Nicotine Extraction From Tobacco Waste
Waste Utilization, Products from Waste, Nicotiana Tabacum, Duboisia Hopwoodii and Asclepiassyrriaca

Tobacco is grown with assistance of man as a leaf as the most valuable part of the plant. Tobacco is primarily used for cigarette, Cigars, chewing tobacco and snuff. Other products from tobacco include Beedi and Hookah and are typically Indian products with 90% of production coming from India. Nicotine is a hygroscopic, oily liquid that is miscible with water in its base form. Nicotine is a volatile alkaloid. Nicotine is by far the most important by-product derived from tobacco waste.
The applications and uses of nicotine are: agricultural insecticide, manufacture of nicotine acid and nicotinamide, used in medicines, tanning industry. The most important among the alternate applications for tobacco at present is for the manufacture of Nicotine for use in the preparation of Smoking cessation products.

India has conquered her own place in the world, with an annual production of about 725 million kgs. of tobacco.
India enjoys an edge over the leading tobacco producing countries in terms of low production cost, average farm and export prices. India is one of the leading exporters of tobacco and occupies second place after Brazil. Tobacco Waste based industries in India started with the manufacture of Nicotine and 40% aqueous solution of Nicotine sulphate. Since tobacco waste is a major cost component with 51.5% share in sale price any increase in nicotine content or reduction in price of tobacco waste will improve the economics of the project.
## Project at a Glance

### PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>COST OF PROJECT</th>
<th>MEANS OF FINANCE</th>
<th>(Rs. in lacs)</th>
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<tbody>
<tr>
<td>Particulars</td>
<td>Existing</td>
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<td>Land &amp; Site Development Exp.</td>
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<td>Buildings</td>
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<td>Plant &amp; Machineries</td>
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<td>Motor Vehicles</td>
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<td>Office Automation Equipments</td>
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<td>Provision for Contingencies</td>
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<tr>
<td>Margin Money - Working Capital</td>
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<td>38.57</td>
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**TOTAL**

0.00 | 399.55 | 399.55
## Project at a Glance

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<th>Year</th>
<th>Annualised</th>
<th>Book Value</th>
<th>Debt</th>
<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield</th>
<th>Price/ Book Value</th>
<th>No.of Times</th>
<th>%</th>
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<td></td>
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<td>CEPS</td>
<td>Per Share</td>
<td>Per Share</td>
<td>Per Share</td>
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<td>1.00</td>
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## Project at a Glance

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<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
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<tr>
<td></td>
<td>Individua l Cumulative Overall</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Initial</td>
<td>3.00</td>
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<td>1.46</td>
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<td>0.59</td>
<td>11.25%</td>
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# Project at a Glance

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<th>BEP</th>
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<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>56.52%</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>60.21%</td>
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</table>

<table>
<thead>
<tr>
<th>IRR, PAYBACK and FACR</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>26.36%</td>
</tr>
<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 6 Months</td>
</tr>
<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>14.123</td>
</tr>
</tbody>
</table>
1. What is Nicotine industry?

2. How has the Nicotine industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of a Nicotine Extraction from Tobacco Waste Plant?

4. What are the requirements of Working Capital for setting up a Nicotine Extraction from Tobacco Waste plant?
5. What is the structure of the Nicotine Business and who are the key/major players?

6. What is the total project cost for setting up Nicotine Extraction from Tobacco Waste plant?

7. What are the operating costs for setting up a Nicotine Extraction from Tobacco Waste plant?

8. What are the machinery and equipment requirements for setting up a Nicotine Extraction from Tobacco Waste plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Nicotine plant?

10. What are the requirements of raw material for setting up a Nicotine Extraction plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Nicotine Extraction plant?

12. What is the Manufacturing Process and Formulations of a Nicotine Extraction from Tobacco Waste plant?
13. What is the total size of land required for setting up a Nicotine Extraction from Tobacco Waste plant?

14. What will be the income and expenditures for a Nicotine project?

15. What are the Projected Balance Sheets of a Nicotine Extraction from Tobacco Waste plant?

16. What are the requirement of utilities and overheads for setting up a Nicotine Extraction from Tobacco Waste plant?

17. What is the Built up Area Requirement and cost for setting up a Nicotine Business?
18. What are the Personnel (Manpower) Requirements for setting up a Nicotine Extraction from Tobacco Waste Business?

