Major Coconut products & Assistance under Technology Mission on Coconut

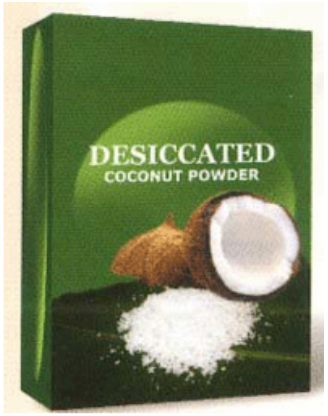




World Coconut Day

2nd September 2015

Mrs.Resmi. D.S
Assistant Director (Technology)
Coconut Development Board, Kochi







CONTENTS

- Major value added coconut products
  - VCO
  - Packed Tender Coconut Water
  - Coconut Milk / cream
  - Spray Dried Milk Powder
  - Desiccated Coconut
  - Coconut Oil
  - Coconut Shell Powder
  - Coconut Shell Charcoal
  - Activated Carbon
  - Neera and Neera Products
- Technology Mission on Coconut
  - Objectives
  - Eligible Institutions
  - Pattern of Assistance
  - Impact of TMOC
- Conclusion







VIRGIN COCONUT OIL



- **A Premium Grade Oil extracted directly from fresh coconut through wet processing**
- **White in Color**
- **Extensive Medicinal uses**
- **Shelf life remains for a period up to 1 year.**

VIRGIN COCONUT OIL

Technology for VCO by CDB in association with Central Food Technological Research Institute, Mysore

Product yield

10000 coconuts would yield about 600 Kg of virgin coconut oil

Export :

816 MT VCO worth Rs.2472 lakhs (2014-15)

Export growth of VCO over (2013-14) is 500%

TENDER COCONUT WATER

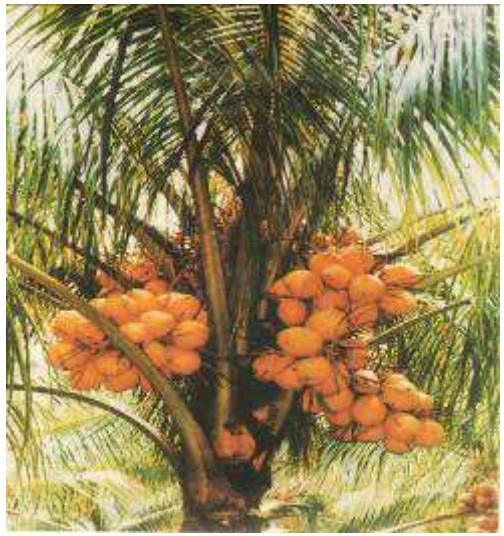


Undiluted, unpolluted, unpoisoned natural drink.

Zero fat, zero cholesterol **and zero added sugar**

Rich in the *essential electrolytes* like sodium, potassium, magnesium, calcium and phosphorus

Possess therapeutic properties with *vitamins, minerals and protein.*



Chowghat Orange Dwarf



Chowghat Green Dwarf



Malayan Yellow Dwarf



Malayan Orange Dwarf

TENDER COCONUT WATER



Characteristic and pleasant flavor of tender coconut water is contributed by delta lactones, which diminish slowly with maturity / aging.

This labile flavor is most difficult to preserve and is preferred by the consumers

PRODUCTS FROM TENDER COCONUT

Tender Coconut Water



Packaged Tender Coconut Water





Minimal Processing of Tender coconut



Snow Ball Tender Nut



Fruit juice blended tender coconut water



PRESERVED AND PACKED TENDER COCONUT WATER

- **Technology developed by CDB in association with *Defence Food Research Laboratory , Mysore***
- **Technology Transfer fee: *3.50 lakhs* + *Service Tax***
- **26 Tender Coconut Preserving and Packing Units assisted by the Board with total installed capacity to process 128.7 million tender nuts per year**

DIFFERENT BRANDS OF PACKAGED TENDER COCONUT WATER









Product yield

- **10000 coconuts would yield about 2000 litres of tender coconut water**

- **Export of packed tender coconut water**
  Rs.187 lakhs (2014-15)

- **Export Incentive :**
  3% of FOB value under Merchandise Export from India Scheme (MEIS)

GLOBAL BRANDS




blue monkey
100% Natural
pure coconut water
eau de noix de coco
JUMEX
Worldwide Excellence in Quality
JUICE
Coconut
With Pulp
10.5 FL OZ (310 mL)
JCS
REGGAE COUNTRY STYLE
BRAND
JELLY
COCONUT WATER
with pulp
Jus de noix de coco avec la chair
NET WT. 11.2 FL. OZ. / NET 330 mL
Roland
Coconut
Water
Agua de Coco
with pulp
con pulpa
NET 11.8 FL. OZ. (350mL)
NET 11.8 FL. OZ. (350mL)


Real Coconut Water
REVIVE
REFUEL
NATURE FACTOR
ORGANIC COCONUT WATER
USDA ORGANIC
ISOTONIC SPORTS DRINK
10 FL OZ 300ml
ULTIMATE HYDRATION
*Ounce per Ounce, HALF THE PRICE of Coconut Water!
COCO HYDRO™
INSTANT
COCONUT WATER
Electrolyte Drink
original
≈25 Servings
COCONUT
Aloe Pulp Juice


MICOCO
MICOCO
MICOCO


jamba
Apple
& Greens
O.N.E. Coconut Water
Fruit Juice Beverage
*Rich in Vitamin C
16.9 FL OZ (500mL)


