## **Disposable Products Manufacturing Handbook**

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Disposable Products Manufacturing Handbook

(Plastic Cups, Cutlery, Paper Cups, Banana Leaf Plates, Facial Tissues, Wet Wipes, Toilet Paper Roll, Sanitary Napkins, Baby Diapers, Thermocol Products, PET Bottles)

Everyday life products manufacturers worldwide produce a multitude of items that are intended for one use only. A disposable is a product designed for a single use after which it is recycled or is disposed as solid waste. The term often implies cheapness and short-term convenience rather than medium to long-term durability. The term is also sometimes used for products that may last several months distinguish from similar products that last indefinitely.

The fast moving life and modernization simultaneously lead to the necessity of disposables in one's life. One cannot wash utensils all the time, neither can afford to arrange fine and good cutlery of glass or steel in a party for the guest. At such times, people rush for the disposables available in the market with variety of colors and designs.

For a manufacturer, to produce disposables is a good deal keeping in view the present demand and growth in the market. This handbook is a complete well to do package for a layman to understand the basic steps to be followed for setting up a plant for a particular disposable product. The book contains raw material details, product manufacturing process, machinery details, images with raw material and machinery suppliers.

The Disposable Products Manufacturing Handbook is about producing Plastic Cups, Cutlery, Paper Cups, Banana Leaf Plates, Facial tissues, Wet Wipes, Toilet Paper Roll, Sanitary Napkins, Baby Diapers, Thermocol Products, PET Bottles that are used by masses in their day to day life. This well-established text provides a comprehensive coverage of the manufacturing processes adopted to manufacture various disposable products. It gives a holistic view of products produced, which has inputs from diverse fields. The book discusses the importance and objectives of processes and material used for the production of disposable products. Many examples have been provided to illustrate the concepts discussed.

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- Uses Strength, Durability, Comfort, Safety
- Applications of PS

**Chemical Properties** 

Packaging Appliances **Consumer Electronics** Construction Medical Other Degradation Biodegradation Incineration Forms Produced Sheet or Molded Polystyrene **Disposable Polystyrene Razor** Foams **Expanded Polystyrene Extruded Polystyrene Foam** Fused Cell Expanded Polystyrene Foam Copolymers **Oriented Polystyrene** 

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Hot Melt & Polyextruded Adhesive **Pressure Sensitive Adhesive** Silicone Release Paper Specifications of the Raw Materials Wood Pulp Non-Woven Fabric Silicone Release Paper Hot Melt Process of Maufacture of Sanitary Napkins (A) Preparation of Cotton Lint Sliver (1) Cotton Opening (2) Lapping (3) Carding (4) Draw Frame (5) Tissue Paper Wrapping (B) Manufacture of Sanitary Napkins (1) Cone Winding (2) Knitting & Insertion of Tissue paper Wrapped Sliver (3) Cutting & Looping of Both Ends of Sanitary Napkins (4) Packing **Process Flow Sheet for Sanitary Napkins Disposable Diaper Machine Photographs** Full Servo Baby Diaper Making Machine **Specifications** Full Servo Pull-Up Baby Diaper Machine **Specifications** Main Technical Parameter Main Function Features Sanitary Napkins Machinery Photographs Fast & Easy Packing Wing Style Sanitary Napkin Equipment **Equipment Functions** Structure & Configuration Main Technical Parameter Fast-Easy Packing Women Sanitary Pad Machine Function & Assemble Parts Structure & Character Main Technical Parameter Sanitary Napkin Production Line Main Machine Crusher Model: Multiple-Function Machine for Sanitary Napkin Main Production Line **Specifications** Suppliers of Plant and Machinery (For Baby Diapers) Suppliers of Raw Materials Suppliers of Plant and Machinery (For Sanitary Napkins) **Raw Materials Suppliers** 

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Emission Habitat Loss Trees Used Lids **Uses & Applications** Per Case Contents Measurements Manufacture **Process Flow Chart** Other Processes 1. Paper Cup Manufacturing Process **Cup Forming Process** 2. Paper Cup Making Machine Technical Data Complete Production Line for Paper Cup Forming Flow Chart 1. High Speed Extrusion Laminating Machine Process 1 2. Four Color Flexographic Printing Machine Process 2 3. Computerized Micro-Gap Flat Creasing and Die Cutting Machine Process 3: Cut the Printed Roll Paper into Small Pieces 4. High Dpeed Paper Slitting Machine Process 4: Split the Big Roll PE-Coated Paper into Small Roll Paper 5. Middle Dpeed Paper Cup Forming Machine Machinery with Specifications

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- D. 2nd Extruder
- E. Cooling System
- F. Hauling-off System
- G. Winding Device
- 2. Automatic Vacuum Forming Machine
- Components
- 3. Double Worktables Hydraulic Cutting off Machine (PLC controlling)
- 4. Crusher
- 5. Recycling System
- For EPS Glass & Cups
- A. Material expander: (1 set)
- B. Dryer: 1set
- C. Crusher: 1set
- D. Central System of Sending Material: 1set
- E. Foaming Machine: 4 sets
- F. Other Assistant Equipments
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#2 – Convenience Problems #1 - The Vast Majority of Plastic Cutlery cannot be Recycled #2 – It creates Waste Properties of Plastic Cutlery Items Uses of Disposable Plastic Cutlery Items Manufacturing Process **Disposable Plastic Cutlery Items Basic Raw Material Used Basic Plant and Machineries Required** Step 1: Loading Step 2: Liquification Step 3: Mould Loading Step 4: Moulding Step 5: Packaging **Product Specification Process Flow Diagram Plant & Machinery Details Injection Moulding Machine** Component List for Injection Moulding Machine **Technical Parameter** Types of Machine **Spare Parts** Mould for the Production of Plastic Spoons **Cutlery Packaging Machine Product Description** Scope of Application Features **Universal Machinery** Manufacturing Factory 1 Manufacturing Factory 2 Packaging Machine **Rotary Packing Machine** I. Main Performance and Structure Features II. Application **III.** Optional Devic **IV.** Specification Suppliers of Plant & Machineries

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## About NIIR

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