

DEEJAY FARMS - INDIA COCONUT BREEDING AND THE BENEFITS OF HYBRID COCONUT FARMS

SLIDE NO. 1 TO 35 ARE THE CONFIDENTIAL INFORMATION OF DEEJAY FARMS, BANGALORE.



DEEJAY GROUP

- Setup in 1969.
- Engaged in Agri Livestock activities and related genetic research in India.
- Focus on Hybrid Coconut Seedling Production.
- Winner of Government Agri Livestock Rural productivity award.

DEEJAY COCONUT BREEDING STATION



 Started in 1983 - design & technical plan by UN Coconut Breeding Expert Prof. A. Davis.

 Projects located at Madurai, Ambur in Tamilnadu, Bailur in Karnataka and Salaulim in Goa. Starting shortly in Andhra Pradesh.

200 ha with over 23,000 mother palms.

Sold over Two million hybrid coconut seedlings.

DEEJAY COCONUT BREEDING STATIONS IN INDIA



Bay of Benga

Andhra Pradesh Mountains

western DEEJAY SALAULIM GOA Karnataka

Kerala

DEEJAY BAILUR UNIT DEEJAY ANDHRAPRADESH PROJECT DEEJAY AMBUR DEEJAY GOAT BREEDING STATION

Tamil Nadu

Palk Strait

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Imagery Date: 4/10/2013 0293220.74" N 77°50'22.57" E elev 586 m eye alt 1882.44 km 🔘



Mon 23-Feb-2009





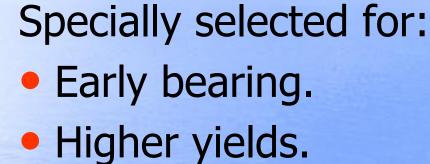
Deciap

Date of planting 23/10/2007

THIRTY MONTHS OLD DEEJAY DWARF

Deciap

DEEJAY PARENT LINE CHARACTERISTICS



- Larger nuts.
- More tender coconut water.



REJUVENATION PROGRAM OF DEEJAY DWARF PARENT



- Mother palms are replanted every twenty years constantly improving the performance in-house and in the field.
- Computerized records of over 23,000 palms are maintained, from the date of planting.
- C A D E S in place (Computerized Automatic Data Entry System).
- New mother palms are produced through pedigreed pollination with maximum selection pressure.



THE NURSERY







DESTRUCTION OF REJECTED SEEDLINGS



DEEJAY HYBRID TREES PERFORMANCE AT CUSTOMERS' FARMS



Mr. MAHENDRAN, UDUMALPET PLANTAGE – 54 MONTHS FIRST FLOWERING – 24 MONTHS

r: RAJU FARM, UDUMALPETAI, A MONTHS OLD IN BLACK COTFON

MI KUPPUSAMY, POLLACHI EIGHTEEN MONTHS OLD TREE STARFED FLOWEING Deciap

UDAXAKUMAR, UDUMALPET FOUR YEARS OLD TREE Deciap

KENYA COCONUT DEVELOPMENT AUTHORITY OFFICIALS VISIT TO A DEEJAY CUSTOMER'S GARDEN IN FEBRUARY 2012

Degias





OFFICIALS OF "M.S. SWAMINATHAN FOUNDATION VISITING DEEJAY CUSTOMER GARDEN Deciap

Grov

DEEJAY COMMERCIAL FIELD PERFORMANCE IN INDIA COMPARATIVE CHART



- High yields of 250 plus nuts p.a. compared to 80 nuts.
- Early flowering in 24 mths compared to over 72 mths.
- Copra of 200 grams per nut compared to 140 grms.
- Higher Oil content of 68% compared to 63%.
- 500 ml of sweeter coconut water compared to 200 ml.
- 43750 Nuts per ha. compared to 14000.
- 8750 kgs of copra per ha. compared to 1960 kgs.
- 5950 kgs of oil per ha. compared to 1235 kgs.

