

# ***Chilli Oleoresin***

**Paprika Oleoresin, Paprika Extract, Oil-soluble Extract from the Fruits Of Capsicum Annuum, Capsicum Frutescens, Oleoresin Capsicum, Chilli Extract, Spice Oleoresin, Flavouring Agent, Coloring Agent, Chili Oleoresin, Chilly Oleoresin**

**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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis**

# Introduction

**Paprika Oleoresin is a deep red colored, semi viscous liquid extracted from dried red pepper or paprika. It draws its deep red color from various Carotenoids present in Red Pepper. Paprika Oleoresin is a natural extract without any antioxidant. it is highly sensitive to light, heat and air. The paprika oleoresins are produced by solvent extraction of dried, ground red pepper fruits,**

using a solvent-system compatible with the lipophilic/hydrophilic characteristics of the extract sought and subsequent solvent-system removal. The solvents most commonly used for paprika oleoresin extraction are trichloroethylene, ethylacetate, acetone, propan-2-ol, methanol, ethanol and n-hexane. Paprika powder originally was retailed and the product used in the kitchen only.

**Now the product finds a huge market for applications in the food ingredient industry; mainly meat processing, sauces and snack food segments. Since the 1960's requirements arose for the standardization of application in the food ingredient industry. Methods were developed to measure the concentration of the pigments, carotenoids, in paprika powder.**

**Capsaicin is used as an analgesic in topical ointments, nasal sprays (Sinol-M), and dermal patches to relieve pain, typically in concentrations between 0.025% and 0.25%. It may be applied in cream form for the temporary relief of minor aches and pains of muscles and joints associated with arthritis, backache, strains and sprains, often in compounds.**

**The major driving factors for oleoresins market is increasing popularity and food & beverage industries on global level. Strong economical growth coupled with rising disposable income and changing lifestyle has been resulted into growing demand for spicy food in India.**

**Global paprika market is expected to witness strong growth over the forecast period on account of increasing demand for spice oils from food industry.**

**Rising consumer awareness towards health benefits of paprika over traditional raw spices is further expected to drive the market over the projected period. Demand for specialty products has been increasing on account of growing consumer preference towards health benefit products in addition to coloring and flavoring properties, which is expected to open several growth opportunities for paprika market over the forecast period.**

**Increasing demand for coloring foodstuff is one of the key driving factors for the market. Demand for paprika is also increasing owing to its special coloring properties which is due to carotenoid pigments content, which add major health benefits in wide range of food products.**

## Applications:

- 1. Flavouring Agent:** Due to its pungent effect it is used to provide flavour in food products.
- 2. Coloring Agent:** Coloring of food, eatables and medicines is common application where chilli oleoresin gives a range of red color.
- 3. Safety Gear:** It is used in making safety gear for girls and can make a person blind for few minutes.
- 4. Preservative:** Capsaicinoids help to preserve the meat and other food items against microbial activity.

## Benefits:

1. **Dence Color:** Its red color the most used natural red color int the world.
2. **Pharmacological:** Chilli oleoresin possesses anti-oxidant, analgesia, anticancer & anti-inflammation features.It radically reduce free radicals in our body.

**1. Pharmaceuticals:** Chilli oleoresin compounds are used extensively in pharmaceuticals industry. Capsaicinoids are quite effective as analgesia, anticancer, anti-inflammation, antioxidant and anti-obesity. Capsaicinoids may have potential application in pain relief, cancer prevention and weight loss. In addition, capsaicinoids also display the benefits on cardiovascular and gastrointestinal system.

**2. Food :** Chilli extract has been used for coloring various types of food.

# Few Indian Major Players are as under

- **A V T Natural Products Ltd.**
- **Akay Flavours & Aromatics Ltd.**
- **Enjayes Spices & Chemical Oils Ltd.**
- **Kancor Ingredients Ltd.**
- **Naturite Agro Products Ltd.**
- **South East Agro Inds. Ltd.**

