

# **How to Manufacture**

## **Blood Bags**

**Flexible PVC Blood Bags,**

**Blood Collection Bag**

**(Medical and Surgical**

**Disposable Products)**

# Introduction

Blood bag systems are the fundamentals for worldwide blood supply by standard blood donation. More than 90 percent of all blood donations are processed in these systems that have up to six different bags with variable functions.

Disposable plastic blood bags refer to the biomedical devices that are used for collection, storage, transportation, and transfusion of blood and its components. Globally, the disposable plastic blood bags market is witnessing significant growth due to increasing prevalence of blood related disorders and advancement in the technology.

In addition, growing aging population and rising government initiatives in the field are driving the disposable plastic blood bags market. There are different types of disposable blood bags based on the need of blood infusion; single blood bag, double blood bag, triple blood bag, quadruple blood bag and transfer blood bag. A blood bag package consists of collection tube, needle, needle cover, and a clamp. The disposable plastic blood bags have replaced the usage of glass bottle for collection and storage of blood and blood components. Disposable plastic blood bags also help in the separation of blood components, such as platelets, plasma and cryoprecipitate that are used to treat a range of blood disorders.

**Increase in the healthcare facilities will further act as a driver for the growth of medical devices sector in India. The blood bag market is expected to grow further in the coming years owing to continuous developments and rising demand for better blood collection technology. The global disposable plastic blood bags market is estimated at USD 2,44,286.8 thousand in 2014. It is likely to grow with a CAGR of 9.1% and reach USD 4,13,084.8 thousand in 2020.**



Medical and surgical device manufacturers worldwide produce a multitude of items that are intended for one use only. The primary reason is infection control; when an item is used only once it cannot transmit infectious agents to subsequent patients. Like medicines and other health technologies, they are essential for patient care – at the bedside, at the rural health clinic or at the large, specialized hospital.

The demand of these goods is not only because of their “one time use” property but also due to the hygienic methods adopted to produce them. From manufacturing to Marketing, production of disposable goods is stacked with numerous standards and regulations. This book includes the basic manufacturing method and labeling requirements, required for the bulk production of such life saving devices.

General medical disposables that are being in demand in domestic as well as in international market includes: medical gloves, syringes, gowns, catheters, blood transfusion units and so on.

The information provided is not only confined to the different methods involved in the manufacturing of medical disposables but also describes the raw material used and other information related to product, which are necessary for the manufacturers knowledge.



The details given will be very good for an individual/entrepreneur who is willing to invest in the field of medical disposables.

The main demand of medical disposables are, nowadays not limited to the super specialty hospitals but is also continuously increasing in rural hospitals and clinics. The work provides an idea to reader about the final product, hygiene, safety, packaging, uses, manufacturers and suppliers of the machinery, raw material involved in the processes etc.

The book covers various aspects concerned with the disposable medical devices and presents an overview of the processes involved with their machineries and specifications. The work provides the complete details of the suppliers and manufacturers with machinery photographs for better understanding of the reader.

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# Niir Project Consultancy Services (NPCS)

can provide **Process Technology Book on Medical and Surgical Disposable Products**  
*(Blood Bags, Plastic Gloves, I.V. Cannula, Infusion Set, Gowns, Masks, Catheter, Cotton and Bandage, Surgical Wear, Syringes)*

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- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

# Sectors We Cover Cont...

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- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitability Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

# Sectors We Cover Cont...

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

# Sectors We Cover Cont...

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

# Sectors We Cover Cont...

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- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
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- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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