* Based on several farmers' field reports

COST & REVENUE COMPARISON Per ha



	<u>dj hybrids</u>	REGULAR TALL
	US \$	US \$
Year of first yielding	3 rd Year	7 th Year
Expenses up to first yield	4,869	6,278
Income by 5 th year of planting	13,125	NIL
Income by 10 th year of planting	48,407	4,967
Net Profit / (Loss) by the 10 th year	34,768	(3,974)
Net profit per year after stabilization	5,804	918
THE ABOVE RESULTS ARE BASED ON INDIAN CONDITIONS		

\$ 1190)

1/3 (rees & 230 rius & \$ 0.10 = \$ /000 - exp



THE POTENTIAL OF DEEJAY HYBRID COCONUT FARMS



POSSIBLE IMPACT WITH DEEJAY HYBRIDS

 If 200,000 ha are effectively planted with Deejay Hybrid Seedlings, coconut production would rise to 8.75 billion nuts per annum.

(200,000 ha X 175 trees X 250 nuts per tree per year)

• 200,000 ha = 40 km X 50 km land.

 This would make any country climb to fourth position or above in the World, based on their present production.

SMALL FARMER DEVELOPMENT PROGRAM



- At 2 ha per family, 100,000 families will get benefited with 200,000 ha hybrid coconut farm.
- 400,000 direct jobs will be created, with millions of indirect jobs.
- 100,000 families will move from poverty to middle income group.
- Unemployment and under-employment will be greatly reduced.



GROUP FARMING BENEFITS

- Small families are grouped into clusters to create Farmers' Producing Societies.
- Farmers' Producing Societies will reduce costs and improve profitability.
- Farmers' Producing Societies will supply the centralised value addition units.
- Year on year revenue of US\$ 1.4 billion accrue in the hands of farmers from 200,000 ha.
- Each family would generate net income of US\$ 967 per month from 2 ha.

(\$ 5804 X 2 ha / 12 months)

VALUE ADDITION POSSIBILITIES



- Desiccated coconut.
- Coconut Butter, Coconut Cream, Coconut flour.
- Coconut Milk, Milk powder, Coconut Yogurt.
- Virgin Coconut Oil.
- Coconut vinegar.
- Coconut Coir, Coconut pith.
- Coconut wood.
- Coconut Oil.
- Tender Coconut water.
- Coconut Sugar, Coconut Syrup.
- Coconut Ethanol.

Deelap Group

COCONUT OIL

 200,000 ha of Deejay hybrid coconut farm would supply 1.75 million MT of copra.

(200,000 ha X 175 trees X 250 nuts per year X 200 grms copra)

This gets converted into 1.19 million MT of coconut oil.

(1.75 million MT X 68% Oil)

• This is equivalent to US\$ 1.13 billion in the international market.

(1.19 million MT oil X \$ 950 per MT)



TENDER COCONUT WATER

 200,000 ha of Deejay hybrid coconut farm would supply 8.75 billion Tender coconuts.

(200,000 ha X 175 trees X 250 nuts per tree)

 This gets converted into 4.37 billion ltrs of Tender coconut water.

(8.75 billion nuts X 500 ml water)

• This is equivalent to US\$ 6.55 billion in the international market.

(4.37 billion ltrs of water X \$ 1.50)



COCONUT SUGAR

 200,000 ha of Deejay hybrid coconut farm would accommodate 35 million coconut trees.

(200,000 ha X 175 trees per ha)

- At an average of 8 ltrs per day, for 300 days would provide 84 billion ltrs of coconut sap.
- This could get converted into 14 million MT of palm sugar.

(At one kilo of sugar from 6 ltrs of sap)

• This is equivalent to US\$ 14 billion in the international market.

(At \$ 1000 per Ton of Sugar)



COCONUL BIO-ELHANOL

- 200,000 ha of Deejay hybrid coconut farm would accommodate 35 million coconut trees.
- At an average of 8 ltrs per day, 300 days a year would provide 84 billion ltrs of coconut sap.
- This could get converted into 8.4 Billion Itrs of coconut Bio-Ethanol.

(At 10% ethanol per ltr of sap)

• This is equivalent to US\$ 6.09 billion in the international market.

(At \$ 0.72 per ltr of ethanol)



PRIME MOVER ADVANTAGE

- Given enough time, the big Industrialists / Multinationals will take control of food production.
- Organising the small coconut farmer earliest is essential.
- This appears the only way to assist the small farmer to move from poverty to middle class status



THANK YOU

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