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Profitable Business Opportunities for Production of

I.V. Fluids (BFS Technology).

Production of Intravenous Solutions,
Intravenous Fluids Industry.







Introduction

Intravenous <u>fluids</u> are fluids that are intended to be administered to a patient intravenously, directly through the circulatory system. These fluids should be sterile to protect patients from injury, and there are variety of different types on the market to be used. Many companies manufacture packaged intravenous fluids, as well as products which can be mixed with sterile water to prepare a solution for intravenous administration.





The <u>intravenous</u> route is that the quickest way to deliver medications and fluid replacement throughout the body, because they're introduced directly into the circulation. Intravenous medical care could also be used for <u>fluid</u> volume replacement, to correct electrolyte imbalances, to deliver medications, and for blood transfusions.





Intravenous fluids is broken into two broad groups. Crystalloids similar to saline solutions contain a solution of molecules which might dissolve in water. Once crystalloids are administered, they have an inclination to create low osmotic pressure, allowing fluid to move across the blood vessels, and this could be linked with edema. Colloids contain particles that don't seem to be soluble in water, and that they produce high osmotic pressure, attracting fluid into the blood vessels. Blood is an example of a usually administered intravenous colloid.





Changes in fluid volume will cause changes in blood pressure, and a series of cascading reactions within the body. However, intravenous <u>fluids</u> don't seem to be always the solution. If the incorrect fluid is administered, too several fluids are given, or a patient isn't monitored, giving fluids will actually make matters worse. For example, a patient may develop severe hydro's which may take a while to resolve because the body tries to express the excess water.

Related Projects: - Pharmaceutical, Drugs, Fine Chemicals, Bulk Drug

Intermediates,





Uses and Applications

- ➤ There are four main ranges of application of highly specialized intravenous infusion solutions:
- > Treatment of discarded water and electrolyte metabolism, especially in severe cases.
- > Therapy of acid base in balances.
- ➤ The volume substitution and volume replacement in surgery of accident victim suffering blood loss.
- > Paratral nutrition for severally ill and post-operative patients.





- Aqueous isotonic injection (5%) of dextrose is given as intravenous injections to increase the column of circulating blood in the shocks and hemorrhages and to counteract dehydration. When it is desired to replace excessive salt loss also glucose is injected along with sodium chloride.
- ➤ Dextrose solution is used during postoperative period when sodium extraction is reduced.
- ➤ Dextrose solution with concentration of 10-15% is used as diuretic for increase in urine flow.
- ➤ <u>Dextrose</u> solutions of 5% normal saline are used for restoring <u>fluid</u> volume in circulation of an emergency as in accidents with hemorrhage.
- Saline solution is used when large amount of sodium has been lost by vomiting or by gastric or intestinal duodenal aspiration or through an alimentary fistula.



- ➤ Dextrose monohydrate is used as supplement to cow's <u>milk</u> in part of feeding.
- ➤ Hypertonic dextrose solution (25-50%) is in <u>medical</u> treatment partly because they are believed to strengthen heart muscles. Hypertonic solutions are used in intravenous injection to relieve intractable pressure in-patient with hydrocephalus and meningitis.





Advantages of BFS Technology:

- ➤ Blow-fill-seal technology enables the manufacture of preservative-free single-unit doses. Preserved I.V.es are recognized as probably harmful to the sensitive mucosae of the eyes, nose, and lungs, therefore this is often a huge profit to sensitive patients.
- Another advantage of unit-doses is that they make sure that the patient takes the correct quantity of product, especially once coping with highly potent compounds, i.e. those therapeutically active at a coffee concentration.
- > Sterile unit-doses are portable and easy to use individually, excellent properties for today's active lifestyles. Blow-fill-seal (BFS) single doses are an ideal solution for use in ophthalmology, respiratory diseases, rhinology, and antisepsis and wound care.



➤ Blow-fill-seal technology reduces personnel intervention making it a lot of robust method for the aseptic preparation of sterile <u>pharmaceuticals</u>. BFS is used for the filling of vials for parenteral preparations and infusions, eye drops, and inhalation product. Usually the <u>plastic</u> containers are made of polyethylene and polypropylene. Polypropylene is a lot of usually used to type containers that are more sterilized by autoclaving as polypropylene has greater thermo stability.

