

## ***Proceedings of the 36<sup>th</sup> meeting of Project Approval Committee of Technology Mission on Coconut held at Kochi on 12<sup>th</sup> August 2011***

The 36<sup>th</sup> meeting of the Project Approval Committee (PAC) on Technology Mission on Coconut (TMOC) was held at the Board Room of Coconut Development Board, Kochi on 12<sup>th</sup> August 2011 at 11.00 AM under the Chairmanship of Shri. T.K. Jose IAS, Chairman, Coconut Development Board. The list of members attended the meeting is annexed. At the outset Chairman welcomed all the members and informed that there is some delay in holding the PAC meeting since February 2011. He assured the members that henceforth the PAC meeting will be held once in every 3 months. He also presented the details of the projects sanctioned so far under TMOC and said that the status of the projects is being updated and uploaded in the Website of Coconut Development Board. He reiterated the objective of TMOC and informed that we should look for non-traditional and innovative projects and products rather than traditional oil making.

Thereafter the following Agenda items were discussed in detail:

### ***AGENDA No. 1: Confirmation of the Proceedings of 35<sup>th</sup> Project Approval Committee Meeting held on 24<sup>th</sup> February 2011***

The Committee confirmed the proceedings of the 35<sup>th</sup> Project Approval Committee Meeting

### ***AGENDA No. 2: Action taken report of the 35<sup>th</sup> PAC Meeting***

The committee perused the action taken on the decision of the 35<sup>th</sup> meeting of the Project Approval Committee on the issue of continuation of Brand Promotion market promotional programme of TMOC, NABARD & Government of Karnataka have responded to the circular and have suggested as follows:

#### **Comments of NABARD**

- As long as the products are catering to a very localized market, multiple brands may not have much problem as each of them would have carved out a section of the market. However, CDB may explore possibilities of developing common brand for a generic product atleast from a state. Alternatively, marketing/ publicity may be done by a single agency where to start with atleast 50% of the material produced by the individual units are to be given to them which can be subsequently raised depending on the success.

- Products coming under health care and cosmetic segments needs to be popularized where multiple branding can be promoted. Possibility of uniformity in content and packing may be explored.
- Organised way of publicity involving media, companies and Coconut Development Board on a professional platform.
- Publicity should also give mileage to the efforts of Coconut Development Board.
- Possibilities of expanding markets in railways and airlines. For eg: Packed tender coconut water served in trains and flights.
- The cap for assistance for private entrepreneurs to be proportionate to that of Government Sector to keep them on an equal footing.

### **Comments of Director of Horticulture, Govt. of Karnataka**

The present guidelines provide assistance to Government agencies, co-operatives and private entrepreneurs for brand publicity, marketing and storage infrastructure, publicity material, display, etc. But more emphasis needs to be given for increasing the processing activity for making the coconut products. More assistance needs to be provided for producing the coconut product rather than its brand development.

Processing activity requires more investment from the entrepreneur or from the beneficiary as it involves various items of expenditure like land, building, machinery, men and raw material. Hence, the percentage and quantum of subsidy for raising the production is to be increased from the present level of 25% to 40% for this purpose.

The different coconut products that are now being made are quite popular and hence more subsidy is required for developing new products of consumer acceptance. Such ventures may be assisted by Coconut Development Board.

Market development and brand development for the same coconut product will be a proprietary commercial activity. For this purpose the manufacturing agency needs to make more investment as it will have a direct bearing on profit earning of the agency. Hence, it is suggested that such activities may be taken up by the entrepreneur himself.

However, market development and brand development can be included as one of the components of integrated projects involving processing and increasing the production of processed products. The overall subsidy for this component may be limited to 5% of project cost subject to a maximum of Rs.5.00 lakhs. The subsidy for market development and brand development can be back ended so as to ensure proper utilization of this component. Activities like buyer-seller meet, exchange of delegation, participation of exhibitions/ fairs/ melas, etc., are

to be encouraged free of cost in order to give boost to the market promotion for the processed coconut products.

*After discussion it was decided that Market Promotional assistance for brand promotion may be provided to the manufacturers of value added products other than copra & coconut oil. However, promotional assistance may be extended for quality improvement, packaging improvement, certification fees for ISO, HACCP, Agmark etc. The assistance may be extended to the units according to the need of the industry and without any cap on a particular item. However the maximum eligible assistance shall be limited to Rs.10 lakhs or 50% of the expenditure which ever is less on reimbursement basis.*

*The activities such as, brand publicity through electronic and print Media, Parlours, Kiosks, Ware house, etc., Undertaking activities like buyer-seller meet, exchange of delegations, Participation of Exhibitions/Fairs/ Melas etc., Developing/ hiring of display facilities in major food chain market, Development of Website, Display of coconut products at Air Ports/Railway Stations, Expenditure for obtaining Agmark, ISO, HACCP etc., certification, improvement in packaging, quality logo etc. can be assisted under the subcomponent.*

