

# **Extraction of Curcumin from Turmeric**

(Curcumin Longa, Phytochemicals, Curcuminoid of Turmeric (Curcuma

Longa), Spice Oleoresins, Spice Oils and Oleoresins, Curcuma)

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

Curcumin is a component of the Indian spice turmeric (Curcumin longa), a type of ginger. Curcumin is one of three curcuminoids present in turmeric, the other two being desmethoxycurcumin bisand desmethoxycurcumin. These curcuminoids give turmeric its yellow color and curcumin is used as a yellow food colorant and food additive.



Curcumin is obtained from the dried rhizome of the turmeric plant, which is a perennial herb that is cultivated extensively in south and Southeast Asia. The rhizome or the root is processed to form turmeric which contains 2% to 5% curcumin.



Curcumin is the main biologically active photochemical compound of Turmeric. Turmeric is a spice derived from the rhizomes of Curcuma longa, which is a member of the ginger family (Zingiberaceae). Rhizomes are horizontal underground stems that send out shoots as well as roots. The bright yellow color of turmeric comes mainly from fat-soluble, polyphenolic pigments known as curcuminoid.



### **Market Outlook**

India is one of the largest producer and exporter of spice oleoresins.

India controls 60% of the 13,500-tonne global spice oleoresins market even as China has emerged as a strong contender in paprika oleoresin, the most indemand spice oil.



The Indian spice oleoresin market is about Rs.600 crores. India accounts for 70% of the world oleoresin production with competition from China, US, Lanka, South Africa and Latin America. Brazil, China and India are the market leaders. Kochi in Kerala with its spice farms is the hub of oleoresin manufacturing.



Curcumin production is highly dependent on turmeric production which is regional dominated by India. India is the largest manufacturer of curcumin with production exceeding 80% of global market.

Curcumin Market size is expected to reach USD 99.3 million by 2024.



### U.S. Curcumin Market Size, By Application, 2013-2024 (USD Million)





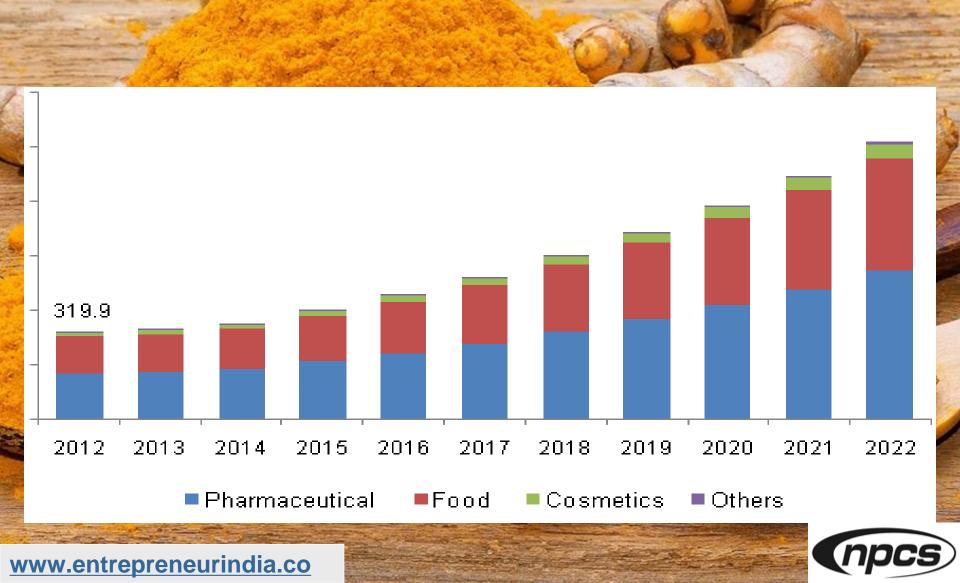


Global curcumin market is expected to witness high growth on account of its increasing demand in food, cosmetics and pharmaceuticals. Curcumin is extracted from turmeric (curcuma longa) and is used in the abovementioned end-use industries for its antiinflammatory and anti-oxidation properties. Rising consumer awareness regarding health benefits of the product is expected to play an important role in driving market growth over the forecast period.





### Global Curcumin Market, By Application, 2012 - 2022 (Tons)



Based on application, global curcumin market is segmented into pharmaceutical, food, cosmetics and others which include cyanide detection and dye. Among these, pharmaceuticals accounted for larger share of the global curcumin market is expected to rise during the forecast period. Growing demand for curcumin in the pharmaceutical industry has boosted market growth of global curcumin market.