Related Books: - Pharmaceutical, Drugs, Proteins Technology

Handbooks





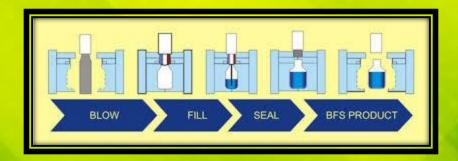
- ➤ Blow Fill and Seal technology is especially used for <u>pharmaceutical</u> solutions. The examples of <u>pharmaceutical</u> solutions that may be repacked are injectable solutions, antibiotics, ophthalmological drops, suspensions, infusion solutions, solutions for dialysis, solutions for irrigation and solutions for hemofiltration.
- The basic concept of BFS is that a container is formed, filled, and sealed in a continuous process without human intervention, in a sterile enclosed area inside a machine. Thus this technology can be used to aseptically manufacture sterile <u>pharmaceutical</u> liquid dosage forms.





Features:

- 1. 100% film utilization: No waste edge between bags, reducing both material and energy consumption.
- 2. Special I.V. bag design: each bag saves 10mm film than others.
- 3. Reliable heating and welding system: Leakage rate less than 0.03%.
- 4. Quick changeover: 0.5-1 hour to switch from one size to another.
- 5. Stable transmission system: only needs 1 control system, 1 HMI and 1 operator.





- 6. Safe filling nozzle: No solution overflows, no particles generation.
- 7. Auto faulty rejection system detected by the machine.
- 8. Production line length is reduced by 1/3, both workshop and air conditioning and cleaning area are reduced by 1/3, greatly reducing the initial investment and future running cost.
- 9. Simple structure, more stable and reliable performance.





Market Outlook

Intravenous (IV) solutions are fluids that are intended to be administered to a patient directly into the venous circulation. These fluids are sterile fluids that protects patients at the time of significant dehydration. There are various kind of IV solutions on the market to be used within the market. Several companies manufactures repacked intravenous fluids or product or compounds which may be mixed with sterile water to prepare a solution for intravenous administration.





Technologies utilized in the production of <u>IV fluids</u> are Blow-Fill-Seal (BFS) Technology and type fill seal (FFS) technology. BFS and FFS are a variety of advanced aseptic manufacturing technique, in which the container is made (in case of BFS and in FFS pouch is formed), filled, and sealed in one continuous, automated system. A primary advantage of these technologies is to reduce human intervention, which is able to cut back the risk of microbial contamination and foreign particulates. Thus, these technologies are used to aseptically manufacture sterile <u>pharmaceutical</u> liquid.

Related Videos: - Production of I.V. Fluids (Saline and Dextrose)

IV Fluids (FFS) Technology

I.V. (Intravenous Liquids) Fluids Manufacturing Unit.



The primary costumers for these manufacturing units are Hospitals, Clinics, Dialysis centers, Home care settings. The global Intravenous Fluid market size was valued at US\$ 8,372.0 million in 2019 and is expected to witness a CAGR of 6.1% over the forecast period (2019 – 2027). The basic function of <u>I.V. fluids</u> is to replenish body fluids. It can also be used in the treatment of electrolyte metabolism, especially in severe cases, therapy of acid-base in balances, the volume substitution and volume replacement in surgery of accident victims suffering blood loss. It can be used as parenteral nutrition for severally ill and post-operative patients.





The emergence of the <u>IV Fluid</u> market is attributed to the fast-growing geriatric population and therefore the presence of deficiency disease within the old and pediatric population. Increasing launches and regulative approvals for intravenous Fluid injection is expected to drive the growth of the worldwide intravenous fluid market. Launches of latest intravenous fluid injections for the treatment of assorted diseases similar to dehydration, gastrointestinal diseases are expected to drive the intravenous fluid market growth.





The growth of the worldwide intravenous solutions market is driven by several factors. The increasing incidence of gastrointestinal disorders, diabetes, and cancer is one in every of the most important factors that are expected to increase the rate of adoption of intravenous solutions among customers. The rising popularity of intravenous vitamin c <u>medical</u> care in cancer treatment is one in all the most important trends in the intravenous solutions market. The intravenous <u>vitamin c</u> solution has been observed to possess an increased toxicity to cancer cells and improve the patients' quality of life.