### **AGENDA No. 3: Approval of new project proposals:**

#### **1. Project proposal for Performance evaluation of elite seedlings in farmer's fields of Alappuzha and Kollam Districts - ORARS, Kerala Agricultural University, Kayamkulam, Alappuzha at total cost of Rs.12.10 lakhs**

The project was submitted by Dr. M.R.Bindu, Associate professor, ORARS, Kayamkulam. The objective of the project is to evaluate the performance of the mother palms selected during 2004-05 for the presence of root wilt disease by ELISA test, a comparative study of the mother palms of Kuttiyadi origin distributed by the Department of Agriculture in the region (6 PANCHAYATS), compare the morphological characters, incidence of pests and diseases in selected palms, conducting ELISA test in selected palms and identification of root (wilt) free palms. PAC approved the project. The outcome of the project shall be testing of a total of 200 palms for presence of Phytoplasma by ELISA, so as to mark them as mother palms for seed procurement.

**2. Evaluating the performance of released coconut hybrids in Farmer fields - Coconut Research station, Veppankulam, Thanjavur at total cost of Rs.15.10 lakhs**

The project was submitted by Dr.Natarajan.C., Professor and Head, Coconut Research station, Veppankulam, Thanjavur District. The objective of the project is to conduct survey to collect the passport data regarding the distribution of hybrid seedling to farmers, to identify the farmers those who have planted released hybrids in large area in different locations and to assess the yield potential of the released hybrids of major coconut growing districts in Tamil Nadu.

The PAC approved the project at a total cost of Rs.15.10 lakhs. It was suggested that apart from the parameters already suggested quality of tender coconut water may be quantified & tolerance to pest and disease may also be included in the morphological/ field parameters.

**3. Mixed cropping of Noni (*Morinda citrifolia*) in coconut gardens under coastal agro-ecosystems - Central Plantation Crops research institute (ICAR), Kasargod at total cost of Rs.6.52 lakhs**

The project was submitted by Dr. H P Maheswarappa, Senior Scientist (Agronomy), Central Plantation Crops Research Institute (ICAR), Kasargod. The objective of the project is to study the performance of Noni (*Morinda citrifolia*), as mixed crop in single hedge systems under coconut garden and to study the impact of mixed cropping of Noni with coconut on the productivity of coconut palms and soil fertility status.

Project Approval Committee approved the revised project for conducting research cum field demonstration at a total cost of Rs.6.52 lakhs over a period of 3 years.

**4. Development of effective and safe chemical module against post harvest diseases of coconut and demonstration of developed module in farmer's conditions. - Horticultural Research Station, Andhra Pradesh Horticultural University, Venkatramannagudem, West Godavari, AP at total cost of Rs.20.68 lakhs.**

The project was submitted by Dr. A. Snehalatha Rani, Scientist (Plant Pathology), Horticulture Research Station, APHU, Ambajipeta, Andhra Pradesh. The objective of the project is to identify effective chemicals against post harvest diseases under varied storage structures, to develop cost effective module to manage post harvest diseases in coconut, to study the bio safety measures by using mammals (Rabbits / Rats), to calculate cost benefit ratio and economic analysis and to demonstrate the developed chemical management package against post harvest disease in farmers gardens.

Project Approval Committee approved the project at a total cost of Rs.20.68 lakhs with a duration of 3 years.

**5. Development of Technology for Production of Health Foods from Tender & Mature Coconut - CFTRI, Mysore at total cost of Rs.20.90 lakhs.**

The project was submitted by Dr. A. G. Gopala Krishna, Scientist-G, Department of Lipid Science & Traditional Foods, Central Food Technological Research Institute, Mysore, Karnataka. The objective of the project is to provide a ready to reconstitute Nutraceutical retained dehydrated product from tender and mature coconut water, to provide a ready to use Nutraceutical retained food supplement (instant powder) from tender and mature coconut meat and to utilize above products in preparation of two ready to eat/drink health foods.

Project Approval Committee approved the project at a total cost of Rs.20.90 lakhs.

**6. Investigations and development of technology for desiccated coconut industry effluent water treatment -Dept. of Chemical Engineering, IISc, Bangalore at total cost of Rs.11.572 lakhs.**

The project was presented by the PI Dr. J R. Mudakavi, Department of Chemical Engineering, IISc, Bangalore. The objective of the project is to develop reliable treatment and monitoring methods for coconut processing industry effluent water, to characterize the effluent water of the desiccated coconut industry, to develop an environment friendly effluent treatment process for desiccated coconut industry, to explore alternate byproducts from coconut water and to evolve good sanitary practices for the industry.

Project Approval Committee approved the project at a total cost of Rs.11.572 lakhs. The PI has also requested the Board to organize a workshop to discuss the various issues related to effluents in desiccated coconut industry.