# Project at a Glance

| PROJECT AT A GLANCE             |          |          |        | (Rs. in lacs)               |          |          |        |
|---------------------------------|----------|----------|--------|-----------------------------|----------|----------|--------|
| COST OF PROJECT                 |          |          |        | MEANS OF FINANCE            |          |          |        |
| Particulars                     | Existing | Proposed | Total  | Particulars                 | Existing | Proposed | Total  |
| Land & Site Development Exp.    | 0.00     | 50.00    | 50.00  | Capital                     | 0.00     | 59.68    | 59.68  |
| Buildings                       | 0.00     | 43.00    | 43.00  | Share Premium               | 0.00     | 0.00     | 0.00   |
| Plant & Machineries             | 0.00     | 75.40    | 75.40  | Other Type Share Capital    | 0.00     | 0.00     | 0.00   |
| Motor Vehicles                  | 0.00     | 8.00     | 8.00   | Reserves & Surplus          | 0.00     | 0.00     | 0.00   |
| Office Automation Equipments    | 0.00     | 27.00    | 27.00  | Cash Subsidy                | 0.00     | 0.00     | 0.00   |
| Technical Knowhow Fees & Exp.   | 0.00     | 10.00    | 10.00  | Internal Cash Accruals      | 0.00     | 0.00     | 0.00   |
| Franchise & Other Deposits      | 0.00     | 0.00     | 0.00   | Long/Medium Term Borrowings | 0.00     | 179.03   | 179.03 |
| Preliminary & Pre-operative Exp | 0.00     | 3.00     | 3.00   | Debentures / Bonds          | 0.00     | 0.00     | 0.00   |
| Provision for Contingencies     | 0.00     | 7.00     | 7.00   | Unsecured Loans/Deposits    | 0.00     | 0.00     | 0.00   |
| Margin Money - Working Capital  | 0.00     | 15.30    | 15.30  |                             |          |          |        |
| TOTAL                           | 0.00     | 238.70   | 238.70 | TOTAL                       | 0.00     | 238.70   | 238.70 |

# Project at a Glance

| Year | Annualised |       | Book Value | Debt  | Dividend  | Retained Earnings |       | Payout | Probable Market Price | P/E Ratio   | Yield Price/ Book Value |
|------|------------|-------|------------|-------|-----------|-------------------|-------|--------|-----------------------|-------------|-------------------------|
|      | EPS        | CEPS  | Per Share  |       | Per Share | Per Share         |       |        |                       | No.of Times |                         |
|      | Rs         | Rs    | Rs         | Rs    | Rs        | %                 | Rs    | %      | Rs                    |             | %                       |
| 1-2  | 5.41       | 9.04  | 15.41      | 24.00 | 0.00      | 100.00            | 5.41  | 0.00   | 5.41                  | 1.00        | 0.00                    |
| 2-3  | 8.30       | 11.46 | 23.71      | 18.00 | 0.00      | 100.00            | 8.30  | 0.00   | 8.30                  | 1.00        | 0.00                    |
| 3-4  | 11.16      | 13.92 | 34.86      | 12.00 | 0.00      | 100.00            | 11.16 | 0.00   | 11.16                 | 1.00        | 0.00                    |
| 4-5  | 13.93      | 16.34 | 48.79      | 6.00  | 0.00      | 100.00            | 13.93 | 0.00   | 13.93                 | 1.00        | 0.00                    |
| 5-6  | 16.59      | 18.71 | 65.38      | 0.00  | 0.00      | 100.00            | 16.59 | 0.00   | 16.59                 | 1.00        | 0.00                    |

# Project at a Glance

| Year    | D. S. C. R.       |            |         | Debt / -<br>Deposits<br>Debt | Equity as-<br>Equity | Total<br>Net<br>Worth | Return<br>on Net<br>Worth | Profitability Ratio |        |       |                         |              | Assets<br>Turnover<br>Ratio | Current<br>Ratio |
|---------|-------------------|------------|---------|------------------------------|----------------------|-----------------------|---------------------------|---------------------|--------|-------|-------------------------|--------------|-----------------------------|------------------|
|         | Individual        | Cumulative | Overall |                              |                      |                       |                           | GPM                 | PBT    | PAT   | Net<br>Contribu<br>tion | P/V<br>Ratio |                             |                  |
|         | (Number of times) |            |         | (Number of times)            |                      | %                     | %                         | %                   | %      | %     |                         | %            |                             |                  |
| Initial |                   |            |         | 3.00                         | 3.00                 |                       |                           |                     |        |       |                         |              |                             |                  |
| 1-2     | 1.33              | 1.33       |         | 1.56                         | 1.56                 | 2.41                  |                           | 14.94%              | 6.94%  | 4.86% | 219.15                  | 33.02%       | 2.18                        | 0.98             |
| 2-3     | 1.63              | 1.47       |         | 0.76                         | 0.76                 | 1.39                  |                           | 16.53%              | 9.73%  | 6.40% | 255.31                  | 32.97%       | 2.34                        | 1.24             |
| 3-4     | 2.00              | 1.64       | 2.00    | 0.34                         | 0.34                 | 0.84                  |                           | 17.61%              | 11.71% | 7.52% | 291.78                  | 32.97%       | 2.36                        | 1.56             |
| 4-5     | 2.44              | 1.81       |         | 0.12                         | 0.12                 | 0.52                  |                           | 18.34%              | 13.13% | 8.35% | 328.24                  | 32.97%       | 2.29                        | 1.92             |
| 5-6     | 2.97              | 2.00       |         | 0.00                         | 0.00                 | 0.33                  |                           | 18.83%              | 14.15% | 8.95% | 364.71                  | 32.97%       | 2.16                        | 2.97             |

