

*Falcon  
Writing Pad*

**003**

*A Falcon Product*



# Sustainability

## Sustainable Coconut Industry in the 21st century

- ① Economic efficiency
- ② Ecological sustainability
- ③ Social sustainability  
eg. jobs

24 July

International Coconut Conference, 2000

Asian and Pacific Coconut  
Community (APCC), Jakarta  
Coconut Development Board

Shri. N. Vish Kumar

Shri. Veerapanda Arumugam

Shri. S. B. P. R. K. Satyanarayana  
Rao

Dr. H. P. Singh, Horticulture  
Commissioner

XXX VII Cocotech Meeting

Sustainable Coconut Industry

in the 21st Century

# I Concept of Sustainability

- Economic efficiency
- Environmental Sustainability
- Social " employment, health

Packages of Technology

Services

Public Policy.

Input - out pricing

Home + external trade

Business Line

Imports could be in excess

of 10 lakh tonnes during July &

August

Refined palmolein oil : \$ 315 / tonne  
for Malaysia - final cost  
\$ 345 / tonne

Soybean oil : \$ 335-340/t

Crude sunflower oil : \$ 375 / tonne

India Groundnut oil

Rs ~~40~~ 410 per 10 kg

Rs 41000 per tonne

Refined Palmolein, Rs 222 / per 10 kg

Coconut's role in nutritional & livelihood security in India

### Suggestions

① Productivity improvement  
1998-99

Mt/ha

19573

— Andhra Pradesh.

15020

— Maharashtra

11620

— Tamil Nadu

6118

— Kerala

over 100000 ha  
out of the 2 million ha in  
India

## ② Global Coconut Research Program

### Coconut Biotechnology

Network, eg Rice

### ⊕ Genetic Transformation

Pest & disease resistance

Salinity & Drought tolerance

Pangrove to Coconut

Prosopis to Coconut

### ⊖ Clonal propagation

## ③ Coconut Germplasm exchange

FAO's revised international  
undertaking

Multilateral System of  
exchange

Coconut should be included

International Coconut Genetic Resources  
Network

Dr Gabrielle J. Perley

Proximate Science:

Agricultural biotechnology, the  
environment and the poor.

① University of Queensland -  
Microbiology.

Thesis. Canava bacterial  
fly, IITA, Nigeria

② ACIAR - 10 years with  
Sir John Crawford

③ I SMAR - World Bank  
Biotech initiative

④ 1991 - 96 - World Bank,  
Adviser on Biotechnology in  
Rural Development Branch

⑤ 1996 - 98 - Adviser to CAAR

(6) Member of CAB I Governing Board.

(7) Advisor

(8) In Chennai to attend the Int Coconut Conference

Promethean Science

Daringly Original  
+  
creative

Prometheus: Greed Mythology  
Discoverer of Fire

Alliances of the coming

Vision, Strategy,  
Agenda, Focus  
Flexibility      Flexibility

# • Vision

- Strategy
- Agenda Focus
- Flexibility in Implementation

## • Biotechnology Park

### • Disruptive Model

Chemical - Food & Medical  
Environmental Biotechnology

Biotechnology Park  
Marine Biotechnology Park

Agri-Bio

Biotech  
Agri-Biotechnology  
Park

(Fashion & Wellness Park)  
Bio-Pharmaceutical Plant

# Biotechnology Policy for

Tamil Nadu

o Biotechnology Enterprise  
Zone

o Biotechnology Park

Incubation Model.

o Chennai - Food & Medical  
Environmental Biotechnology

o Marine Biodiversity Park  
Mandapam Agriculture

o Madurai : Agri. Biotechnology  
Park.

( Eastern &  
Western Ghats )  
includes  
Medicinal Plants

# Biotechnology Policy for

Tamil Nadu

• Biotechnology Entrepreneurship  
Zone

• Biotechnology Park.

Incubation Model.

• Chennai - Food & Medical  
Environmental - Biotechnology

• Marine Biodiversity Park  
Mandapam Agriculture

• Madurai : Agri. Biotechnology  
Park.

( Eastern & Western ghats )  
including Medicinal plants

Business consulting Group

Satguru Consultants.

Report of the High  
Power Committee

Mr Sridhar Venkateswaran

Dr Kundan Saran.

Business Consulting Group.

Medical Biotechnology

Food Biotechnology

Agriculture "

Industrial "

Environmental "

# Networks

- ① Biotechnology Incubator  
Park, Chennai
- ② Women's Biotechnology  
Park, Keelakarai.
- ③ IITK/Ag. Biotech Park - Dadwan
- ④ Nature Biotechnology Park.  
(Nandapur)

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Dr Vijayaraghavan  
Satguru Consultants

Critical mass of research talent

Life Sciences Corridor

Structure

• Biotechnology Enterprise Zone

• Biotechnology Parks

Chemical Medical, Veterinary,  
Food, Environmental (leather  
& textile) biotechnology.

Nandapam: Marine biotechnology,

Naduvannur: Agriculture " & Medicine  
Plants.

Common Facilities ← Informal  
Green House

Bioscience Centre

Life Sciences Corridor.

Focus on a few  
areas.

Overall Vision &  
Policy

Sourcing of raw  
materials

Sheela Ram: How will  
you provide the  
infrastructure — electricity etc.

Focus on Commercial focus

Dr Reddy's group

Conflict of interest — clear  
guidelines

Precise role of Corporate Bodies

Parks in Canada & USA

Smaller entrepreneurs.

Dr Ramakrishna : Demand driven  
entrepreneurs

Guidelines for Ride safety

Amalitharan

Funding prospects  
— is this a priority  
industry?

Kesavan What is the  
national resource base?  
what are the strengths  
in technology

What are the strengths  
in natural resources &  
technology?

Shreea Rai - Ayurveda &  
Siddha

Authentication &  
Validation

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Gopalem : Commercially  
viable Facilitator  
Centre

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Naya rasoi - Factbook.  
State Biodiversity Board

- ① Focus - Financial viability
- ② Identify strengths -  
Ayurveda  
Siddhi
- ③ Identify technologies
- ④ Sourcing of raw material  
Biosafety and
- ⑤ IPR issues
- ⑥ Collaboration - Industry -  
University ~~Partnership~~ ~~Partnership~~
- ⑦ Training of Technicians -  
very important.
- ⑧ Provide a facility  
to capitalise upon opportunities

## Services — Products

State Biodiversity Board — Single window clear

Biotechnology Enterprise Zone (BEZ)

Biotechnology Parks Women

• Chennai <

• Navne —

• Agricultural + Medicinal  
Plant Biotechnology  
Park

Bioinformatics

Untapped Strengths of

Tamil Nadu in

resources & technologies.

B.R.

① Dr Laksmani

② <sup>K</sup>Dr Yammer<sub>h.</sub>

Dr Suchanita Kumar

