

The Complete Book on Cashew (Cultivation, Processing & By-Products)

Author:- Dr. H. Panda

Format: paperback

Code: NI253

Pages: 640

Price: Rs.1775US\$ 150

Publisher: NIIR PROJECT CONSULTANCY SERVICES

Usually ships within 5 days

Cashew, scientifically known as *Anacardium occidentale*, is a unique nut with a fascinating story. This tropical nut is native to Northeastern Brazil but is now widely cultivated in countries like India, Vietnam, and Nigeria. The cashew tree thrives in warm and humid climates, with sandy soil being its preferred growing medium. The cashew nuts are located at the end of a kidney-shaped drupe called the cashew apple. This drupe contains a highly toxic substance known as urushiol, which can cause severe skin irritation. Farmers must take great care to protect themselves during the harvesting process. Processing raw cashews involves several techniques and tools to transform the nuts into the delicious snack all love. Once the cashews are harvested and separated from the cashew apple and kernel, they go through a series of steps to remove any impurities and enhance their flavor.

The global cashew market size reached US\$ 7.2 Billion. The market to reach US\$ 9.3 Billion, exhibiting a growth rate (CAGR) of 4.14%. Cashews are kidney-shaped nuts that are a good source of protein and minerals. They are low in sugar and rich in oil, fiber, protein, healthy fats, antioxidants, magnesium, zinc, copper, and phosphorus. Cashews are commonly available in whole, roasted, and split form. They are obtained from fruit-producing trees and grow near the sea areas and are widely used in beverages, dairy products, cereals, bars, cosmetics, and bakery products.

The book covers a variety of topics related to Organic farming, Cashew Processing, Production of CNSL Derivatives, Quality control of cashew kernels, Cashew Liquid, Purification of Cashew Nut Shell, additives from cashew nut shell liquid, Honey coated nuts, Volatile nut aroma and flavour compositions, producing cardanol, Bisphenol Compounds, Hydrophobically Modified Poly(acrylic acid) [PAA], Heat-curable epoxy resin composition, Adhesives for car body assembly, Preparation of Flavour or Fragrance Microcapsules and Silane-Modified Phenolic Resins.

A thorough guide on Cashew manufacture and entrepreneurship. This book is a one-stop shop for everything you need to know about the Cashew, which is ripe with opportunity for producers, merchants, and entrepreneurs. This is the only book that covers the process of making commercial Cashew (Cultivation, Processing & By-Products). From concept through equipment procurement, it is a veritable feast of how-to information.

1. Introduction
2. Indian cashew - The Government initiatives
3. Cashew Development in India
4. Agro-ecological regions and classification of cashew
5. Morphology and Characteristics of growth and development of cashew tree
6. Improved productivity of cashew through soil and nutrient management
7. Effect of weather parameters of cashew production
- 8 . Improvement: Breeding, Germplasm, Selection and hybridization

9 . Diseases of Cashew

10. Propagation- layering, budding and Grafting
11. Cultivation
12. Planning for improved productivity through efficient water management
13. Organic farming in cashew
14. Traditional Method of Cashew Processing
15. Cashew Processing Operation
16. Production of CNSL Derivatives

Rubber like elasticity products

Electrical insulating materials

Phenol of CNSL and its products

Cating Composition from CNSL

Polymerization of CNSL

Polymerized ethers of CNSL

CNSL-Shellac derivatives

Cellulose ethers plasticized with ethers of CNSL

Modified ether-esters of CNSL

Polymerized Cardanol

Furfuraldehyde condensation product of CNSL

Styrene product of CNSL

Glyceryl ethers of Hydrogenated cardanol

Anacardic-acrolein resins

Allyl ethers of anacardic products

Pine wood-Anacardic products

Products of anacardic materials using sulfonic acid catalysts

Molding compound of Cashew Nut Shell Oil polymer

Epoxy modified CNSL

Anacardic acid treated with TRIS (Hydroxyethyl Isocyanurate)

Rust inhibitor from CNSL

Project Report of Anti-Corrosive Point from CNSL

Eco-friendly management of water hyacinth with a mycoherbicide with CNSL

Multifunctional alcohol obtained from CNSL

Design and Development of soft nano materials from CNSL

Cashew to play role in nano technology

17. Quality control of cashew kernels

18. Commercial exploitation of cashew apples

Infestation

Hygiene and Safety

Food hygiene and law

Food poisoning and its causes
Personal hygiene
Cleanliness of equipment and working area
Other sources of contamination
Packaging and Preservation
Uses of cashew
References
List of cashew manufacturers/Suppliers of Machinery
Cashew Research Organisations
Cashew Regional Nurseries in Public Sector areas
Cashew Regional Nurseries in Private Sector Areas
Major processors and exporters of cashew
Internet sites
19. CASHEW LIQUID: Development of a Cashew
Nut Cracking Device
20. The Potential of CNSL in Fuel Blends for Engines
21. Process of Purification of Cashew Nut Shell

Liquid(CNSL) for Isolation of Cardanol
22. Evaluation of Copperised Cashew Nut Shell Liquid
and Neem Oil as Wood Preservatives
23. Utilisation of Cashew Nut Shell Liquid from
Anacardium occidentale as Starting Material
for Organic Synthesis
24. Edge Retentive and Solvent Free Coating Based
on a Renewable Raw Material
25. Multifunctional additives from cashew nut shell liquid
26. Honey coated nuts
27. Volatile nut aroma and flavour compositions
28. Gloss coatings to foods and for protecting nuts
from rancidity
29. Lubricity Improving Additive Composition
for Low Sulfur Diesel Fuel
30. Process for preparation of oximes
31. Antioxidant composition for motor gasoline
32. Rapid Dry Fiberglass Stain
33. Method for producing cardanol (II)
34. Manufacture of Bisphenol Compounds
35. Preparation of Hydrophobically Modified Poly(acrylic acid) [PAA]
36. Heat-curable epoxy resin composition
37. Adhesives for car body assembly
38. Nutritional supplement compositions
39. Hydrophobic Polyols of Low Viscosity
40. Preparation of Flavour or Fragrance Microcapsules
41. Silane-Modified Phenolic Resins

About NIIR

NIIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world

for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. 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.

NIIR PROJECT CONSULTANCY SERVICES, 106-E, Kamla Nagar, New Delhi-110007, India.
Email: npcs.india@gmail.com **Website:** NIIR.org

Sat, 05 Jul 2025 19:22:39 +0000