# Project at a Glance

## BEP

|                                     |        |
|-------------------------------------|--------|
| BEP - Maximum Utilisation Year      | 5      |
| Cash BEP (% of Installed Capacity)  | 53.60% |
| Total BEP (% of Installed Capacity) | 57.07% |

## IRR, PAYBACK and FACR

|                                               |                  |
|-----------------------------------------------|------------------|
| Internal Rate of Return .. ( In %age )        | 26.41%           |
| Payback Period of the Project is ( In Years ) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio ( No. of times )  | 7.891            |

# Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Chilli Oleoresin Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Chilli Oleoresin plant ?**
- 7. What are the operating costs for setting up a Chilli Oleoresin plant ?**
- 8. What are the machinery and equipment requirements for setting up a Chilli Oleoresin plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Chilli Oleoresin plant ?**
- 10. What are the requirements of raw material for setting up a Chilli Oleoresin plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Chilli Oleoresin plant ?**
- 12. What is the Manufacturing Process and Formulations of a Chilli Oleoresin plant ?**

- 13. What is the total size of land required for setting up a Chilli Oleoresin plant ?**
- 14. What will be the income and expenditures for a Chilli Oleoresin plant ?**
- 15. What are the Projected Balance Sheets of a Chilli Oleoresin plant ?**
- 16. What are the requirement of utilities and overheads for setting up a Chilli Oleoresin plant?**
- 17. What is the Built up Area Requirement and cost for setting up a Chilli Oleoresin Business?**

**18. What are the Personnel (Manpower) Requirements for setting up a Chilli Oleoresin Business?**

**19. What are Statistics of Import & Export for Chilli Oleoresin ?**

**20. What is the time required to break-even?**

**21. What is the Break-Even Analysis of a Chilli Oleoresin plant?**

**22. What are the Project financials of a Chilli Oleoresin plant?**

- 23. What are the Profitability Ratios of a Chilli Oleoresin plant?**
- 24. What is the Sensitivity Analysis-Price/Volume of a Chilli Oleoresin plant?**
- 25. What are the Projected Pay-Back Period and IRR of a Chilli Oleoresin plant?**
- 26. What is the Process Flow Sheet Diagram of a Chilli Oleoresin project?**

- 27. What are the Market Opportunities for setting up a Chilli Oleoresin plant?**
- 28. What is the Market Study and Assessment for setting up a Chilli Oleoresin plant?**
- 29. What is the Plant Layout for setting up a Chilli Oleoresin Business?**