O.N.E.
ONE NATURAL EXPERIENCE
KIDS
Super hydrating!
6.75 oz
(200 ml)
NO SUGAR ADDED
ORANGE
COCONUT WATER


smooze!
fruit ice
coconut + pink guava
Serve FROZEN
100% Natural with Real Fruit Purees & Juices
• rich in vitamin C
• dairy free
• gluten free
• no preservatives
• no cholesterol
• no trans fat
• low fat
8 servings
2.2 fl oz (65ml)
total net wt. 17.6 fl oz (552g)


smooze!
fruit ice
coconut + mango
Serve FROZEN
100% Natural with Real Fruit Purees & Juices
• rich in vitamin C
• dairy free
• gluten free
• no preservatives
• no cholesterol
• no trans fat
• low fat
8 servings
2.2 fl oz (65ml)
total net wt. 17.6 fl oz (552g)


smooze!
fruit ice
coconut + pineapple
Serve FROZEN
100% Natural with Real Fruit Purees & Juices
• rich in vitamin C
• dairy free
• gluten free
• no preservatives
• no cholesterol
• no trans fat
• low fat
8 servings
2.2 fl oz (65ml)
total net wt. 17.6 fl oz (552g)
Lakewood
ORGANIC
Fresh Blends
COCONUT
Juice Blend
• Fresh Pressed Coconut

Benefits | ZICO: Pure Coc | Vita Coco Coconut Water | O.N.E. Coconut Water: 10

www.zico.com/products/benefits

BENEFITS
PRODUCTS
RECIPES
FAQS



HEALTH BENEFITS OF ZICO



For more than 4,000 years, coconut water has been revered as a natural source of nutrition, wellness, beauty and hydration. In times of famine and war, coconut water has been used as an intravenous fluid and saved many lives. It's the only natural substance that can be safely injected into the human blood stream. Now modern science has validated its effectiveness, especially as a natural sports drink.

ZICO contains the five essential electrolytes that gives your body everything it needs to stay hydrated and perform at your best. One ZICO has more potassium than a banana – 15 times more than most sports drinks – to prevent cramping. Drink ZICO before or during a workout for the natural energy you need for optimal performance. After a workout, ZICO replenishes and re-hydrates you to speed recovery.

569 mg

PACKED WITH POTASSIUM

> 1 banana
= 15 regular sports drinks

5

5 ESSENTIAL ELECTROLYTES

sodium, magnesium, calcium, potassium, phosphorus

0

LOTS OF ZEROS

ZERO fat, ZERO cholesterol and ZERO added sugar

THE ULTIMATE HYDRATION DRINK

supports rapid hydration

ALL NATURAL

Coconut water has been used as an intravenous fluid and saved lives

5 pH

LOW ACID

lower acidity than sports drinks and juices

The new ZICO bottle is made from recycled materials and can be fully recycled after use.

