

15 Best Manufacturing Business Ideas.

**Innovative Industries
that will Really Boom in
2018**





Introduction

Small and Medium Enterprises (SMEs) are crucial for the economic growth and stability of any country and play a vital role especially for developing countries as they facilitate economic activity and provide employment thus contributing to poverty reduction. In the Indian context they can be considered as the backbone of national economy.

Small and Medium Enterprises (SMEs) contribute to economic development in various ways such as creating employment opportunities for rural and urban population, providing goods & services at affordable costs by offering innovative solutions and sustainable development to the economy as a whole. SMEs in India face a number of problems - absence of adequate and timely banking finance, non-availability of suitable technology, ineffective marketing due to limited resources and non-availability of skilled manpower.



The Micro, Small and Medium Enterprises (MSME) sector contributes significantly to manufacturing output, employment and exports of the country. It is estimated that in terms of value, the sector accounts for about 45 % of the manufacturing output and 40% of total exports of the country.

Indian Micro Small and Medium Enterprises (MSME) sector has emerged as a highly vibrant and dynamic sector of the Indian economy over the last five decades. SMEs not only play crucial role in providing large employment opportunities at comparatively lower capital cost than large industries but also help in industrialization of rural areas. MSMEs are complementary to large industries as ancillary units and this sector contributes enormously to the socio-economic development of the country. The Sector consisting of 36 million units, as of today, provides employment to over 80 million persons.



The Sector through more than 6,000 products contributes about 8% to GDP besides 45% to the total manufacturing output and 40% to the exports from the country. The MSME sector has the potential to spread industrial growth across the country and can be a major partner in the process of inclusive growth.





***Self-Employment Ideas you can start a
Business with Small and Medium
Investment:***



➤ **Acid Washed Granulated Activated Carbon**

The activated carbon is produced for use in ultra-pure water treatment systems requiring low conductivity and exceptionally high purity. This activated carbon is also specifically designed for the removal of heavy hydrocarbons from recovered condensate. The acid washing process removes soluble silica from the matrix of the activated carbon to prevent leaching into the condensate.

Some of the benefits of Acid Wash carbon include Dechlorination of water, better taste, removal of bad odors, removal of color from water, removal of organic substances, etc. Acid wash carbon has extensive internal structure, neutral surface, maximum hardness, extended operational life, high volume activity, and rapid pH stabilization.



Acid wash carbon is used in various applications such as Condensate de-oiling, semiconductor process water, dialysis treatment, point of entry treatment units, and protection of reverse osmosis membranes from chlorine and organic fouling.

Activated carbon is used in various industries for air purification, groundwater remediation, spill cleanup and drinking water filtration. Governments across the globe are offering subsidies for water as well as air purification. These grants coupled with rapid industrialization particularly in regions such as Asia Pacific is forecasted to benefit the overall global market growth.

Activated carbon used in liquid phase accounted for 52% of the overall market. The product aids in the removal of VOCs and chlorine from drinking water. They also assist in the removal of dissolved radon, lead, and odor-causing compounds.



and wastewater treatment. Governments across the globe are investing heavily in water treatment plants to provide their citizens, proper access to clean water. China has invested over USD 4.5 billion in improving the clean water supply.



➤ **Dehydration of Lime Fruit, Dried Lemon, Dry Lemon and Dehydrated Fruit**

Drying or dehydration is a process through which moisture or water content is removed from the food. Removing of water content from food makes them lighter and smaller. It helps in preservation of food for longer period of time. Dehydrated food do not require any refrigeration while preserving at home or at the time of consumption. Moreover, dehydrated food is ideal for preserving seasonal fruits and vegetables. Dehydrated food offer high nutritional value, easy storage properties and availability at low price, which is driving the demand of dehydrate food across the globe.

Dehydrated food market can be segmented on the basis of technology which includes spray dried, freeze dried, vacuum dried, sun dried, hot air dried and others. Traditionally among all these segments sun dried process of dehydration was the major segment in terms of usage by food manufacturers followed by hot air dried process.

