



Virgin Coconut Oil Meal (VCM) Based Products

Technology Description

Virgin coconut oil (VCO) is produced by subjecting coconut milk from mature kernel to mechanical-, hot- or fermented- process. Machinery for production of VCO by hot processing includes testa remover, pulveriser, milk extractor and a specially designed VCO cooker. For fermentation process, a fermentation tank is required instead of a VCO cooker.

Background

VCO is pure and pristine than any of the commercial edible oils. VCO obtained from hot- and fermented- process contain more phenolic content and antioxidant activity than the commercial grade coconut

Benefits / Utility

VCO is consumed as a functional food. It is used in cosmetics and pharmaceuticals industry. Medicinal property of VCO has been analyzed in Wistar Albino Rats indicated reduction in total cholesterol, LDL, Triglycerides and increase in HDL level in blood serum. It also has the property to reduce triglycerides, urea, c content in blood serum. reatinine, SGOT, and SGPT

Country Context

India

Scalability

Yes. At present it is produced on small scale as cottage industry. But it can be scaled up to a large scale industry.

Business and Commercial Potential

Business Potential: VCO is a premium product and if positioned appropriately can fetch high returns, especially as a functional food or for cosmetics applications.

Market Response: VCO is accepted by the consumers and are ready to pay higher price. It is being used as baby massage oil as well as hair oil

Potential investors to this technical innovation

Small scale Entrepreneurs & corporate houses including Pharmaceutical companies.



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Financials

VALUE OF THE TECHNOLOGY: Tech commercialization fee to be charged from one licensee Rs.40,000 Financial Required: Fix assets (Land and Building)= 100 sq.m Rs 20000 per-sq.m Machinery = Rs. 20.00 lakhs Others= Rs. 1.00 lakhs Cost: Rs. 10 Lakhs Energy Requirement: Electricity; LPG or agricultural waste Electricity: 10 units per 500 nuts

Target Market / Customer

Potential Clients: Domestic users Health clubs/naturopathy centres Medical practitioners (Ayurvedic/Sidha/Traditional) Manufacturers of Ayurvedic/Sidha medicines and cosmetics

Limiting factors for large scale commercialization

Financial (capital) and marketing support is needed for large scale commercialization of this technology. Shelf life period and marketing network of the product.

Social impact of the technology

Awareness about the latest proven technologies through EDP programmes, and introduction of community level processing hubs and sales outlets.

Name Of institute:
Central Plantation Crops Research Institute
Stage of development:
Ready for commercialization
Patent status: No

Scientific Experts:
Dr. A.C. Mathew