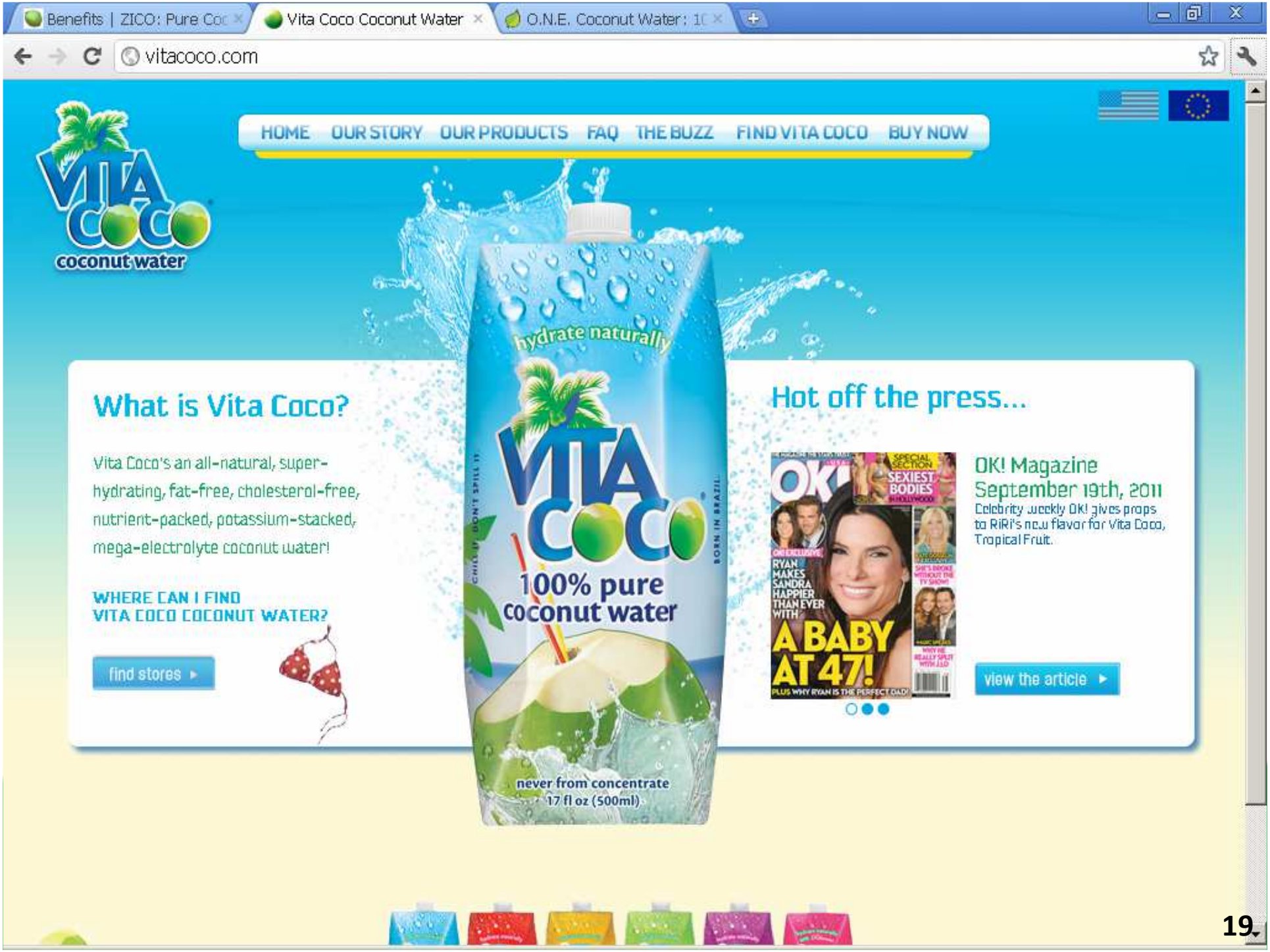
5 pH

ZICO has lower acidity than sports drinks and juices. Click here to read more ZICO health benefits.

Join thousands of athletes around the world and take the pledge to be natural.



@ZICOla | @ZICOny | @ZICOmia | Contact Us | Privacy Policy | © 2011 ZICO. All rights reserved.


Benefits | ZICO: Pure Coc
Vita Coco Coconut Water
O.N.E. Coconut Water: 1C
vitacoco.com
VITA COCO
coconut water
HOME
OUR STORY
OUR PRODUCTS
FAQ
THE BUZZ
FIND VITA COCO
BUY NOW
hydrate naturally
VITA COCO
100% pure coconut water
never from concentrate
17 fl oz (500ml)
What is Vita Coco?
Vita Coco's an all-natural, super-hydrating, fat-free, cholesterol-free, nutrient-packed, potassium-stacked, mega-electrolyte coconut water!
WHERE CAN I FIND VITA COCO COCONUT WATER?
find stores
Hot off the press...
OK!
SPECIAL SECTION
SEXIEST BODIES
RYAN MAKES SANDRA HAPPIER THAN EVER WITH
A BABY AT 47!
PLUS WHY RYAN IS THE PERFECT DAD!
OK! Magazine
September 19th, 2011
Celebrity weekly OK! gives props to RiRi's new flavor for Vita Coco, Tropical Fruit.
view the article

Benefits | ZICO: Pure Coc | Vita Coco Coconut Water | O.N.E. Coconut Water: 10

www.onedrinks.com

follow us

O.N.E. COCONUT WATER

O.N.E. drinks | health benefits | about O.N.E. | O.N.E. news | liquid revolution | U R the O.N.E. | buy O.N.E. | recipes



liquidrevolution

MOVE. DRINK. GIVE.

with awareness and gratitude knowing the benefits of O.N.E. Coconut Water. Drink healthy, natural beverages like O.N.E. Coconut Water, produced in ways that support farmers, the environment and our health.

LEARN MORE

$1* to HEALTHY CHILD HEALTHY WORLD

Like us on Facebook and we'll donate



View the Liquid Revolution "Origins" video.



O.N.E. uses Tetra Pak

The most environmentally friendly packaging.

*Legal Information

www.onedrinks.com/sustainable-food-living/

PACKAGED COCONUT MILK / CREAM



- **Ready to use product for household recipes, beverages, ice creams, sweets, desserts etc.**
- **Fresh taste of coconut**
- **Very convenient for house holds, hotels, bakeries.**
- **Blends easily with food preparation.**
- **Keeps fresh for a period of 6 months with all nutrients intact.**

Yield of products/by-products

- Raw material: 10,000 ripe green coconuts
- Coconut cream (main product) 2,500 kg
- Coconut cream residue 500 kg

Export Incentive :

5% of FOB value under Merchandise Export from India Scheme (MEIS)

GLOBAL BRANDS OF COCONUT MILK

So delicious Dairy free" , U.S based company bringing out 58 flavours of Coconut milk *as milk beverages, milk desserts, cultured coconut milk, milk creamers and culinary coconut milk*



FROZEN DESSERTS














BRAND
AROY-D
อร่อย-ดี
COCONUT MILK
100%
ORIGINAL
NET. 8.5 FL. OZ (250 mL)


THAI
KITCHEN
Lite Coconut Milk
40% LESS CALORIES AND FAT
NET WT. 14 FL. OZ. (414 mL)


Roi
ตรา รอยไทย
Thai
PACKAGED BY HYGIENIC UHT SYSTEM
Coconut Milk
KOKONUSSMILCH
LAIT DE NOIX DE COCO
椰漿 SANTAN
No Cholesterol
Trans fat
NET CONTENT 500 ml. (16.9FL.OZ.)

SPRAY DRIED COCONUT MILK POWDER





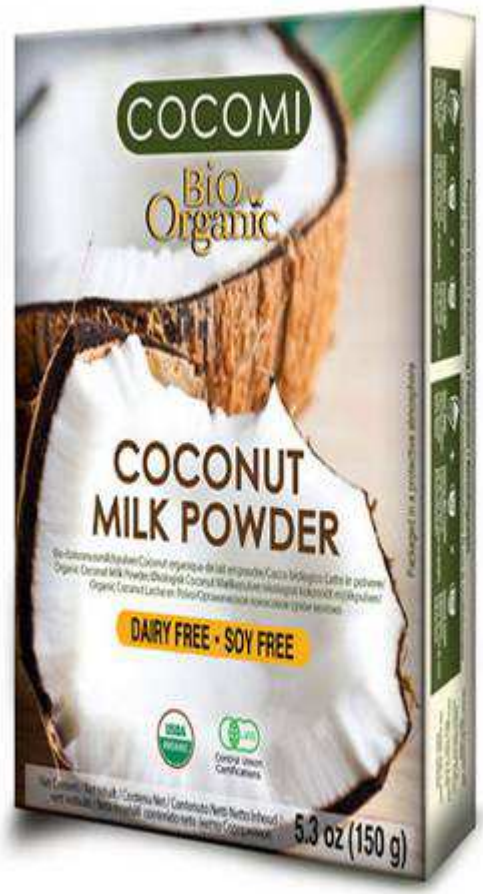
- **Highly convenient to use for households / hotels, bakeries and ice cream parlours.**
- **Reconstitute quickly with water for instant use.**
- **Occupies less storage space.**
- **Highly economical for bulk consumer.**
- **Keeps fresh for a period up to 1 year.**