The beneficial properties of curcumin such as anticancer and anti-viral has made its useful in manufacturing wide range of medicines and herbal supplements. Therefore, pharmaceutical industry is anticipated to generate high demand for curcumin in the near future. Food accounted as the second largest application segment of curcumin.



### Few Indian Major Players are as under

- Arjuna Natural Extracts Ltd.
- Enjayes Spices & Chemical Oils Ltd.
- Naturite Agro Products Ltd.
- Sanat Products Ltd.

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• Synthite Industries Ltd.



#### **COST OF PROJECT**

### MEANS OF FINANCE

					Propose	
Existing	Proposed	Total	Particulars	Existing	d	Total
0.00	22.50	22.50	Capital	0.00	83.34	83.34
0.00	99.00	99.00	Share Premium	0.00	0.00	0.00
			Other Type Share			
0.00	131.25	131.25	Capital	0.00	0.00	0.00
0.00	10.00	10.00	<b>Reserves &amp; Surplus</b>	0.00	0.00	0.00
0.00	29.00	29.00	Cash Subsidy	0.00	0.00	0.00
0.00	10.00	10.00	Internal Cash Accruals	0.00	0.00	0.00
			Long/Medium Term			
0.00	0.00	0.00	Borrowings	0.00	250.01	250.01
0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
			Unsecured			
0.00	13.00	13.00	Loans/Deposits	0.00	0.00	0.00
0.00	15.60	15.60				
0.00	333.35	333.35	TOTAL	0.00	333.35	333.35
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	EPS CEPS		Per S	Share	Per Share	Per Share			-		
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs	Times	%
1-	_			_							
2	4.51	9.00	14.51	24.00	0.00	100.00	4.51	0.00	4.51	1.00	0.00
2-3	7.51	11.41	22.02	18.00	0.00	100.00	7.51	0.00	7.51	1.00	0.00
3-4	10.43	13.82	32.45	12.00	0.00	100.00	10.43	0.00	10.43	1.00	0.00
4-5	13.23	16.19	45.68	6.00	0.00	100.00	13.23	0.00	13.23	1.00	0.00
5-6	15.89	18.48	61.58	0.00	0.00	100.00	15.89	0.00	15.89	1.00	0.00
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								30.51		10.00	367.4	58.71		
2-3	1.63	1.47		0.82	0.82	1.13		%	15.01%	%	0	%	1.64	1.33
								32.61		12.15	419.8	58.71		
3-4	1.99	1.63	1.99	0.37	0.37	0.61		%	18.84%	%	6	%	1.67	1.88
								34.03		13.71	472.3	58.70		
4-5	2.42	1.80		0.13	0.13	0.32		%	21.53%	%	3	%	1.62	2.52
								34.97		14.81		58.70		
5-6	2.93	1.99		0.00	0.00	0.16		%	23.42%	%	9	%	1.52	5.25



### BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	55.98%
Total BEP (% of Installed Capacity)	60.08%
IRR, PAYBACK and FACR	
Internal Rate of Return (In %age)	25.89%
	2 Veere 6

Payback Period of the Project is (In Years) Fixed Assets Coverage Ratio (No. of times) 25.89% 2 Years 6 Months

e Ratio (No. of times ) 5.002



### **Major Queries/Questions Answered in the Report?**

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



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



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Curcumin Extraction Business?

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

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Curcumin Extraction Business ?

12. What is the Manufacturing Process of Curcumin?



13. What is the total size of land required for setting up Curcumin Extraction plant ?

14. What will be the income and expenditures for Curcumin Extraction plant ?

15. What are the Projected Balance Sheets of Curcumin Extraction Business ?

16. What are the requirement of utilities and overheads for setting up Curcumin Extraction plant?

**17. What is the Built up Area Requirement and cost for setting up Curcumin Extraction Business?** 



18. What are the Personnel (Manpower) Requirements for setting up Curcumin Extraction Business?

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

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

21.What is the Break-Even Analysis of Curcumin Extraction plant?

22.What are the Project financials of Curcumin Extraction plant?



23. What are the Profitability Ratios of Curcumin Extraction plant?

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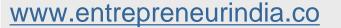
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#### **Reasons for buying our report:**

• 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 ...... provides an insight into the ..... market in India with focus on uses and applications, Manufacturing **Process, Process Flow Sheets, Plant Layout and Project Financials** of ..... project. The report assesses the market sizing and growth of the Indian ...... 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

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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 ...... sector in India along with its business prospects. Through this report we have identified ...... project as a lucrative investment avenue.