**The Project Approval Committee decided to defer the projects listed under (Item no.7 to 13).**

**14. Establishment of Desiccated Coconut manufacturing unit at Ayyappaickenpalayam, Tirupur Dist, TN - M/s. Kovai Agro Foods, Meenakshipuram, Pollachi at total cost of Rs.240.00 lakhs**

The objective of the project is establishment of desiccated coconut manufacturing unit with a capacity to processing of 56,000 coconuts per day. The project was approved with an eligible cost of Rs.179.68 lakhs and eligible subsidy of Rs.44.92 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	73.33	70.00	17.50
Plant & Equipments	104.27	104.27	26.068
Furniture & office equipments	3.51	3.51	0.8775
Preliminary & Pre op. expenses	5.00	1.90	0.475
Working Capital margin	50.00	-	-
<b>TOTAL</b>	<b>236.11</b>	<b>179.68</b>	<b>44.920</b>

The Project Approval Committee approved the project subject to the fulfillment of the conditions viz, the Effluent Treatment Plant (coconut water and washed water) should be incorporated and blanching / steaming equipments to be included in the machineries list.

**15. Establishment of Desiccated Coconut Powder manufacturing unit -M/s. KKP Industries, Nallipalayam, Padiyur Post, Kangayam Taluk, Tirupur at total cost of Rs.162.188 lakhs**

The objective of the project is to setting up of a Desiccated coconut powder manufacturing unit with installed capacity to process 4 MT (40,000 coconut) per day. The project was approved with an eligible cost of Rs.107.969 lakhs and eligible subsidy of Rs.26.992 lakhs as follows.

Components	Project Cost	Eligible Cost	Eligible Subsidy
	(Rs. in lakhs.)		
Land & land development	27.225	-	-
Building & Civil works	38.140	36.247	9.062
Plant & Equipments	57.809	57.809	14.452
Furniture and Fittings	1.250	1.250	0.313
Electrical Installations	11.240	11.240	2.81
Preoperative expenses	6.650	1.423	0.355
Working Capital margin	19.874	-	-
<b>TOTAL</b>	<b>162.188</b>	<b>107.969</b>	<b>26.992</b>

The Project Approval Committee approved the project subject to the fulfillment of the conditions viz, the Effluent Treatment Plant (coconut water and washed water) should be incorporated and blanching / steaming equipments to be included in the machineries list.

**16. Establishment of Virgin coconut oil manufacturing unit -M/s. Sathyam Grama Sangham, Azheekal, Alapuzha at total cost of Rs.40.85 lakhs**

The objective of the project is establishment of virgin coconut oil manufacturing unit with an installed capacity to produce 5,000 nuts per day. The project was approved with an eligible cost of Rs.31.73 lakhs and eligible subsidy of Rs.7.933 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	5.75	-	-
Building & Civil works	10.40	10.40	2.60
Plant & Equipments	19.70	19.70	4.925
Furniture & fittings	0.50	0.50	0.125
Electrical Installations	0.75	0.75	0.188
Pre op. expenses	0.90	0.38	0.095
Working Capital margin	2.85	-	-
<b>TOTAL</b>	<b>40.85</b>	<b>31.73</b>	<b>7.933</b>

The committee approved the proposal in principle. However the cash flow analysis has to be reworked taking a realistic estimate of the costs and capacity utilization. The capacity of the machinery especially the tubular bowl centrifuge has to be ascertained.

1. For the production of virgin coconut oil micro filter is not required. This may be clarified from the machinery supplier.
2. It would be better if the promoter attends a demonstration of the process by visiting any of the units established by the machinery supplier.
3. Virgin Coconut Oil should confirm to the APCC specifications.

The costing may be reworked accordingly and resubmitted.

**17. Coconut Shell charcoal manufacturing unit -RB carbon, Tirupur, Tamilnadu at total cost of Rs.172.23 lakhs**

The objective of the project is establishment of shell charcoal manufacturing unit with a capacity to process 90 MT coconut shell/day (30 MT shell charcoal per day). The project was approved with an eligible cost of Rs.118.33 lakhs and eligible subsidy of Rs.29.581 lakhs as follows.