Product yield

20000 coconuts would yield about 1000 kgs of coconut milk powder

Export Incentive :

5% of FOB value under Merchandise Export from India Scheme (MEIS)







DESICCATED COCONUT



- Dehydrated shredded flesh of coconut
- Used as a substitute to grated coconut in food preparations such as curries, cakes, sweets and chutneys
- Exports Rs.42.42crores from India (2014-15)
- Yield
  - Raw material 10,000 coconuts
  - Desiccated coconut 1 MT
- Export Incentive :
  - 5% of FOB value under Merchandise Export from India Scheme (MEIS)

COCONUT OIL



Yield

Raw material **5 tonnes of copra**

Finished product 3 tonnes Coconut oil

COCONUT SHELL POWDER



- **Manufactured from matured coconut shells**
- **Extensive use in plywood and laminated board industry as a phenolic extruder and as a filler in synthetic resin glues, mosquito coils and agarbathis.**
- **Preferred because of its uniformity in quality and chemical composition, better properties in respect of water absorption and resistance to fungal attack.**

Yield

Raw material	**12,000 shell**
Shell powder	**1 tonne**

COCONUT SHELL CHARCOAL



- **Ideal raw material for high quality activated carbon.**
- **Manufactured by burning shells of fully matured nuts in limited supply of air sufficient only for carbonisation, but not for complete destruction.**

- **Yield**
- **30,000 coconut shells yield**
- **1 tonne shell charcoal**

- **Export Incentive :**
  - **5% of FOB value under Merchandise Export from India Scheme (MEIS)**

ACTIVATED CARBON



- It is a non-graphite form of carbon which produced from any carbonaceous material such as coal, lignite, wood,paddy husk, coir pith, coconut shell, etc.
- Activated carbon manufactured from coconut shell is considered superior to those obtained from other sources.

ACTIVATED CARBON



- Activated carbon is widely used in the refining and bleaching of vegetable oils and chemical solutions.
- 26 units are functioning in the country.
- Present Export (2014-15) - 450 Crores
- Export expected in (2015-16) – 650 Crores
- Anticipated annual growth in export 20%

Yield

9MT coconut shells – 3MT shell charcoal

3MT Shell Charcoal--- 1 MT Activated Carbon

Export Incentive :

2% of FOB value under Merchandise Export from India Scheme (MEIS)

NEERA AND NEERA PRODUCTS



- *A sweet sap obtained from unopened coconut inflorescence*
- *Honey colored during the time of extraction*
- *A Natural health drink rich in Energy, Vitamins and Minerals*
- *Sugar containing delicious health drink with 0% alcohol*
- *Only natural drink with Vitamins A, B, C together*
- *Rich in iron, phosphorus and ascorbic acid*
- *Low in Glycemic Index (GI 35)*

NEERA AND NEERA PRODUCTS









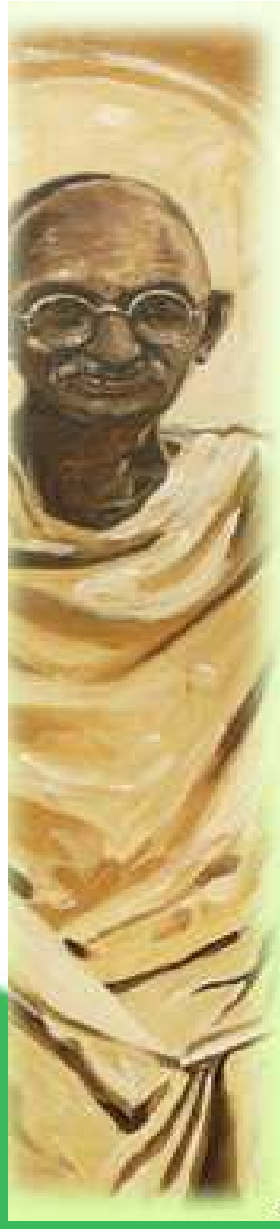








Gandhiji as brand ambassador for Philippine coconut palm sugar



According to Gandhi, coconut blossom sugar provides a way to solve the world's poverty, as an antidote against misery.

"The juice of the coconut tree can be transformed into a sugar as soft as honey... Nature created this product such that it could not be processed in factories. Palm sugar can only be produced in palm tree habitats. ***Local populations can easily turn the nectar into coconut blossom sugar. It is a way to solve the world's poverty. It is also an antidote against misery."***

Mohan das K. Gandhi 3.5.1939

Mahatma Gandhi largely experimented with food; it was important to him. His personal diet was vegetarian and consisted of 1 litre of goat's milk; 150g wheat and rice; 75g leaf vegetables; 125g other vegetables; 25g lettuce; 40g ghee and 40-50g coconut blossom sugar.