# **Table of Contents of the Project Report**

# **1. PROJECT LOCATION**

## **1.1. District Profile & Geotechnical Site Characterization**

1.1.1. General

1.1.2. Physical Characteristics

1.1.3. Climate & Rainfall

1.1.4. Map

1.1.5. Economy & Industry

1.1.6. Transportation and Communications

# **2. INTRODUCTION**

# **3. CHEMICAL COMPOSITION OF THE PEPPER FRUIT EXTRACTS**

# **4. USES**

## **5. MECHANISM OF ACTION**

## **6. B.I.S. SPECIFICATION**

**6.1. IS: 13663:1993 – CHILLI OLEORESIN—SPECIFICATION**

## **7. DESCRIPTION & PROPERTIES OF PRODUCT**

**7.1. Description**

**7.2. Properties**

7.2.1. Physical and Chemical Properties

7.2.2. Stability and Reactivity

## **8. MARKET SURVEY**

## **9. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES**

**9.1. About Financial Statements of CMIE Database**

**9.2. Profits & Appropriations**

**9.3. Total Liabilities**

**9.4. Total Assets**

**9.5. Net Cash Flow from Operating Activities**

**9.6. Section – I**

**9.6.1. Name of Company with Contact Details**

**9.6.2. Name of Director(S)**

**9.6.3. Plant Capacity**

**9.6.4. Location of Plant**

**9.6.5. Name of Raw Material(S) Consumed With Quantity & Cost**

## **9.7. Section – II**

- 9.7.1. Assets
- 9.7.2. Cash Flow
- 9.7.3. Cost as % Ge of Sales
- 9.7.4. Forex Transaction
- 9.7.5. Growth in Assets & Liabilities
- 9.7.6. Growth in Income & Expenditure
- 9.7.7. Income & Expenditure
- 9.7.8. Liabilities
- 9.7.9. Liquidity Ratios
- 9.7.10. Profitability Ratio
- 9.7.11. Profits
- 9.7.12. Return Ratios
- 9.7.13. Structure of Assets & Liabilities (%)
- 9.7.14. Working Capital & Turnover Ratios

- 10. EXPORT & IMPORT STATISTICS DATA OF INDIA**
  - 10.1. Export Statistics Data on Chilli Oleoresin**
  - 10.2. Import Statistics Data on Chilli Oleoresin**
- 11. PRESENT MANUFACTURERS**
- 12. SUPERCRITICAL CARBON DIOXIDE EXTRACTION PROCESS**
- 13. CHILLI OLEORESIN BY SOLVENT EXTRACTION PROCESS**
- 14. PROCESS FLOW DIAGRAM**
- 15. SUPPLIERS OF RAW MATERIAL**

- 16. SUPPLIERS OF PLANT & MACHINERY**
- 17. PRODUCT, MACHINERY & RAW MATERIAL PHOTOGRAPHS**
  - 17.1. Product Photographs**
  - 17.2. Machinery Photographs**
  - 17.3. Raw Material Photographs**
- 18. PLANT LAYOUT**

# Project Financials

- **Project at a Glance** **Annexure**
- Assumptions for Profitability workings .....1
- Plant Economics.....2
- Production Schedule.....3
- Land & Building.....4
  - Factory Land & Building
  - Site Development Expenses

- **Plant & Machinery.....5**
  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)
- **Other Fixed Assets.....6**
  - Furniture & Fixtures
  - Pre-operative and Preliminary Expenses
  - Technical Knowhow
  - Provision of Contingencies
- **Working Capital Requirement Per Month.....7**
  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store

- **Overheads Required Per Month and Per Annum.....8**  
     **Utilities & Overheads (Power, Water and Fuel Expenses etc.)**  
     **Royalty and Other Charges**  
     **Selling and Distribution Expenses**
  
- **Salary and Wages .....9**
  
- **Turnover Per Annum .....10**
  
- **Share Capital.....11**  
     **Equity Capital**  
     **Preference Share Capital**

- **Annexure 1 :: Cost of Project and Means of Finance**
- **Annexure 2 :: Profitability and Net Cash Accruals**
  - **Revenue/Income/Realisation**
  - **Expenses/Cost of Products/Services/Items**
  - **Gross Profit**
  - **Financial Charges**
  - **Total Cost of Sales**
  - **Net Profit After Taxes**
  - **Net Cash Accruals**

- **Annexure 3 :: Assessment of Working Capital requirements**

- **Current Assets**
- **Gross Working Capital**
- **Current Liabilities**
- **Net Working Capital**
- **Working Note for Calculation of Work-in-process**

- **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

- ROI (Average of Fixed Assets)
- RONW (Average of Share Capital)
- ROI (Average of Total Assets)

- **Annexure 6 :: Profitability Ratios**

- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio

- **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**

- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **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**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21 :: Employees Expenses**
- **Annexure 22 :: Fuel Expenses**
- **Annexure 23 :: Power/Electricity Expenses**
- **Annexure 24 :: Royalty & Other Charges**
- **Annexure 25 :: Repairs & Maintenance Expenses**
- **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**

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# ***Niir PROJECT CONSULTANCY SERVICES***

**An ISO 9001:2008 Company**



# Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

# What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Technology Books and Directory*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

## How are we different ?

- *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**

# Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

# Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *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*

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

- *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.*

- *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.*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
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