Items	Total Project Cost (₹ in lakhs)	Eligible Project Cost (₹ in lakhs)	Maximum Eligible Subsidy (₹ in lakhs)
Land & Land Development	11.00	-	-
Building & Civil Works (Brick Klin 9 Nos, Chimney & Labour Shed Etc.)	81.23	60.23	15.057
Plant & Equipments	51.55	51.55	12.887
Furniture and Fittings	1.00	1.00	0.250
Electrical Installations	4.05	4.05	1.012
Electronic Equipments	0.52	-	-
Preoperative Expenses	1.75	1.50	0.375
Working Capital Margin	21.13	-	-
<b>Total</b>	<b>172.23</b>	<b>118.33</b>	<b>29.581</b>

**18. Activated carbon manufacturing unit - EBE Liza Enterprises, Tamilnadu at total cost of Rs.103.10 lakhs**

The objective of the project is setting up of new activated carbon manufacturing with an installed capacity to process 1.50 MT activated carbon per day. The project was approved with an eligible cost of Rs.82.322 lakhs and eligible subsidy of Rs.20.58 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land & Dev	10.38	-	-
Plant & Equipments	40.25	40.25	10.062
Building & civil works	35.50	35.50	8.875
Furniture and Fittings	1.00	1.00	0.250
Electrical installation	4.73	4.73	1.183
Electronic Equipments	0.75	-	-
Preoperative Expenses	2.00	0.842	0.210
Working Capital Margin	8.49	-	-
<b>Total</b>	<b>103.10</b>	<b>82.322</b>	<b>20.580</b>



**19. Establishment of Coconut Shell Charcoal production unit at Pollachi - M/s. Sharni Carbon, Kariyanchettipalayam, Pollachi at total cost of Rs.49.88 lakhs**

The objective of the project is production of coconut shell charcoal with an installed capacity to process 162 tons/ annum and 13 tones in the 1<sup>st</sup> year rising upto 146 tons from 6<sup>th</sup> year onwards. The project was approved with an eligible cost of Rs.42.65 lakhs and eligible subsidy of Rs.10.224 lakhs as follows.

	Total cost (₹ in lakhs)	Eligible Project Cost (₹ in lakhs)	Maximum Eligible Subsidy (₹. in lakhs)
Land & Dev.	Own	-	-
Plant & Equipments	35.15	29.65	7.412
Building & Work shed	9.25	9.25	2.312
Electrical installation	2.00	2.00	0.500
Pre-op. Expenses	1.75	1.75	-
Working capital	1.73	-	-
<b>Total</b>	<b>49.88</b>	<b>42.65</b>	<b>10.224</b>

**20. Establishment of Coconut shell powder unit at Namakkal -M/s. Asian Industries, Bye-Pass Road Padamudipalayam, Valur PO, Namakkal at total cost of Rs.100.00 lakhs**

The objective of the project is establishment of coconut shell powder unit with installed capacity to process 10 tons of coconut shell/day. The project was approved with an eligible cost of Rs.93.435 lakhs and eligible subsidy of Rs.23.359 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land (1.015 acres)	4.50	-	-
Building & Civil works	15.00	15.00	3.75
Plant & Equipments	60.00	60.00	15.00
Erection and installation charges & laying foundation for machineries, freight, transport	17.50	17.50	4.375
Preliminary & Pre op. expenses	1.00	0.935	0.234
Working Capital margin	2.00	-	-
<b>TOTAL</b>	<b>100.00</b>	<b>93.435</b>	<b>23.359</b>

**21. Expansion and modernization of the existing coconut shell ice cream cup unit - Nexus Frozen Fruits Containers & Foods Pvt. Ltd, Manickamangalam PO, Kalady, EKM at total cost of Rs.54.02 lakhs**

The objective of the project is expansion and modernization of the existing coconut shell ice cream cup unit with installed capacity to process 20,000 coconut shell ice-cream cups and 1000 Ltrs coconut based frozen dessert per day. Based on the observations of ISC and suggestions of the officers who have visited the unit, the project for expansion and modernization of the existing fruits containers and food unit (coconut shell ice cream cups) was separated and presented by the promoter in the PAC. The PAC appreciated the novelty of the product which have high export value. The project was approved with an eligible cost of Rs.52.55 lakhs and eligible subsidy of Rs.13.13 lakhs as follows.

<b>Components</b>	<b>Amount (in lakhs.)</b>	<b>Eligible Cost (in lakhs)</b>	<b>Eligible Subsidy (in lakhs)</b>
Land	Own land	-	-
Building	17.40	17.40	4.35
Plant & Equipments	33.40	33.40	8.35
Furniture and office equipments	1.22	1.22	0.30
Preliminary & pre-op. expenses	1.00	0.53	0.13
Working Capital Margin	1.00	-	-
<b>Total</b>	<b>54.02</b>	<b>52.55</b>	<b>13.13</b>

The capacity of the unit is proposed to be enhanced from 10000 to 20000 cups per day.

Based on the value and turnover of coconut ice cream (coconut dessert) the proposal for financial assistance for the ice cream unit will be considered separately in due course. PAC also suggested that the unit may explore the possibility of manufacture & packing of coconut cream & milk.