Excerpts from Internet: http://www.noble-house.tk



36


PRODUCT BRANDS
GLOBALLY AVAILABLE
longlife
palm
sugar
Palm Sugar
Indonesia
Organic
Sweetener
Thailand
SWEET TREE
ORGANIC
COCONUT
PALM SUGAR
Indonesia
DIVINE ORGANICS
COCONUT
Sugar
Thailand
PALM SUGAR
Thailand

Potential Income to Coconut Farmers

	Yield/palm/day					
	1.5	2	2.5	3	3.5	4
Farmer's income per litre (Rs)	Monthly income earned by a farmer per palm (Rs.)					
30	1350	1800	2250	2700	3150	3600
25	1125	1500	1875	2250	2625	3000
20	900	1200	1500	1800	2100	2400

POTENTIAL INCOME TO NEERA TECHNICIANS

No. of palms tapped	Yield per palm/day (litres)					
	1.5	2	2.5	3	3.5	4
	Monthly income earned by a technician (Rs)					
10	11580	13380	15180	16980	19980	22980
12	12660	14820	16980	20580	24180	27780
15	14280	16980	21480	25980	30480	34980
18	15900	20580	25980	31380	37230	43980

Assumptions

- Neera technician tapping at least 10 palms per day will get Rs 350/- per day irrespective of yield.
- Yield above 12 litres per day will fetch them an incentive of Rs 12/- for every additional litre of Neera, up to 30 litres.
- Yield above 30 litres per day will fetch them an incentive of Rs 20/- for every additional litre of Neera, upto 60 litres.
- Yield above 60 litres per day will fetch them an incentive of Rs 25/- for every additional litre of Neera.
- A neera technician has more than 50% chance to earn more than Rs 20,000/- a month.

39

Tom Thomas, coconut farmer and share holder, M/s.Palakkad Coconut Producer Company Ltd., Muthalamada, Palakkad

Income during the previous months	
June 2014	Rs. 16500/-
July 2014	Rs. 46350/-
August 2014	Rs. 55000/-
September 2014	Rs. 49516/-
October 2014	Rs 47392/-
November 2014	Rs.45400/-
December 2014	Rs.42088/-
January 2015	Rs.44322/-
February 2015	Rs.43712/-
March 2015	Rs.44254/-
April 2015	Rs.45323/-



Average returns per palm per month - Rs. 2511/-

Madhavankutty, a coconut farmer and shareholder of Kaippuzha Coconut Producer Company Ltd.from, Kollam district, Kerala earned Rs.87,537/- in a month by producing Neera from 17 palms.



Shri Suresh, Neera technician from Perumatty CPF,Palakkad, Kerala earning Rs.30,000/ -by tapping 12 palms



സുരേഷ് (വയസ് –38) നീര ടെക്നീഷ്യൻ, പൂമ്പറ്റ, വിളയോടി, ചിറ്റൂർ, പാലക്കാട് ഫെഡറേഷൻ – പെരുമാട്ടി

ടാപ്പു ചെയ്യുന്ന തെങ്ങുകൾ	പ്രതിദിന ശരാശരി ഉത്പാദനം (ലീറ്റർ)	2015 മെയ് മാസ വരുമാനം (രൂപ)
12	40	30000

Shri Gopinath S., Neera Technician earned Rs 1,20,000/- from 37 palms



ഗോപിനാഥ് എസ് (വയസ് – 44) പുത്തൻവീട്,
പുതുശേരി, ചിറ്റൂർ, പാലക്കാട്.
സംഘം – വിളയോടി, ഫെഡറേഷൻ – പെരുമാട്ടി

ടാപ്പു ചെയ്യുന്ന തെങ്ങുകൾ	പ്രതിദിന ശരാശരി ഉത്പാദനം (ലീറ്റർ)	2015 മെയ് മാസ വരുമാനം (രൂപ)
37	150	120000



Shri.Kunjikrishnan, Kuttiady CPC, Kozhikode , Kerala near the palm which yielded 13L of Neera per day with Neera Technician Shri. Ratheesh

Women neera technicians earning more than Rs 22,000 per month





Average per palm income of the coconut farmer in Andhra Pradesh

- **Coconut productivity per palm per year in Andhra Pradesh = 88 nuts**
- **Assuming that a coconut will fetch Rs. 10/-, annual income from a coconut palm is 88 x 10 = Rs. 880/-**

Income for a farmer from a palm when neera extracted

- **Assuming that the palm is used for extracting Neera for six months (180 days) and 1 liter of Neera is obtained from a single palm per day.**
- **Farmers income from Neera = Rs 30/- per Liter**
- **Coconuts produced during the remaining six months = 44 (50% of annual production)**

Farmers Income from a palm per year

Farmers income from Neera = 180 x 30 = Rs. 5400/-

Farmers income from coconut = 44 x 10 = Rs. 440/-

Total Income from the palm = 5400 + 440 = Rs. 5840/-

- **Therefore the additional income to the farmers from a palm if Neera is extracted for six months in a year = Rs. 4960/-**

  (Rs.5840/- minus Rs.880/-)

- **Percentage increase in income = 563.63% (That is income enhanced to more than 5 times)**

Benefit to the farmers of Andhra Pradesh when the coconut palms are used for coconut production

- **Total number of coconut palms in Andhra Pradesh = 2.07 Crores**
- **Coconut productivity per palm = 88**
- **Selling price of coconut = Rs 10/-**
- **Total income of farmers from coconut :**

  Rs. 1821.60 Crores

Additional income to the farmers of Andhra Pradesh if Neera extracted from10% of the coconut palms

- **If 10% of the palm in Andhra Pradesh (20.73 lakhs) is used for Neera production**
- **Assuming Neera productivity per palm per day = 1 litre**
- **Neera productivity per palm per year = 300 litre**
- **Farmers income from Neera = Rs 30/ litre**
- **Income from Neera = Rs.1865.70 Crores**
- **Income from coconuts from rest of the palms (186.57 lakhs)**

  = Rs. 1641.81 Crores
- **Total Income = Rs. 3507.51 Crores**

(Rs.1865.70 Crores + Rs. 1641.81 Crores)

Additional income to the farmers of Andhra Pradesh if Neera extracted from10% of the coconut palms

- **Therefore the additional income to the farmers of Andhra Pradesh, if Neera is extracted from 10% of the palms**

  = Rs. 1685.91 Crores

  (Rs. 3507.51 Crores - Rs. 1821.60 Crores)

- **Percentage of increase in income = 92% (Income is almost doubled)**

Technology Mission on Coconut (TMOC.)