However due to the introduction of new technology spray dried is expected to account for largest share in terms of market revenue contribution, followed by freeze dried during the forecast period. Vacuum dried segment is expected to show a consistent growth as compared to others. Limited usage in food products is expected to be the restraining factor for the growth of vacuum dried technology in dehydrated food market in the near future.

The Dried Fruit and Vegetable Production industry has recovered steadily over the past years. Producers benefited from improving economic conditions, as well as shifting consumer preferences. As the economy continued to strengthen, renewed consumer spending helped boost demand for fruit bars, vegetable chips and other mixed snack foods that include dried fruit and vegetable inputs.



➤ **Ferric Chloride Solution**

The ferric chloride test is a traditional colorimetric test for phenols, which uses a 1% iron (III) chloride solution that has been neutralised with sodium hydroxide until a slight precipitate of $\text{FeO}(\text{OH})$ is formed. The mixture is filtered before use. Ferric chloride solution is a colorless to light brown aqueous solution that has a faint hydrochloric acid odor. Highly corrosive to most metals and probably corrosive to tissue. Noncombustible. Used in sewage treatment and water purification.

Ferric chloride is a brownish liquid which has a pungent odor which is similar to that of hydrochloric acid. It also exists in solid lump form or in anhydrous powder form. Ferric Chloride or Iron (III) Chloride is used as a flocking agent in drinking water and waste water treatment in various industries. When small amount of ferric chloride is added in water, ferric hydroxide precipitates and absorbs the suspended impurities.



Ferric chloride is generally used as a concentrated solution with minimum concentration of 40% w/w. Moreover in few industrial applications, ferric chloride is also used in crystalline solid form. Aqueous ferric chloride solution is acidic in nature and corrosive to most metals. Ferric chloride is most commonly produced from chlorine gas and pickling liquors. Moreover, ferric chloride produced as a byproduct of manufacturing titanium dioxide is also used in many industries.

Consumption in the United States is forecast to grow at 1.3% annually during 2016-21. Ferric chloride producers tend to have a regional, rather than a national outlook, because transportation costs are significant.



More than 80% of all ferric chloride is sold in municipal bids, with 53% sold for municipal wastewater applications, and 37% for potable water treatment applications. Industrial water treatment applications account for 6% of consumption, with the remaining 5% sold in NonWater treatment applications, such as electronic and photographic etchants, metal surface treatment, and as a catalyst. Much of the etchant activity has moved to Asia.



➤ **Sindoor, Roli, Bindi & Gulal**

Sindoor is an orange/red colored powder used by the Hindu community for religious and cultural purposes. Married women may wear sindoor in the part of their hair to indicate marriage status. Women may also wear sindoor as a dot or “bindi” on their foreheads for cosmetic purposes, or, along with men, may wear it for religious purposes. The red colour is connected with rajas, one of the three constituents of prakriti (nature) that is sattva, rajas and tamas. These three constituents of prakriti represent goodness, passion and darkness. Each of these is represented by a colour. White colour is for goodness, red is for passion and black is for darkness and ignorance. These three constituents of prakriti are described in Sankhya philosophy of Hindu religion. The red colour of bindi or sindoor represents the passionate aspect of prakriti. The red implies also love, fertility and strength. Sindoor (vermilion) is sublimed mercuric sulfide and is a brilliant red pigment.