**22. Setting up of Spray Dried Coconut Milk Powder manufacturing Plant at Peringandoor, Athani, Thrissur - M/s. Surya Shobha, Shobha Engineering Co. Complex, Peringandoor, Athani, Thrissur at total cost of Rs.207.00 lakhs**

The objective of the project is manufacturing of Coconut Milk Powder and sale in local and foreign market with Installed capacity of 20,000 nuts/ day. The project was approved with an eligible cost of Rs.193.9 lakhs and eligible subsidy of Rs.48.475 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>( Rs. in lakhs)</b>			
Land	0.40	-	-
Building & Civil works	45.00	45.00	11.25
Plant & Machinery	141.00	141.00	35.25
Technical know-how	5.60	5.15	1.288
Furniture & office equipments	2.00	0.75	0.187
Preliminary & Pre op. expenses	6.00	2.00	0.50
Working Capital margin	7.00	-	-
<b>TOTAL</b>	<b>207.00</b>	<b>193.9</b>	<b>48.475</b>

**23. Setting up of a integrated coconut processing unit for the production of DC & VCO at Hutbay, Little Andaman, A & N Islands -M/s. Riflex Industries Pvt. Ltd, Port Blair, A&N Islands at total cost of Rs.107.32 lakhs**

The objective of the project is setting up of a integrated coconut processing unit for the production of Virgin Coconut oil & Desiccated coconut with installed capacity of 10,000 nuts/day. The project was approved with an eligible cost of Rs.99.32 lakhs and eligible subsidy of Rs.24.83 lakhs as follows.

Items	Total Project Cost (₹ in lakhs)	Eligible Project Cost (₹ in lakhs)	Maximum Eligible Subsidy (₹ in lakhs)
Land & Land Dev.	Leased	-	-
Plant & Equipments Including electrical install.	63.32	63.32	15.83
Building & civil works	25.00	25.00	6.25
Furniture & office equpts.	3.15	3.15	0.787
Tech. transfer fee	0.55	0.55	0.138
Other expenses	3.30	3.30	0.825
Working capital Margin	8.00	-	-
Freight charges to Hutbay	4.00	4.00	1.00
<b>Total</b>	<b>107.32</b>	<b>99.32</b>	<b>24.83</b>

**24. Setting up of integrated coconut processing unit for the production of DC& VCO at Great Nicobar, A & N Islands- M/s. Riflex Industries Pvt. Ltd, Port Blair, A&N Islands at total cost of Rs.104.53 lakhs**

The objective of the project is setting up of integrated coconut processing for the production of Virgin Coconut oil & Desiccated coconut with installed capacity of 10,000 nuts/day. The project was approved with an eligible cost of Rs.94.19 lakhs and eligible subsidy of Rs.23.535 lakhs as follows.

Items	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land & Land Dev.	Leased		
Plant & Equipments (including electrical install.)	63.78	63.78	15.94
Building & civil works	22.00	22.00	5.50
Furniture & office equpts.	2.70	2.70	0.67
Pre-op. expenses	3.30	0.96	0.24
Working capital Margin	8.00	-	-
Freight charges to Campbellbay	4.75	4.75	1.18
<b>Total</b>	<b>104.53</b>	<b>94.19</b>	<b>23.535</b>

**25. Setting up of a integrated coconut processing unit for the production of DC& VCO at Bakultalla (Rangat), A & N Islands M/s. Reflex Industries Pvt. Ltd, Port Blair, A&N Islands at total cost of Rs.103.43 lakhs**

The objective of the project is setting up of a integrated coconut processing for the production of Virgin Coconut oil & Desiccated coconut with installed capacity of 10,000 nuts/day. The project was approved with an eligible cost of Rs.93.08 lakhs and eligible subsidy of Rs.23.26 lakhs as follows.

Items	Total Project Cost (₹ in lakhs)	Eligible Project Cost (₹ in lakhs)	Maximum Eligible Subsidy (₹ in lakhs)
Land & Land Dev.	Leased		
Plant & Equipments (including electrical install.)	63.43	63.43	15.85
Building & civil works	22.00	22.00	5.50
Furniture & office equpts.	2.70	2.70	0.67
Pre-op. expenses	3.30	0.95	0.23
Working capital Margin	8.00	-	-
Freight charges to Campbellbay	4.00	4.00	1.00
<b>Total</b>	<b>103.43</b>	<b>93.08</b>	<b>23.26</b>

The PAC approved the projects in principle and advised the promoters to decide on setting up of units in any of the two locations. The eligible subsidy in any case be limited to a maximum of Rs.48.365 lakhs as shown above.

**26. Establishment of unit for packed tender coconut water at Otthakkalmandapam, Coimbatore - Pure Tropic, Mangalam Road, Karuvampalayam, Tirupur, Tamil Nadu at total cost of Rs.102.00 lakhs**

The objective of the project is establishment of unit and export of packed coconut water with installed capacity of 3000 packs per day (5,95,000 packs/ year-200 ml). The project was approved with an eligible cost of Rs.92.00 lakhs and eligible subsidy of Rs.23.00 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Land	Own	-	-
Plant & Machinery	92.00	92.00	23.00
Margin for Working capital	10.00	-	-
<b>TOTAL</b>	<b>102.00</b>	<b>92.00</b>	<b>23.00</b>

The committee also suggested that the unit should stabilize and enhance the capacity with their own permanent infrastructure facilities including machineries for tetra packing at the earliest.