- The Govt. of India sanctioned the Central Sector Scheme “Technology Mission on Coconut” (TMOC) during the year 2001-02 (January 2002)
- Mission program launched in support of entrepreneurs/ industrialists/ product manufacturers
- Provides technical and financial support
- Covers areas like pest and disease management, product diversification, market research and market promotion
- Extends 25% grant in aid for adoption of technologies for value addition

PRODUCTS ELIGIBLE FOR GRANT IN AID UNDER TMOC.

Water based	Kernel based	Inflorescence sap (Neera) based	Shell based
Packed Tender Coconut Water, Coconut Vinegar, Nata de coco etc.	Coconut Oil (FPOs),Virgin Coconut Oil, Desiccated Coconut, Ball Copra, Coconut Cream, Coconut Milk Powder etc.	Neera beverage and Neera based value added products etc.	Shell Powder, Shell Charcoal, Activated Carbon, etc.

PATTERN OF ASSISTANCE

Programme I

Management of Insect Pests and Disease affected gardens

Development of technologies	Demonstration of technologies	Adoption of technologies
o 100% of the cost of project limited to Rs. 50.00 lakhs for ICAR/ SAU's/State Depts. & cooperative sector. o 50 % of the cost of project limited to Rs.25 lakhs for NGO's and other organisations	o 100% of the cost limited to Rs.25 lakh projects to ICAR/ SAU's/State Depts. /other related public sector units/Registered cooperative societies. o 50% of the cost for individuals / group of farmers/NGO's, private companies limited to Rs.10 lakh.	o 25% of the cost of technology adoption. o 25% of the cost in case of FPO's/ NGO's/other organizations.

Programme II-Processing and product diversification

Development of technologies	Demonstration of technologies	Adoption of technologies
-100% of the project cost limited to Rs.75 lakhs for Govt. institutions & societies. - 75% of the project cost limited to Rs.35 lakhs for NGO's, Individual entrepreneurs and other research organizations	- 100% of the cost to all the Govt.institutions and cooperative societies. - 50% of the cost for the NGO's, Individual entrepreneurs and other organizations.	a) Back-ended credit capital subsidy limited to 25% of the project cost b) For SC/ST Women farmers, 33.3% of project cost, 50% for HVA in A&N islands & Lakshadweep , not exceeding Rs.50 lakhs

Programme III -Market research and Promotion



a) Market research

- 100% of the cost limited to Rs.25 lakhs for Govt. agencies and cooperative societies.
- 50% of the cost limited to Rs.12.50 lakhs for Individuals, NGO's and other organizations.

(b) Market Promotion

- 100% of the cost limited to Rs.25 lakhs for Govt. agencies and Cooperative Societies
- 50% of cost limited to Rs 6.00 lakhs for FPO'S
- 50% of the cost limited to Rs.15 lakhs for NGO's and private institutes.

Support for establishment of Coconut Points

- **50% of the total project cost limited to 1.5 lakhs is provided under Market Promotion for Coconut Points.**





IMPACT OF TECHNOLOGY MISSION

New Coconut Product / Technology developed

- Preservation and packaging of tender coconut water and automation (DFRL)
- Virgin Coconut Oil and Coconut flour (CFTRI)
- Spray Dried Milk powder (CFTRI)
- Coconut oil blends (CFTRI)
- Coconut honey from matured coconut water, Coconut spread from matured coconut water, Coconut lessi for tender coconut, Coconut souffle, Whey-protein powder, Wet chutney powder (CFTRI)
- Neera, Neera Honey and Palm sugar (SIBBR&D)
- Packed Neera (CDB Institute of Technology)