Bindi originally is a round mark on the foreheads of Hindu females. Bindi is derived from the Sanskrit word bindu meaning dot or drop. Making a mark on the forehead is a very old tradition among Hindu men and women. The old name for this mark is tilaka. Tilaka is made with coloured earth, ashes of yajna (the fire offering), sandalwood paste or unguent. The term tika or tikka is a distorted form of the term tilaka. The positioning of the bindi in between the eyes is significant. According to the Indian sages, the area between the eyebrows is the seat of latent wisdom. This point between the eyes, known by various names such as Ajna Chakra, Spiritual Eye, and Third Eye, is said to be the major nerve center in the human body. In the Kundalini yoga and Tantric tradition during meditation, the "kundalini" - the latent energy that lies at the base of the spine is awakened and rises to the point of sahasrara (7th chakra) situated in the head or brain. The central point, the bindu, becomes therefore a possible outlet for this potent energy. Gulal also known as Abeer is the traditional name given to the coloured powders used for the typical Hindu rituals, in particular for the Holi festival.

During this festival, which celebrates love and equality, people throw these powder solutions at each other while singing and dancing. Abeer' is made of small crystals or paper like chips of mica. This is usually mixed with the gulal to give it a rich shine. These colors can be used dry, or mixed with water. Colored powder (Gulal) is bought and prepared, long syringes called 'pichkaris' are made ready and water balloons are bought and filled. Gulal powder has always had an important role in Hindu culture and has always been used for religious purposes.



➤ **Hybrid Seed Production, Biotech & Export (Floriculture with Green House)**

The development of hybrid varieties is most important achievement of application of genetics in crop improvement. In the coming years biotechnological tools have to play very crucial role in various ways including development of specific parental lines or hybrids in vegetables. Role of biotechnological tools like micropropagation, molecular markers, another culture, cybridization, induced male sterility and transgenics in the production of specific parental lines or hybrids in vegetables. Micropropagation can be used for maintenance of male sterile lines either controlled by recessive genes (tomato, muskmelon, chilli) or dominant genes (cabbage); maintenance of self-incompatible lines in cole crops and maintenance of hybrids as such through tissue culture. Another culture techniques can be utilized for development of self-incompatible lines in cole vegetables and also to develop inbred lines in cross-pollinated vegetables.



Cybridization is used for single step transfer of cytoplasmic male sterility from potato to tomato by protoplast fusion and generation of noval cybrids in tomato. Induction of male sterility by the use of 'BarnaseBarstar' system of hybrids seed production, is universally applicable for economic hybrid seed production especially in those vegetable crops where male sterility is not available (e.g. okw). Genetic transformation techniques can be used for trait specific transgenic parental lines for hybrids.

Hybrid seeds market is growing at an incremental pace globally. Hybrid seeds are developed after cross pollination among different varieties of same plants. Cross pollination involves transferring the pollen from male to female. The hybrid seeds will produce similar plants, however the next generation seeds from the hybrids could differ in their characteristics. Hybrid seeds have specific characteristics such as pest and disease resistant, can adopt to environmental changes, and helps in enhancing crop productivity.



Clonal propagation and open pollination are alternatives to hybridization. Increase in usage of hybrid seeds with several advanced traits, such as pelleting & seed coatings, biological & mechanical innovations related to farms, an introduction of enhanced hybrid seed varieties, and decline in arable land, and diversification of diets are major factors that drive the market growth globally. Global population is estimated to reach 9 billion by 2050, and is expected to require twice the food, which could be produced from constant land area. More production is anticipated to be accomplished from less land only by using the combination of quality seeds, quality inputs, and enhancing farm practices. Increasing demand for foods owing to rapidly rising global population is one of the major factor fuelling the demand for the product. The land resource is limited and is shrinking over the years, thereby necessitating adoption of methods to enhance crop productivity. Usage of hybrid seeds is considered to be one of the effective method for augmenting crop production.

➤ **Auto Lamps (Auto Tail Lights)**

Automatic headlamps are a modern convenience in many of today's cars. They eliminate the need for the driver to manually switch on or off the headlamps in most driving situations. The names of the automatic headlamp option differ between car manufacturers, but they perform the same service for the driver. A tail light or a tail lamp is the part of the lighting system of a vehicle which is attached in front and at the rear part of the vehicle. They usually come in pairs (left and right). It has different types for different functions.