19. What are Statistics of Import & Export for Nicotine Extraction from Tobacco Waste?

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

21. What is the Break-Even Analysis of a Nicotine Extraction from Tobacco Waste plant?

22. What are the Project financials of a Nicotine plant?
23. What are the Profitability Ratios of a Nicotine Industry?

24. What is the Sensitivity Analysis-Price/Volume of a Nicotine Extraction from Tobacco Waste plant?

25. What are the Projected Pay-Back Period and IRR of a Nicotine Extraction plant?

26. What is the Process Flow Sheet Diagram of a Nicotine Extraction from Tobacco Waste project?
27. What are the Market Opportunities for setting up a Nicotine Industry?

28. What is the Market Study and Assessment for setting up a Nicotine Extraction from Tobacco Waste plant?

29. What is the Plant Layout for setting up a Nicotine Extraction from Tobacco Waste 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. Map
1.1.4. Climate
1.1.5. Rainfall
1.1.6. Transportation and Communications
1.1.7. Economy

2. INTRODUCTION

2.1. Nicotine
2.2. History Of Tobacco

3. USES & APPLICATIONS
4. **B.I.S. SPECIFICATION**

4.1. Is: 1055-nicotine Sulphate Solution Specific Requirements Regarding Nicotine Content And Sedimentation. Also Gives Methods Of Sampling And Test.

5. **SPECIFICATION OF NICOTINE**

6. **PROPERTIES OF NICOTINE**

6.1. Hazard
6.2. Nicotine Salt

7. **CHEMICAL CONSTITUENTS OF TOBACCO**

7.1. Products From Tobacco And Tobacco Wastes
8. VARIETIES OF TOBACCO IN INDIA
8.1. Nicotine/Nicotine Derivatives From Tobacco
8.2. Nicotine And Its Commercially Important Derivatives:
8.3. World Pesticide Market And Prospects For Nicotine Sulphate

9. MARKET SURVEY
9.1. Exports And Key Markets
9.2. Nicotine
9.3. Status Of Tobacco Waste Based Industries In India
9.4. Demand Of Nicotine
9.5. Electronic Cigarettes
9.6. Pharmaceutical Use Of Nicotine
9.7. Market Prices Of Nicotine And Its Salts:
9.8. World Pesticide Market And Prospects For Nicotine Sulphate
9.9. Demand To Regulate Sale Of Nicotine In Delhi

10. Export & Import Statistics Data Of India
10.1. Export Statistics Data On Nicotine
10.2. Import Statistics Data On Nicotine

11. Commercial Aspects Of Nicotine Sulphate & Nicotine Derivatives
12. ESTIMATION OF NICOTINE IN TOBACCO

12.1. Natural Seeds Are Practically Free Of Alkaloids

12.2. Nicotine Contents Of Important Types Of Cured

12.3. Laboratory Extraction Of Nicotine From Tobacco

13. RAW MATERIAL

14. SUPERCRITICAL FLUID EXTRACTION

14.1. Advantages

14.1.1. Selectivity
14.1.2. Speed
14.1.3. Limitations
14.1.4. Procedure
15. MANUFACTURING PROCESS
   15.1. Raw Materials Required
   15.2. Process Details

16. PROCESS FLOW SHEET

17. SUPPLIERS OF PLANT & MACHINERY
   17.1. Complete Plant & Machinery

18. SUPPLIERS OF RAW MATERIAL

19. PLANT LAYOUT

20. MACHINERY & RAW MATERIAL PHOTOGRAPHS
   20.1. Machinery Photographs
   20.2. Raw Material Photograph
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Factory Land & Building
Site Development Expenses

Annexure
• 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
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Nicotine Extraction from Tobacco Waste

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Our Approach

- Requirement collection
- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation
<table>
<thead>
<tr>
<th>Category</th>
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<td>Corporates</td>
</tr>
<tr>
<td>Government Undertakings</td>
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<tr>
<td>Individual Entrepreneurs</td>
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<tr>
<td>NRI’s</td>
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<tr>
<td>Foreign Investors</td>
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<tr>
<td>Non-profit Organizations, NBFC’s</td>
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<td>Educational Institutions</td>
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<td>Consultancies</td>
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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
Sectors We Cover

- 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

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- 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
Sectors We Cover

- 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

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- 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.
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- 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.

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- 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
Sectors We Cover

- 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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