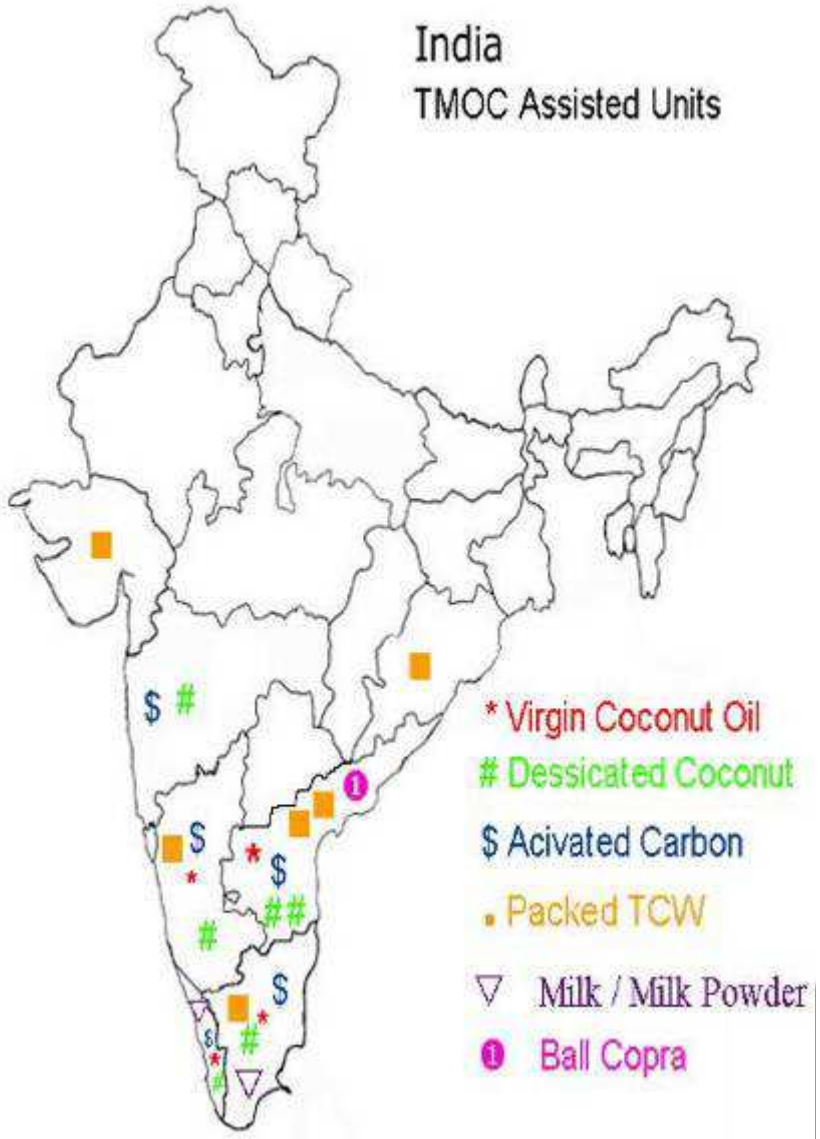


Documents to be furnished for assistance under TMOC

- Application along with Detailed Project Report(DPR).
- Term loan sanction letter for minimum 40% of total project cost from a recognized Financial Institution/Bank of promoters choice with appraisal report.
- Proforma invoice and list of plant and machinery to be installed.
- Plan and estimate for building / civil works prepared by a Charted Engineer.
- No objection certificate from Pollution Control Board if applicable.
- Statutory approvals from the concerned Department.

Highlights –TMOC
(2001 to Aug 2015)

- **Establishment of 334 Coconut Processing Units**
  - **Infrastructure facilities worth Rs.398.1Cr.**
  - **Processing capacity of 2136.15 million nuts per year**
  - **Assistance of Rs.51.15 crores extended.**
- **26 Tender Coconut Preserving and Packing Units**
  - **capacity to process 128.7 million tender nuts per year.**
- **17 Coconut Shell Powder units**
  - **capacity to produce 54960 MT per year.**
- **26 Activated Carbon units**
  - **capacity to produce 80100 MT per year**



Coconut Processing units assisted under TMOC (2002-2015)

S.No.	Product	No. of units
1	Copra & Coconut oil	79
2	Desiccated coconut powder	78
3	Virgin Coconut Oil	38
4	Ball copra	34
5	Packed Tender Coconut Water	26
6	Coconut Chips	5
7	Coconut Vinegar	6
8	Neera processing and packing units	4
9	Coconut Milk Powder	1
10	Coconut Shell based Activated Carbon	26
11	Coconut Shell charcoal	20
12	Coconut Shell powder	17
	Total	334

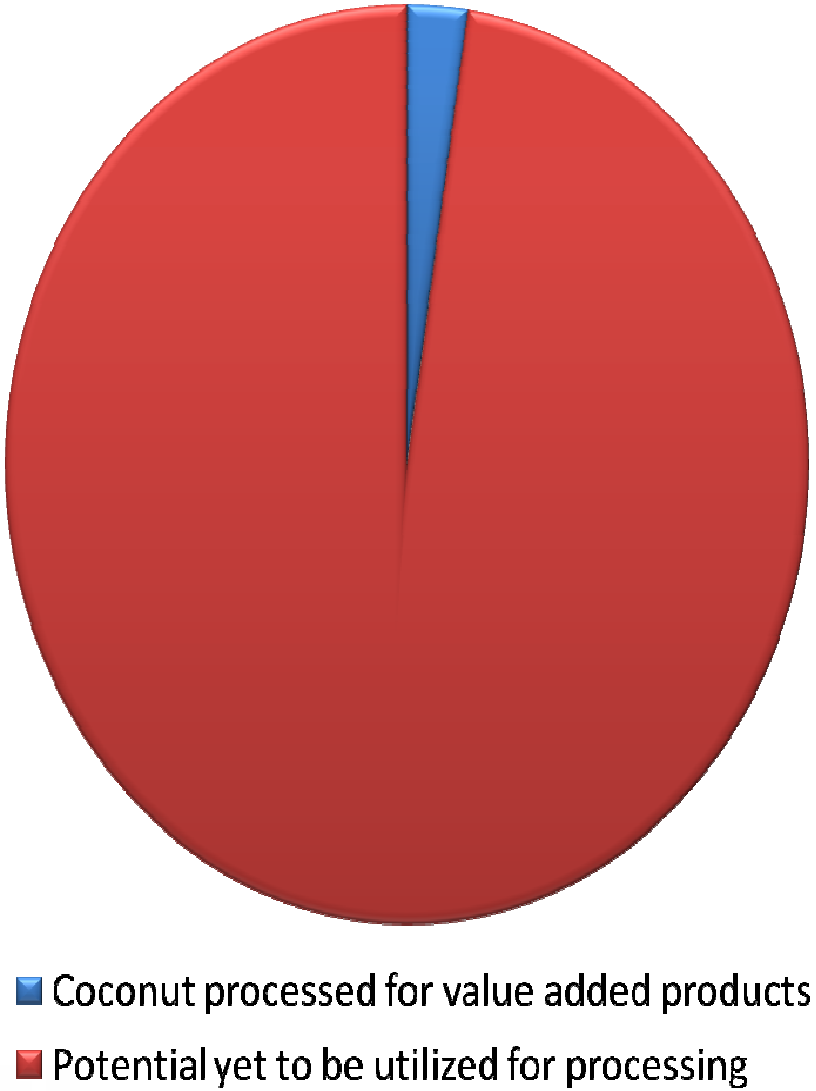
PROCESSING UNITS ASSISTED IN ANDHRA PRADESH

