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
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
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 bloodstream. 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 – 16 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 rehydrates you to speed recovery.

569 mg
PACKED WITH POTASSIUM
> 1 banana
> 16 regular sports drinks

5
ESSENTIAL ELECTROLYTES
sodium, magnesium, calcium, potassium, phosphorus

5
THE ULTIMATE HYDRATION DRINK
supports rapid hydration

0
LOTS OF ZEROES
ZERO fat, ZERO cholesterol and ZERO added sugar

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

LOW ACID
lower acidity than sports drinks and juices

ZICO
NATURALLY POWERED
What is Vita Coco?

Vita Coco is 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! Magazine
September 10th, 2011
Celebrity weekly OK! gives props to RR's new flavor for Vita Coco, Tropical Fruit.

view the article
O.N.E. Coconut Water

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

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 households, 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
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)
Dehydrated shredded flesh of coconut

Used as a substitute to grated coconut in food preparations such as curries, cakes, sweets and chutneys

Exports Rs.42.42 crores 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)
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**

<table>
<thead>
<tr>
<th>Raw material</th>
<th>12,000 shell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell powder</td>
<td>1 tonne</td>
</tr>
</tbody>
</table>
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)
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
## Potential Income to Coconut Farmers

<table>
<thead>
<tr>
<th>Farmer’s income per litre (Rs)</th>
<th>Monthly income earned by a farmer per palm (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yield/palm/day</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
</tr>
<tr>
<td>30</td>
<td>1350</td>
</tr>
<tr>
<td>25</td>
<td>1125</td>
</tr>
<tr>
<td>20</td>
<td>900</td>
</tr>
</tbody>
</table>
## POTENTIAL INCOME TO NEERA TECHNICIANS

<table>
<thead>
<tr>
<th>No. of palms tapped</th>
<th>Yield per palm/day (litres)</th>
<th>Monthly income earned by a technician (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>11580</td>
<td>13380</td>
</tr>
<tr>
<td>12</td>
<td>12660</td>
<td>14820</td>
</tr>
<tr>
<td>15</td>
<td>14280</td>
<td>16980</td>
</tr>
<tr>
<td>18</td>
<td>15900</td>
<td>20580</td>
</tr>
</tbody>
</table>

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

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

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
Shri Gopinath S., Neera Technician earned Rs 1,20,000/- from 37 palms
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 $88 \times 10 = Rs. 880/-$
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 from 10% 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 from 10% of the coconut palms**

- Therefore the additional income to the farmers of Andhra Pradesh, if Neera is extracted from 10% of the palms
  
  \[
  \text{Income} = \text{Rs. } 1685.91 \text{ Crores} \\
  \text{(Rs. } 3507.51 \text{ Crores - Rs. } 1821.60 \text{ Crores)}
  \]

- **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

<table>
<thead>
<tr>
<th>Water based</th>
<th>Kernel based</th>
<th>Inflorescence sap (Neera) based</th>
<th>Shell based</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packed Tender Coconut Water, Coconut Vinegar, Nata de coco etc.</td>
<td>Coconut Oil (FPOs), Virgin Coconut Oil, Desiccated Coconut, Ball Copra, Coconut Cream, Coconut Milk Powder etc.</td>
<td>Neera beverage and Neera based value added products etc.</td>
<td>Shell Powder, Shell Charcoal, Activated Carbon, etc.</td>
</tr>
</tbody>
</table>
# Programme I
**Management of Insect Pests and Disease affected gardens**

<table>
<thead>
<tr>
<th>Development of technologies</th>
<th>Demonstration of technologies</th>
<th>Adoption of technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 100% of the cost of project limited to Rs. 50.00 lakhs for ICAR/SAU’s/State Depts. &amp; cooperative sector.</td>
<td>- 100% of the cost limited to Rs.25 lakh projects to ICAR/SAU’s/State Depts./other related public sector units/Registered cooperative societies.</td>
<td>- 25% of the cost of technology adoption.</td>
</tr>
<tr>
<td>- 50% of the cost of project limited to Rs.25 lakhs for NGO’s and other organisations</td>
<td>- 50% of the cost for individuals/group of farmers/NGO’s, private companies limited to Rs.10 lakh.</td>
<td>- 25% of the cost in case of FPO’s/NGO’s/other organizations.</td>
</tr>
<tr>
<td>Development of technologies</td>
<td>Demonstration of technologies</td>
<td>Adoption of technologies</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>-100% of the project cost limited to Rs.75 lakhs for Govt. institutions &amp; societies.</td>
<td>-100% of the cost to all the Govt. institutions and cooperative societies. -50% of the cost for the NGO’s, Individual entrepreneurs and other research organizations.</td>
<td>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&amp;N islands &amp; Lakshadweep, not exceeding Rs.50 lakhs.</td>
</tr>
</tbody>
</table>
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.
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 Chartered 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)