**27. Setting up of a Virgin Coconut Oil Unit - M/s. Farmcompact Coconut Products Pvt Ltd, KPM Colony, Subbaiahpillai St., Pattukkottai at total cost of Rs.125.75 lakhs**

The objective of the project is establishment of Virgin Coconut Oil unit with installed capacity to process 7500 nuts per shift (2 shifts). The project was approved with an eligible cost of Rs.106.927 lakhs and eligible subsidy of Rs.26.732 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(Rs. in lakhs)			
Land & Land development	13.00	4.00	1.00
Building	32.00	32.00	8.00
Plant & Equipments	67.50	67.50	16.875
Technical know-how	0.50	0.50	0.125
Furniture & office equipments	1.75	1.75	0.438
Preliminary & Pre op. expenses	3.00	1.177	0.294
Working Capital margin	8.00	-	-
<b>TOTAL</b>	<b>125.75</b>	<b>106.927</b>	<b>26.732</b>

**28. Construction of Godown for the production of Ball Copra at Mokeri - Shri. Suneshan V. K., Sreevalsom, Thalassery, Kannur at total cost of Rs.6.267 lakhs**

The objective of the project is production of high quality Ball copra with installed Capacity of 15000 nos per batch. The project was approved with an eligible cost of Rs.3.10 lakhs and eligible subsidy of Rs.0.775 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	0.800	-	-
Building	3.100	3.100	0.775
Plant & machinery	0.010	-	-
Working capital	2.357	-	-
<b>Total</b>	<b>6.267</b>	<b>3.100</b>	<b>0.775</b>

**29. Setting up of a coconut processing unit at Vettilappara, Urungattiri Panchayat, Malappuram - Mr. T.V. Thomas, Thekkekkuttu House, Vettilappara PO, Malappuram at total cost of Rs.3.90 lakhs**

The objective of the project is production of milling and edible copra with installed capacity of 3000 coconuts/day. The project was approved with an eligible cost of Rs.2.48 lakhs and eligible subsidy of Rs.0.62 lakhs subject to the condition that the land document, building permit, building plan and estimate etc. are submitted.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	0.50	-	-
Building	2.00	1.44	0.36
Plant & Equipments	1.00	1.00	0.25
Preliminary & Pre op. expenses	0.10	0.04	0.01
Working Capital margin	0.30	-	-
<b>TOTAL</b>	<b>3.90</b>	<b>2.48</b>	<b>0.62</b>

**30. Establishment of ball copra making unit - Mr. P.J Thomas, Padinjarethottiyil, Kooranchundu, Kozhikode at total cost of Rs.5.00 lakhs**

The objective of the project is production of high quality ball copra with installed capacity of 40000 nos. coconuts per year. The project was approved with an eligible cost of Rs.2.40 lakhs and eligible subsidy of Rs.0.725 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	0.50	-	-
Building 39.99 sq.m.	3.00	2.40	0.60
Tools & Equipments	0.50	0.50	0.125
Working capital margin	1.00	-	-
<b>TOTAL</b>	<b>5.00</b>	<b>2.90</b>	<b>0.725</b>

**31. Construction of Godown for Ball Copra Making and Storage of Copra - Shri Appana Naga Venkateswara Rao, S/o. Seetha Raman, AVR & CO. – Copra Merchant, Ambajipetta, East Godavari A.P. at total cost of Rs.23.00 lakhs**

The objective of the project is production of ball copra and storage with installed capacity of 65,000 nuts / year. The project was approved with an eligible cost of Rs.13.00 lakhs and eligible subsidy of Rs.3.25 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>Civil works for storage shed 2166.5 sq ft</b>	(₹ in lakhs)		
Basement	6.90	13.00	3.25
Superstructure	5.75		
Roof Slab	5.75		
Finishing	4.60		
<b>Total</b>	<b>23.00</b>	<b>13.00</b>	<b>3.25</b>

**32. Ball Copra making unit at Koorachundu - Shri. Hameed VS, Vellikulath House, Koorachundu, Kozhikode at total cost of Rs.3.75 lakhs**

The objective of the project is production of high quality ball copra with installed capacity of 15000 nos. coconuts per year. The project was approved with an eligible cost of Rs.1.05 lakhs and eligible subsidy of Rs.0.262 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	1.75	-	-
Building & Civil works	1.25	0.90	0.225
Cost of coconuts	0.60	-	-
Tools	0.15	0.15	0.0375
<b>TOTAL</b>	<b>3.75</b>	<b>1.05</b>	<b>0.2625</b>

**33. Generation of xylooligosaccharides from green coconut husk for augmenting gut health and function- National Institute of Animal Nutrition, Bangalore at total cost of Rs.40.06 lakhs.**

The project was submitted by Dr. Ashis Kumar Samanta, Senior Scientist, National Institute of Animal Nutrition, Bangalore. The objective of the project is to generate xylooligosaccharides from green coconut husks, to purify and characterize the xylooligosaccharides and to elucidate the prebiotic potentiality / therapeutic value of xylooligosaccharides.