The signal lights, or turn lights, are parts of the tail lamp assembly. Usually yellow in color because of regulatory standards, these indicate whether the vehicle is going to turn right or left. They are also used during times of emergency. The reverse lights are also parts of the tail lamp assembly to indicate if the vehicle is backing up. The reverse lights automatically turn on when the driver puts the vehicle in reverse shift.



These lights often have the highest illumination in the tail lamp assembly but not as bright as the head lights. India Automotive Lighting Market is expected to garner \$3.1 billion by 2022, registering a CAGR of 5.6% from 2016-2022. Lighting is a vital component in automotive vehicles, playing an important role in automotive safety. The vehicle consists of different lights to increase the visibility in darkness and bad weather conditions along with the increase in conspicuity. The lighting system comprises lighting and signaling devices, which are placed at different locations such as front, rear, side, and interiors. Lighting provides illumination for the driver and helps other vehicle drivers and pedestrians on the road to detect the vehicle's position, direction of movement, and size. It also enhances the aesthetic looks to both interior and exterior parts of the vehicle. The global automotive coatings market is projected to witness a CAGR of 6.31% during the forecast period to reach a total market size of US\$21.006 billion by 2023, increasing from US\$14.551 billion in 2017.



Automotive coating enhances the appearance and durability of automotive and protecting from the harsh environmental condition including acid rain and extreme temperature. Increasing automobile production on account of population growth and rising income levels is expected to aid in market expansion.



➤ **Piston Rings for IC Engines (Cast Iron)**

A piston ring is an expandable split ring used to provide a seal between the piston and the cylinder wall. Piston rings are commonly made from cast iron. Cast iron retains the integrity of its original shape under heat, load, and other dynamic forces. The piston rings, which are also called as compression rings are fit closely in the grooves provided in the piston. These rings are worn out before the wearing of the piston and cylinder wall. These rings form an effective seal and at the same time transmit heat from crown to the cylinder walls. Hence keep the temperature within the workable limit. There should be at least two piston rings in each piston of an internal combustion engine. For the higher capacity engines, there are four or even six piston rings have been used. The number of rings is depending upon the capacity and size of the I. C. Engine. In order to achieve the effective seal against lube oil and high-pressure gases leakage, a great pressure must be exerted, by each ring on the cylinder walls.



Piston assembly is a heart of the IC engine. The piston assembly is composed of five basic components which are piston, piston rings, gudgeon pin, connecting rod and bearings. The piston in general is casted out of aluminium alloys and has the responsibility of take all rigorous forces. The piston is connected to crank through connecting rod pivoting around the gudgeon pin. The piston rings are split rings assembled into the grooves on the outer diameter of the piston. The piston rings is a combination of three rings serving specific purpose in running engine. The top most groove ring is known as compression ring or pressure ring which provide sealing above the piston and prevents the gas leakage from the combustion side. The second or intermediate ring act as lubrication control ring and provides enough lubrication to the compression ring and prevent scuffing. The third ring is known as oil ring or oil control ring, these rings controls the amount of lubricating oil passing up or down the cylinder walls. Also, the piston rings act as a medium to transfer heat generated while combustion and provide overall support to the piston in the cylinder.

There are over 1.5 billion on road vehicles around the world which creates substantial aftermarket opportunities for the piston rings manufacturers. Also, over 110 million vehicle are produced annually among which over 70% are equipped with multi cylinder engines. The global automotive market is growth at a pace ranging between 3.5% - 4.5% annually. Growing automotive sales coupled with growth in population and affordability is anticipated to play a key role in the growth of global piston rings market. Also, piston rings are among the essential components which have the direct influence on the vehicle performance, engine power and efficiency, hence required frequent monitoring as they contribute to around 24% over all friction generated in the engine.