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Product</th>
<th>No. of units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Copra &amp; Coconut oil</td>
<td>79</td>
</tr>
<tr>
<td>2</td>
<td>Desiccated coconut powder</td>
<td>78</td>
</tr>
<tr>
<td>3</td>
<td>Virgin Coconut Oil</td>
<td>38</td>
</tr>
<tr>
<td>4</td>
<td>Ball copra</td>
<td>34</td>
</tr>
<tr>
<td>5</td>
<td>Packed Tender Coconut Water</td>
<td>26</td>
</tr>
<tr>
<td>6</td>
<td>Coconut Chips</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Coconut Vinegar</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>Neera processing and packing units</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>Coconut Milk Powder</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Coconut Shell based Activated Carbon</td>
<td>26</td>
</tr>
<tr>
<td>11</td>
<td>Coconut Shell charcoal</td>
<td>20</td>
</tr>
<tr>
<td>12</td>
<td>Coconut Shell powder</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>334</strong></td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Name of the Unit &amp; Address</td>
<td>Capacity (Nuts/ day)</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>1</td>
<td>Virgin Coconut Oil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M/s. Sritara Agrotech, Ongole, AP</td>
<td>25000</td>
</tr>
<tr>
<td>2</td>
<td>Tender Coconut water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M/s. Anu Coco Food Products Pvt. Ltd, Hyderabad</td>
<td>25000</td>
</tr>
<tr>
<td>3</td>
<td>M/s. Sri Jayalakshmi, W. Godavari</td>
<td>10000</td>
</tr>
<tr>
<td>4</td>
<td>Activated Carbon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M/s. Rachamallu Carbons Pvt. Banjara Hills, Hyderabad</td>
<td>8 MT A.C/day</td>
</tr>
<tr>
<td>5</td>
<td>Shell Powder</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sri Soubhagya Agro Foods &amp; Minerals Pvt Ltd, Visakhapatnam</td>
<td>10 T shells / day</td>
</tr>
<tr>
<td>6</td>
<td>Dessicated Coconut</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M/s. Sree Agro Products Pvt. Ltd., W.G.Dist.</td>
<td>40000</td>
</tr>
<tr>
<td>7</td>
<td>Sree Konaseema Coconut Food Products, Ambajipet Mandal, E.G. Dist, AP</td>
<td>12000</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Name of the Unit &amp; Address</td>
<td>Total Project Cost (in Lakhs)</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>8</td>
<td>Smt. A Rukmini Devi, Mandal, (Via) Sivakodu, Andhra Pradesh</td>
<td>10.60</td>
</tr>
<tr>
<td>9</td>
<td>Shri. Maturi Narayana Murty, Rama Chandra Colony, Palakol.</td>
<td>33.00</td>
</tr>
<tr>
<td>10</td>
<td>Shri. Gokavarapu Venkata Ramana Murthy, Machavaram Panchayath, Ambajipeta E. Godavari Dist, Andhra Pradesh</td>
<td>12.50</td>
</tr>
<tr>
<td>11</td>
<td>Shri Appana Naga Venkateswara Rao, AVR &amp; CO. – Copra Merchant, Ambajipetta, East Godavari A.P</td>
<td>23.00</td>
</tr>
<tr>
<td>12</td>
<td>Shri. Pedamallu Venkateswara Rao, S/o. Rama Murthy, Pasarlapudilanka, Mamidikuduru Mandal, E. Godavari Dist, Andhra Pradesh</td>
<td>12.80</td>
</tr>
<tr>
<td>13</td>
<td>Shri. Sushil Goyal, S/o. Shri. Jagadish Prasad, Rajasthan Coco Co., Coconut &amp; Copra Merchants, Muktheswaram, AmalapuramTk, E. G. Dist, Andhra Pradesh</td>
<td>15.00</td>
</tr>
<tr>
<td>14</td>
<td>M/s. Sri Venkata Lakshmi Traders, Canal Road, Vedangi, Poduru Mandal, West Godavari Dist, Andhra Pradesh</td>
<td>28.87</td>
</tr>
<tr>
<td>16</td>
<td>Shri. Kankipati Adinarayana, Allavarm, EG Dist. AP</td>
<td>20.00</td>
</tr>
<tr>
<td>17</td>
<td>Shri. Appana Venkata Raju &amp; Appana Sudhakar Rao, Ambajipeta, E.G. District, AP</td>
<td>31.00</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Name of the Unit &amp; Address</td>
<td>Total Project Cost (in Lakhs)</td>
</tr>
<tr>
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<td>-----------------------------</td>
</tr>
<tr>
<td>18</td>
<td>Shri. Pedamallu Bhramanandham, E.G. District, AP</td>
<td>36.00</td>
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<tr>
<td>19</td>
<td>Smt. Naga Satya Sai, E.G., AP</td>
<td>19.50</td>
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<td>20</td>
<td>Shri. Pedamallu Venkatarama , E.G.,A.P</td>
<td>12.00</td>
</tr>
<tr>
<td>21</td>
<td>Shri . Bhavaraju Manorama , E.G.,A.P</td>
<td>25.30</td>
</tr>
<tr>
<td>22</td>
<td>Shri. Bonam Suryanarayana Moorthi, E.G., A.P</td>
<td>37.70</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>1969.25</strong></td>
</tr>
</tbody>
</table>

- 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

<table>
<thead>
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<tr>
<td>1828.46</td>
<td>44.02</td>
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<td></td>
<td>2.41%</td>
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</table>

Coconut processed for value added products

Potential yet to be utilized for processing
• 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