Sl. No.	Name of the Unit & Address	Capacity (Nuts/ day)	Total Project Cost (in Lakhs)	Subsidy sanctioned (in Lakhs)	Subsidy released (in Lakhs)
	Virgin Coconut Oil				
1	M/s.Sritara Agrotech,Ongole,AP	25000	191.50	39.67	39.67
	Tender Coconut water				
2	M/s.Anu Coco Food Products Pvt.Ltd,Hyderabad	25000	385.68	43.62	40.74
3	M/s.Sri Jayalakshmi, W.Godavari	10000	115.00	26.00	23.40
	Activated Carbon				
4	M/s.Rachamallu Carbons Pvt. Banjara Hills, Hyderabad.	8 MT A.C/day	484.30	50.00	45.00
	Shell Powder				
5	Sri Soubhagya Agro Foods & Minerals Pvt Ltd, Visakhapatnam	10 T shells / day	76.83	16.52	11.98
	Dessiccated Coconut				
6	M/s. Sree Agro Products Pvt. Ltd., W.G.Dist.	40000	328.93	10.91	9.78
7	Sree Konaseema Coconut Food Products, Ambajipet Mandal, E.G. Dist, AP	12000	44.00	6.20	5.58

Sl. No.	Name of the Unit & Address	Total Project Cost (in Lakhs)	Subsidy sanctioned (in Lakhs)	Subsidy released (in Lakhs)
	Ball Copra			
8	Smt.A Rukmini Devi, Mandal, (Via)Sivakodu, Andhra Pradesh	10.60	2.65	2.65
9	Shri. Maturi Narayana Murty, Rama Chandra Colony, Palakol.	33.00	8.12	8.12
10	Shri. Gokavarapu Venkata Ramana Murthy, Machavaram Panchayath, Ambajipeta E. Godavari Dist, Andhra Pradesh	12.50	2.16	2.16
11	Shri Appana Naga Venkateswara Rao, AVR & CO. – Copra Merchant, Ambajipetta, East Godavari A.P	23.00	3.25	2.92
12	Shri. Pedamallu Venkateswara Rao, S/o. Rama Murthy, Pasarlapudilanka, Mamidikuduru Mandal,E. Godavari Dist, Andhra Pradesh	12.80	3.20	2.88
13	Shri.Sushil Goyal, S/o. Shri.Jagadish Prasad, Rajasthan Coco Co., Coconut & Copra Merchants, Muktheswaram, Amalapuram Tk, E. G. Dist, Andhra Pradesh	15.00	3.12	1.56
14	M/s. Sri Venkata Lakshmi Traders, Canal Road, Vedangi, Poduru Mandal, West Godavari Dist, Andhra Pradesh	28.87	7.02	7.02
15	Smt. Kasa Renuka Durga Devi, W/o.Shri. Satyanarayana, Aryapet Panchayat, Elamanchili Mandal, W.G. Dist, Andhra Pradesh	25.74	6.43	5.79
16	Shri. Kankipati Adinarayana,Allavarm, EG Dist. AP	20.00	5.00	2.50
17	Shri. Appana Venkata Raju & Appana Sudhakar Rao, Ambajipeta, E.G. District, AP	31.00	7.75	3.87

Sl. No.	Name of the Unit & Address	Total Project Cost (in Lakhs)	Subsidy sanctioned (in Lakhs)	Subsidy released (in Lakhs)
	Ball Copra			
18	Shri. Pedamallu Bhramanandham, E.G. District, AP	**36.00**	**5.97**	**2.98**
19	Smt. Naga Satya Sai, E.G., AP	**19.50**	**3.62**	**1.81**
20	Shri. Pedamallu Venkatarama , E.G.,A.P	**12.00**	**3.00**	**1.50**
21	Shri . Bhavaraju Manorama , E.G.,A.P	**25.30**	**3.67**	**1.83**
22	Shri. Bonam Suryanarayana Moorthi, E.G., A.P	**37.70**	**5.67**	**2.83**
	Total	**1969.25**	**263.58**	**226.61**

- **44.01 Million Nuts per year processed for value added products such as Ball Copra, VCO, DC,TCW.**
- **24,600 MT of shell per year processed for activated carbon , shell charcoal and shell powder.**



Total coconut production in Andhra Pradesh	Processing capacity developed for value added Products with the support of TMOC	Processing Capacity in Percentage of total production
Million Nuts (2013 – 2014)		
1828.46	44.02	2.41%

CONCLUSION

- **Raw material availability is plenty. Huge potential for value addition and product diversification.**
- **Availability of state of the art technology.**
- **Financial support from Central and State Government agencies.**
- **Big domestic market for value added products.**
- **Potential for export of value added products.**
- **Export incentive schemes of Government of India.**
- **FPO's for aggregation of produce and value addition activities.**

THANK YOU



COCONUT DEVELOPMENT BOARD
(Ministry of Agriculture, Government of India)
Kera Bhavan, SRVHS Road, Kochi - 682 011, Kerala, India
Tel: 91-484-2376265, 2376553, 2377267, Email: cdbkochi@dataone.in