➤ Auto Head Light

A headlamp is a lamp attached to the front of a vehicle to light the road ahead. While it is common for the term headlight to be used interchangeably in informal discussion, headlamp is the term for the device itself, while headlight properly refers to the beam of light produced and distributed by the device. Automatic headlamps are a modern convenience in many of today's cars. They eliminate the need for the driver to manually switch on or off the headlamps in most driving situations. The names of the automatic headlamp option differ between car manufacturers, but they perform the same service for the driver. Their secondary features set one automatic headlamp option apart from the others. Basic automatic headlights work through sensors which detect how much light is there outside. These sensors are located on the dash of the vehicle mostly. The headlights turn on when the sensors detect a certain level of darkness (darkness means the level of light).



The global automotive lighting market size was valued at USD 19.64 billion in 2014. Increasing production and sales of commercial vehicles across the globe are estimated to drive the demand over the forecast period. Technological advancements stimulating by rising concerns about vehicle safety and stringent government regulations are further expected to spur the demand. Additionally, growing population and increasing the purchasing power of consumers across the developing countries are projected to offer lucrative opportunities over the forecast period.



➤ Solder Wire & Flux

Solder wire is an alloy used in the electronics industry for soldering electronic components onto the printed circuit board or two pieces of metal. Solder can be leaded (Sn/Pb) or lead-free (with no lead). Both leaded and lead-free solder can be either flux cored (with flux in the core of the wire) or solid (with no flux in the core.) Solder flux is a kind of chemical used by electronic companies to clean surfaces of PCB before soldering electronic components onto the board. The main function of using flux in any circuit board assembly or rework is to clean and remove any oxide from the board prior to soldering. Solder flux helps to deoxidize metals (copper tracks on the PCB and leads of electronic components) and helps better soldering and wetting. In metallurgy, a flux (derived from Latin fluxus meaning “flow”) is a chemical cleaning agent, flowing agent, or purifying agent. Fluxes may have more than one function at a time. They are used in both extractive metallurgy and metal joining.



When solder melts and forms a joint between two metal surfaces, it actually forms a metallurgical bond by chemically reacting with the other metal surfaces. A good bond requires two things, a solder that is metallurgically compatible with the metals being bonded and good metal surfaces, free of oxides, dust, and grime that prevent good bonding. Grime and dust can easily be removed by cleaning or prevented with good storage techniques. Oxides, on the other hand need another approach.

The Solder Wire market is expected to increase due to growth in GDP per-capita, international tourism, etc. The global Solder Wire market is expected to grow at a healthy rate during the forecast period (2018-2023). The growth is expected on account of many factors, such as an increase in disposable income, increasing international inbound and outbound tourism and aging demography. Global solder wire market is anticipated to grow at a CAGR of 5.6% by 2023.



Global Solder Wires Market 2018 analyses the crucial factors of the Solder Wires market based on present industry situations, market demands, business strategies adopted by Solder Wires market players and their growth scenario.

Metal paste is mainly used to fill the dent over any metallic and solid surface and also for fixations of granites and other allied industries. Ready-to-use metal repair putty, dent filler and patching compound. Durable metal filler for fast, permanent repairs. A unique, quality problem-solver, Lab-metal ready-to-use repair compound spreads like paste and hardens quickly into metal. A metal paste, in which a filler mainly composed of metal is mixed with good dispersibility, is manufactured with good productivity at a low cost without generating a foil of the metal. A paste-like material (referred to as a paste material hereafter) containing a metal filler is fed into a gap between a pair of rotating whetstones which are relatively rotated while facing with each other having a specified gap there between, to pass and discharge therein.



The paste material is thus kneaded and dispersed. In addition, the paste material is kneaded and dispersed by suppressing the generation of a metal foil, adjusting the gap to a specified interval dg and feeding the paste material into the interval while applying thereon a predetermined positive pressure and/or negative pressure.