Project Approval Committee approved the project at a total cost of Rs.40.06 lakhs with a duration of 3 years.



## Other Items

- 1. Proposal for fund requirement for the period April 2011- March 2012 for Quality Testing Laboratory at Vazhakulam, Aluva and ratification of expenditure incurred during April 2011 – July 2011.**

The PAC approved the financial allocation of Rs.20.00 lakhs towards recurring expenditure for purchase of chemicals/media, maintenance and salary for contract staff etc. of the Quality Testing Laboratory. The PAC also ratified expenditure of Rs.1.55983 lakhs during April 2011 - July 2011 towards routine recurring expenditure.

- 2. Production of Disease free Elite planting material for Improving the productivity of coconut in Bay islands - Central Agricultural Research Institute (ICAR)– Revision of project cost**

The PAC ratified the additional amount of Rs.57,400/- sanctioned and released to CARI towards the revision of wages for Research Fellows and approved the project cost to be enhanced to Rs.20.01 lakhs

- 3. Scaling up the production of planting material from coconut root (wilt) disease resistant palms through plumule culture. – Dr.Anitha Karun, Principal Scientist (Horticulture Biotechnology) – Revision of project cost**

The PAC ratified the release of Rs.1,58,400/- towards the wages for the period from 1.4.10 to 31.3.11 for the 2 SRF'S and 1 JRF and approved the enhancement of total project cost to Rs.47.262 lakhs

- 4. Quick detection of root wilt diseases of coconut using molecular kit -Dr. R. Manimekalai, Scientist (Sr. Scale) Biotechnology, CPCRI, Kasaragod - Revision of project cost**

The PAC approved the payment of enhanced salary to 2 SRF's and the resultant enhancement of project cost to Rs.52,99,200/-.

- 5. Integrated management of bud rot disease of coconut in endemic areas - Central plantation Crops Research Institute, Kasargod - Revision of emoluments of SRF in the project and revision of project cost**

The PAC ratified the release of Rs.66,142/- towards arrear of wages to Research Fellows and approved the enhancement of total project cost to Rs.20.609 lakhs.

**6. Proposal for the Management of Black Headed Caterpillar (BHC) Menace on Coconut in Karnataka – Extension of project period.**

As per the request of the Joint Director of Horticulture who attended the PAC meeting the project period was extended up to March 2012 by the PAC for the completion of the inputs application including last round of release of parasites and submission of final report including the list of beneficiaries.

**7. Establishment of Biological Control Lab at Regional Office, Bangalore for the biological suppression of coconut leaf eating caterpillar in Karnataka - Coconut Development Board, Regional Office, Bangalore- Extension of project period**

The PAC ratified release of 1<sup>st</sup> and 2<sup>nd</sup> quarter funds of Rs.1,30,885/- towards the recurring expenses of Bio control Lab and approved the budget of Rs.7 lakhs for 2011-12 & 2012-13.

**8. Development of tractor mounted and self propelled coconut climber for coconut harvesting - B.S. Konkan Krishi Vidyapeeth, Dapoli– Revision of project cost.**

The PAC approved the payment of enhanced salary of the Research Associate for 11 months and revised project cost Rs.17,67,700/- Lakhs.

**9. Development of technology for preparation of particle boards & diversified products from tender coconut waste -Director, Central Coir Research Institute (CCRI), Kalavoor– Extension of project period.**

The PAC ratified extension of the project period for one year i.e. up to 31st March 2012 to take up further studies and scaling up technologies developed and to ascertain the technical and commercial feasibility without any additional financial commitments.

**10. Synthesis and characterization of value added products from coconut oil - Indian Institute of Science, Bangalore –Additional Grant.**

The PAC reviewed the progress of the project and noted that the synthesis of Ca, Na, Li soaps for grease and optimization of emulsifiers for metal cutting operations have been completed. However performance evaluations, field test and setting up of pilot plants for demonstration of technology have to be initiated. The PAC opined that provisions for procurement of new automated viscometer cannot be considered under TMOC projects. Facilities available at the institute have to be utilized. The PI was requested to specify the time frame for establishment of the pilot testing plant for the production of coconut oil based emulsifier for cutting oils and demonstrating the synthesis of grease. PAC deferred a decision on allocation of additional grant for the second phase of the project till the report of the PI is reviewed.