#### Tags

Curcumin Extraction, Curcumin Extraction Plant, Curcumin Extraction Process from Turmeric, Curcumin from Turmeric Processing Plant, Curcumin/Turmeric Extract, Curcumin Herbal Extract, Turmeric Processing for Curcumin, Curcumin Extract, Haldi Extract, Curcuma Extract, Turmeric Extract, Turmeric Processing Plant Project Report, Extraction of Curcumin, Extraction of Plant Curcumin, Curcumin Extraction Unit, How is Curcumin Extracted from Turmeric?, Methods of Extraction of Curcumin from Turmeric, Curcumin Extraction Project Report, Extraction of Curcumin from Curcuma Longa, Process for Extraction of Curcumin from Turmeric, Turmeric Processing Methods, Project Report on Curcumin, Turmeric Extract or Curcumin (Curcuminoids), Curcumin, Turmeric Oleoresin, Curcuma Extraction Process, Extraction of Curcumin from Turmeric Roots, Extraction Methods of Curcumin from Turmeric, Preparation of Curcumin from Turmeric, Curcumin Extraction Project, Procedure for Extraction of Curcumin from Turmeric, How to Process Turmeric,





#### Tags

Turmeric Curcuma Processing Plant, Haldi Processing Plant, Turmeric Processing, Turmeric Processing Method, Turmeric Processing Plant in India, Turmeric Processing Project Report, India Turmeric Processing Plant, Processing of Turmeric, Spices Processing Plant, Turmeric Farming Guide for Beginners, Turmeric Cultivation, Turmeric Farming and Cultivation India, Cultivation of Turmeric, Turmeric in India, Start Turmeric Cultivation on Small Scale, Turmeric Cultivation Guide, Turmeric Farming, Growing Turmeric, Growing Turmeric for Profit, Spice Oleoresins, Oleoresins Extraction Process, Phytochemicals, Curcuminoid of Turmeric (Curcuma longa), , Spice Oils and Oleoresins, Curcumin Processing Project Ideas, Projects on Small Scale Industries, Small Scale Industries Projects Ideas, Curcumin Based Small Scale Industries Projects, Project Profile on Small Scale Industries, How to Start Curcuma Processing Industry in India, Curcumin Processing Projects, New Project Profile on Curcumin Processing Industries, Project Report on Extraction of Curcumin from Turmeric,





Detailed Project Report on Extraction of Curcumin from Turmeric, Project Report on Extraction of Curcumin Longa from Turmeric, Pre-Investment Feasibility Study on Extraction of Curcumin from Turmeric, Techno-Economic Feasibility Study on Extraction of Curcumin from Turmeric, Feasibility Report on Extraction of Curcumin from Turmeric, Free Project Profile on Extraction of Curcuma from Turmeric, Project Profile on Extraction of Curcumin from Turmeric, Download Free Project Profile on Extraction of Curcumin Longa from Turmeric, Industrial Project Report, Project Consultant, Project Consultancy, Npcs, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, Business Guidance to Clients, Startup Project for Extraction of Curcumin Longa from Turmeric, Startup Project, Startup Ideas, Project for Startups, Startup Project Plan, Business Start-Up, Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project, Project Report for Bank Loan, Project Report for Bank Finance, Project Report Format for Bank Loan in Excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Detailed Project Plan Report



#### Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Extraction of Curcumin from Turmeric

(Curcumin Longa, Phytochemicals, Curcuminoid of Turmeric (Curcuma Longa), Spice Oleoresins, Spice Oils and Oleoresins, Curcuma) 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

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#### **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, 8800733955 Mobile: +91-9811043595 Fax: +91-11-23845886 Website : <u>www.entrepreneurindia.co</u>, <u>www.niir.org</u> Take a look at NIIR PROJECT CONSULTANCY SERVICES on **#StreetView** 

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# NIR PROJECT CONSULTANCY SERVICES

# An ISO 9001:2015 Company



## Who are we?

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- 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



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



#### What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Business Plan
- Technology Books and Directory
- Industry Trend
- 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
- $\circ$  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
- O 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 & Hospitability 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
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable



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#### For more information, visit us at: <u>www.niir.org</u> <u>www.entrepreneurindia.co</u>

Thank