➤ **Wheat Germ Oil**

Wheat Germ Oil is extracted from the germ of the Wheat kernel, which makes up only 2- 3% by weight of the kernel. It is a Refined Vegetable Oil that contains a high level of natural vitamin E which is a natural antioxidant, and high levels of unsaponifiable fraction. Its fatty acid composition supplies a high content of essential fatty acid that promotes the regeneration of cells. Wheat germ oil is particularly high in octacosanol - a long- chain saturated primary alcohol found in a number of different vegetable waxes. Wheat germ oil is an ideal ingredient that is easily incorporated in all kinds of cosmetics from rinse-off to leave-on products. A great choice for dry, mature skin, keeps skin supple during pregnancy. Ideal for overall body care, and especially beneficial for moisturizing, rejuvenating and protecting dry and mature skin.



The global wheat germ oil market major driving factors are increasing demand of wheat germ oil in cosmetics industry for skincare products coupled with rising number of wheat germ oil based dietary supplements are expected to significantly increase the revenue contribution of the global wheat germ oil market over the forecast period. Many consumers are using wheat germ oil in cooking as it is easily available and affordable. Wheat germ oil is mainly used in medicinal supplements as it lowers blood pressure and cholesterol levels. Wheat germ oil contains essential fatty acids that are necessary for cell regeneration and helps in maintaining immune system of the body. Hence, the global Wheat Germ Oil market is expected to observe robust growth over the forecast period.

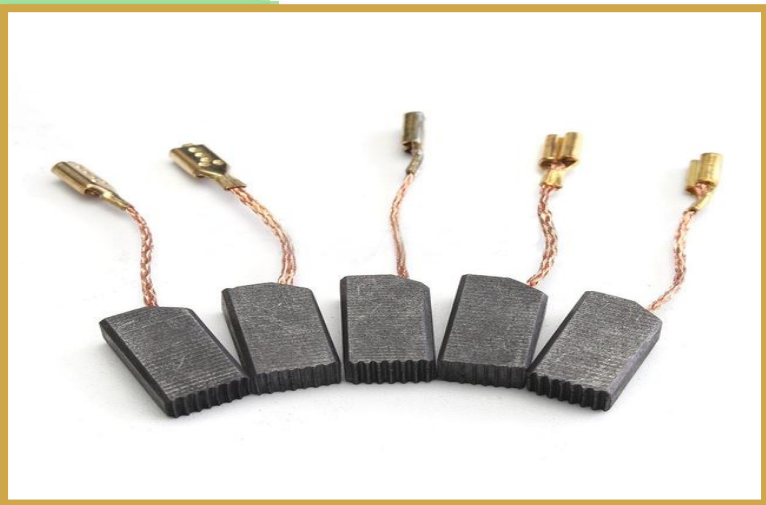


➤ Carbon Brushes

A carbon brush, also known as a motor brush, is the small part of the motor that conducts electrical current between the stationary wires (stator) and the rotating wires (rotor) of a motor or generator. The brush is typically made up of one or more carbon blocks and can come with one or more shunts or terminals. A motor generally contains more than one carbon brush to conduct electrical current. The brushes are categorized into five brush-grade families, each of which is suited for different kinds of motors and applications. A carbon brush has three operating parameters: mechanical, electrical, and physical/chemical.

Carbon Brush market is expected to register a steady year-on-year growth throughout the forecast period.

The steady economic growth in developing regions of the globe, especially of the countries in Asia Pacific region coupled with steady industrial growth in these regions is expected to in turn fuel the demand for carbon brushes during the forecast period. Moreover, growth of global carbon brush market is expected to be driven primarily by the growth in demand for these from automotive industry. Also, another major application segment where these carbon brushes are used is household appliances, as such, the growth in demand for household appliances is likely to translate into growth in demand for carbon brushes during the forecast period.