**11. Project proposal for implementation of the Market Promotion Programme of “KERASHREE”. Brand coconut products manufactured and promoted by M/s Kotachery Co-operative Marketing Society Ltd, No. L. 354, Kotachery, Kanhangad P.O., Kasaragod District, Kerala**

The PAC ratified the reimbursement of Rs.8.00 lakh and reallocation of the funds till 2012-13 to undertake market promotional activities as proposed.

**12. Inclusion of cost of land and land development under eligible Components for assistance.**

The PAC decided that the land procured within an approved industrial estate area of State Govt. / SEZ etc. for the establishment of processing units only need to be considered for providing eligible assistance under TMOC, even if the land is allocated on a long lease basis (not less than 12 years).

**Other Decisions**

- Chairman suggested that from the next PAC meeting onwards the proforma has to be revised incorporating the sales & marketing aspects also.
- Chairman desired that studies on value added innovative novel products should be taken up like Tender Coconut Soufle preparations, its packaging, increasing shelf life etc. by institutions like CFTRI.
- It was also suggested that development or import of technology for large scale processing of matured coconut water into Coconut Juice should also be taken up.
- In the MoU the following conditions should be specified:
  1. The unit shall display a visible permanent board in the premises of the unit stating that the project was established with the financial assistance from the Coconut Development Board under the scheme ‘Technology Mission on Coconut’.
  2. Monthly reporting of physical and financial progress till the loan is closed will be insisted.
  3. The unit should mention in their advertisement and packaging of their products regarding the financial assistance from the Coconut Development Board under the scheme ‘Technology Mission on Coconut’.

Dr. K. Muralidharan  
Director

36<sup>th</sup> Meeting of PAC of TMOOC held on 12<sup>th</sup> August 2011 at  
Kerabhavan, Kochi

**List of Participants**

S.No.	Name and address
<b>A</b>	<b>MEMBERS</b>
1	Shri. T.K. Jose IAS Chairman, Coconut Development Board
2	Dr. Devendra Kumar Dhodawat IAS Secretary Agriculture , Department of Agriculture, Government Secretariat, Thiruvananthapuram
3	Sri. K.B Dundi, Joint Director of Hort, (Plantation Crops & Plant Protection), State Horticulture Dept., Karnataka <u>Representative of</u> Secretary (Horticulture ) Government of Karnataka, Karnataka Government Secretariat, Multistoried building, Illrd Stage, IVth Floor, Dr. Ambedker Veedhi, Bangalore.
4	Dr. R. Chandramohan, Head Crop Protection Division, CPCRI, Kasargod <u>Representative of</u> Dr. George. V. Thomas, Director, CPCRI, Kasaragod
5	Shri. Joseph S Pynadath, General Manager, Technical Services, Investment Credit Department, 3 <sup>rd</sup> Floor, B Wing, NABARD, Plot No. C –24, G Block Badra –Kurla Complex, Post Box No.8121, Bombay <u>Representative of</u> Chief General Manager, Technical Services, Investment Credit Department, 3 <sup>rd</sup> Floor, B Wing, NABARD, Plot No. C –24, G Block Badra –Kurla Complex, Post Box No.8121, Bombay

6	<p>Shri. M.M. Jose, Senior Marketing Development Officer of Directorate of Marketing &amp; Inspection, Kochi</p> <p><u>Representative of</u></p> <p>Joint Secretary &amp; Agricultural Marketing Adviser to Govt. of India, Room No.237, Krishi Bhavan, New Delhi</p>
7	<p>Dr. KSMS Raghavarao, Head, Department of Food Engineering, Central Food Technological Research Institute (CFTRI), Mysore</p> <p><u>Representative of</u></p> <p>Director, Central Food Technological Research Institute, Mysore</p>
8	Mr.Karupuswami, AGM, IOB, Ernakulam
9	<p>Shri. K. Mohan Kumar, Indian Overseas Bank, Kaloor, Kochi</p> <p><u>Representative of</u></p> <p>Chief General Manager, Indian Overseas Bank, Bangalore City Branch, Gandhi Nagar, Bangalore- 560 009</p>
<b>B</b>	<b>EXPERT</b>
10	Shri. D.N. Nirranjan Kani, Managing Director, Holista Transworld Ltd, 4th Floor, 6/18 Casa Major Road, Egmore, Chennai

<b>C</b>	<b>OTHERS</b>
13	Dr. K. Muralidharan, Director Coconut Development Board, Kochi
14	Dr. A.K.Nandi, Secretary, Coconut Development Board, Kochi
15	Sri. Sreekumar Poduval Junior Processing Engineer, CDB, Kochi
16	Smt.Cicily George, Finance Officer Coconut Development Board, Kochi
17	Smt. Deepthi Nair, Marketing Officer Coconut Development Board, Kochi
18	Smt. Jayashree A , Senior Technical Officer Coconut Development Board, Kochi
19	Smt. D.S. Resmi, Technical Officer Coconut Development Board, Kochi