Intravenous fluids are extensively used to treat electrolyte imbalances, maintain fluid balance, and replace fluid losses. These fluids are distributed in volumes starting from 25-1,000 milliliters and are on the market in either plastic bags or glass bottles. A complete mixture of all essential nutrients is additionally on the market in multi-chamber bags, and these bags are gaining immense popularity among various end-users.

Related Videos: - https://bit.ly/2UI2SEL





Demand & Market Growth Rates of

I.V. Fluid Sets in India

Past and Future Year	Bottles in Million
2015-16	2885
2016-17	3210
2017-18	3570
2018-19	3945
2019-20	4375
2024-25	7200



Key Players:-

- ➤ Abaris Healthcare Pvt. Ltd.
- ➤ Ahlcon Parenterals (India) Ltd.
- > Axa Parenterals Ltd.
- > Infutec Healthcare Ltd.
- ➤ Kokad Pharmaceutical Laboratories Ltd.
- ➤ Parenteral Surgicals Ltd.
- ➤ Pharmazell (India) Pvt. Ltd.



Project at a Glance

COST ESTIMATION

Six Cavity 500 ml Bottles : 39,600 Bottles per Day

Eight Cavity 500 ml Bottles : 30,800 Bottles per Day

Cost of Machinery : Rs. 46,50,0000



Major Queries/Questions Answered in the Report?

- 1. What is I.V. Fluids (BFS Technology)
 Manufacturing industry?
- 2. How has the I.V. Fluids (BFS Technology)
 Manufacturing industry performed so far and how
 will it perform in the coming years?
- 3. What is the Project Feasibility of I.V. Fluids (BFS Technology) Manufacturing Plant?
- 4. What are the requirements of Working Capital for setting up I.V. Fluids (BFS Technology)

 Manufacturing plant?



- 5. What is the structure of the I.V. Fluids (BFS Technology) Manufacturing Business and who are the key/major players?
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- 8. What are the machinery and equipment requirements for setting up I.V. Fluids (BFS Technology) Manufacturing plant?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up I.V. Fluids (BFS Technology) Manufacturing plant?
- 10. What are the requirements of raw material for setting up I.V. Fluids (BFS Technology) Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up I.V. Fluids (BFS Technology) Manufacturing Business?
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- 13. What is the total size of land required for setting up I.V. Fluids (BFS Technology) Manufacturing plant?
- 14. What will be the income and expenditures for I.V. Fluids (BFS Technology) Manufacturing Business?
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- 23. What are the Profitability Ratios of I.V. Fluids (BFS Technology) Manufacturing Project?
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- 25. What are the Projected Pay-Back Period and IRR of I.V. Fluids (BFS Technology) Manufacturing plant?
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Reasons for Buying our Report:

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



- 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 I.V. Fluids (BFS Technology)." provides an insight into I.V. Fluids (BFS Technology) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of I.V. Fluids (BFS) Technology) project. The report assesses the market sizing and growth of the Indian I.V. Fluids (BFS Technology) 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 I.V. Fluids (BFS Technology) sector in India along with its business prospects. Through this report we have identified I.V. Fluids (BFS Technology) project as a lucrative investment avenue.



Tags

#IVFluids #IntravenousFluids #Fluid #ivbottles #Intravenous #IVtherapy #businessopportunity #projectreport #DetailedProjectReport #businessconsultant #businessfeasibilityreport #BusinessPlan #startyourbusiness #investmentopportunity #growyourbusiness #startups #pharmaceutical #pharma #pharmaceuticalbusiness #Pharmacy #PharmaceuticalReport #pharmaceuticalprojects #therapy#COVID—19 #intravenoustherapy



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Production of I.V. Fluids (BFS
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Production of Intravenous Solutions,
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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

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



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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.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects......Read more



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886,

Mobile: +91-9811043595, 8800733955

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

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- 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

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u>, <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886,

Mobile: +91-9811043595, 8800733955

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

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