➤ **Electric Arc Furnace**

An electric arc furnace (EAF) is a furnace that heats charged material by means of an electric arc. Industrial arc furnaces range in size from small units of approximately one ton capacity (used in foundries for producing cast iron products) up to about 400 ton units used for secondary steelmaking. Electric Arc Furnace means an extremely hot enclosed space, where heat is produced by means of electrical arcing for melting certain metals such as scrap steel without changing electro-chemical properties of the metal. Electric arc is produced between the electrodes. This electric arc is used for melting the metal. The arc furnaces are used to produce mini steel structural bars and steel rods. The electric furnace is in form of a vertical vessel of fire brick. There are mainly two types of electric furnaces. They are alternating current (AC) and direct current (DC) operated electric furnaces.



The Global Electric Arc Furnaces Industry focuses on global major leading industry players providing information such as company profiles, product picture and specification, capacity, production, price, cost, revenue and contact information. The Electric Arc Furnaces market is based on a calculative measure that is considered in the collation and evaluation of the information required for Electric Arc Furnaces market projections. It focuses on end number of technics and procedures used in the Electric Arc Furnaces market management process. As well, it identifies the requirement of information essential in the competitive market of Electric Arc Furnaces to remain updated in the changing world, which helps the decision makers to glance at the Electric Arc Furnaces market situation and thereby consider the points that can enhance the market profitability, global Electric Arc Furnaces market stability, and market development. The global Electric Arc Furnaces market and offers market volume (US\$ million) and CAGR over the forecast period 2018 to 2023 taking into account 2017 as the base year.



Oil refineries, processing plants, pipelines, storage farms, LPG/LNG plants, and offshore platforms all utilize or produce a wide range of hazardous combustible and toxic gases. In addition, the processes involved in each can produce nontoxic gases, which when accumulated in high concentrations, depletes oxygen causing a hazardous condition to personnel who occupy the area without proper protection. Moreover, there are several hazardous gases that are the product of mining and mineral processing. These products, which include gases, such as methane (CH₄), carbon monoxide (CO), hydrogen sulphide (H₂S), and hydrogen cyanide (HCN), require continuous monitoring in order to protect the well-being of mining equipment and personnel. The US, in 2016, had faced a gas leak which was nearly four-month leak in the North of Porter Ranch, which spewed nearly 100,000 metric tons of methane from a ruptured well at the 3,600-acre Aliso Canyon storage facility run by the Southern California Natural Gas Co.



like one that caused thousands of sickened residents to flee their homes around Porter Ranch. Thus, the incidences of gas leaks leading to explosions has emphasised on the need to adopt gas sensors and detectors across work intensive industries, such as Manufacturing, Mining, and Oil & Gas.



➤ **Gas Detectors of L.P.G.**

A gas detector is a device that detects the presence of gases in an area, measures and indicates the concentration of certain gases in air via different technologies, often as part of a safety system. When facing unknown environmental hazards invisible to the body's senses, a gas detector is the first line of defence for worker safety and the portable gas detectors are often part of personal protective equipment (PPE) mandated by businesses and designed to keep personnel safe. Rising demand for ensuring the workers' safety across various industries such as oil and gas, mining, food processing, increasing need for monitoring combustible gases and chemical agents in oil & gas industry, and several governmental regulations and norms pertaining to precautionary measures for maintaining the health of workers and employees in manufacturing industries are bolstering the demand for gas detectors. Conversely, intense competition and low-profit margins may impede the market growth.



Nevertheless, rising investments by companies in smart gas detectors by focusing on the development of innovative wireless technology, such as Bluetooth, WI - Fi, WiMAX, ZigBee, and rapid integration of big data and artificial intelligence is stoking the demand for gas detection systems.

The global gas detectors market was valued at USD 2175.9 million in 2017, and is expected to reach a value of USD 2731.6 million by 2023, at a CAGR of 3.73%, during the forecast period (2018 - 2023). The regions considered in the scope of it include North America, Europe, Asia Pacific, Latin America, and Middle East & Africa.



➤ **Peppermint Oil**

Peppermint oil is derived from extraction of oils from flowers and stem of peppermint herb. The steam distillation process is used for extraction of oil. Peppermint oil is used medicines due to its therapeutic benefits. The healthcare uses of peppermint oil include digestive system stimulation and for soothing headaches, muscle pain, cold, sinus etc. They are used extensively in oral care products because of cooling effect and its ability to kill bacteria responsible for bad breath. Peppermint oils are also for flavoring in food and beverage industry. And they are also used as safe natural food additive. Peppermint oil is an aromatherapy ingredient, which helps in stimulation and relaxation of body. It acts as skin toner in cosmetic products.

The rise in demand for aromatherapy treatments is expected to drive the growth of global peppermint oil market. The increasing consumer awareness regarding the use of safe natural and organic products is expected to boost the growth of global peppermint oil market.

asing disposable income and awareness of personal care has resulted in demand for oral care and confectionery products in rural areas, which is a major driver for the growth of global peppermint oil market. The recent outbreak of Zika virus and diseases such as dengue and malaria has increased the demand for natural mosquito repellents and the use of peppermint oil in these repellents is expected to increase the demand. The fragrance ingredients and essential oils market recorded high growth rate, which is expected to increase the demand for peppermint oil.



➤ **Chromic Acid**

The term chromic acid is usually used for a mixture made by adding concentrated sulfuric acid to a dichromate, which may contain a variety of compounds, including solid chromium trioxide. This kind of chromic acid may be used as a cleaning mixture for glass. Chromic acid may also refer to the molecular species, H_2CrO_4 of which the trioxide is the anhydride. Chromic acid features chromium in an oxidation state of +6 (or VI). It is a strong and corrosive oxidising agent. Chromic acid is a strong acid that can be prepared in a few steps. There are more steps involved in the proper disposal of chromic acid. In this lesson, we will discuss how to prepare a solution of chromic acid, how to safely dispose of it and hazards associated with it. Chromic acid is an intermediate in chromium plating, and is also used in ceramic glazes, and colored glass. Because a solution of chromic acid in sulfuric acid (also known as a sulfochromic mixture or chromosulfuric acid) is a powerful oxidizing agent, it can be used to clean laboratory glassware, particularly of otherwise insoluble organic residues.

This application has declined due to environmental concerns. Furthermore, the acid leaves trace amounts of paramagnetic chromic ions — Cr (III) — that can interfere with certain applications, such as NMR spectroscopy. This is especially the case for NMR tubes.

The global Chromic Acid market is valued at USD XX million in 2018 and is projected to reach USD XX million by the end of 2022, growing at a CAGR of XX% during the period 2018 to 2022.





Tags

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Major Queries/Questions Answered in Our Report?

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

- 5. What is the total project cost for setting up the plant?**
- 6. What are the operating costs for setting up the plant?**
- 7. What are the machinery and equipment requirements for setting up the plant?**
- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
- 9. What are the requirements of raw material for setting up the plant?**

- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**
- 11. What is the Manufacturing Process of the plant?**
- 12. What is the total size of land required for setting up the plant?**
- 13. What will be the income and expenditures for the plant?**
- 14. What are the Projected Balance Sheets of the plant?**

- 15. What are the requirement of utilities and overheads for setting up the plant?**
- 16. What is the Built up Area Requirement and cost for setting up the plant?**
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?**
- 18. What are Statistics of Import & Export for the Industry?**
- 19. What is the time required to break-even?**

- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**
- 27. What is the Market Study and Assessment for setting up the plant?**
- 28. What is the Plant Layout for setting up the plant?**



Reasons for Buying Our Report:

- **The 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**
- **The report provides vital information on the product like it's characteristics and segmentation**
- **The report helps you market and place the product correctly by identifying the target customer group of the product**



- **The 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**



Free Instant Online Project Identification and Selection Service

Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....[Read more](#)



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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.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



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



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- *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



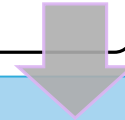
Thorough analysis of the project



Economic feasibility study of the Project



Market potential survey/research



Report Compilation



Contact us

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