

Proceedings of the 38th meeting of Project Approval Committee (PAC) of Technology Mission on Coconut held at Kochi on 18th May 2012

The 38th 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 18th May 2012 with Shri. T.K. Jose IAS, Chairman, Coconut Development Board and Chairman PAC in the chair. The list of members attended the meeting is given in annexure I.

Chairman welcomed the members of PAC and the experts to the meeting. In his introductory remarks Chairman suggested that the policies and perspectives for implementing TMOC programmes have to be reoriented in the context of changing market scenario and sought the advise of the members on how to move ahead. He also mentioned that during the 12th five year plan a five fold increase in allocation has been requested from Govt. of India. At the present level coconut, copra, oil prices are dwindling and the unstable market condition is posing a threat to the coconut farmers. Coconut oil has now become the cheapest oil available in the country with out any rationale or logic. The input cost is on the rise, availability of the skilled labour is a constraint. Unless some structural changes are effected and innovative mechanism for value realization to the coconut farmers is devised, the interest in coconut farming cannot be sustained. Chairman said that the Board has already addressed the major coconut growing states to provide additional 25% subsidy for entrepreneurs making value added coconut products over and above TMOC assistance. They have been also requested to explore possibilities of establishing 'Coconut Parks' at least in major coconut growing districts (At least in districts where coconut cultivation is 25000 ha. or more). Kerala Govt. has already announced additional 25% assistance limited to a ceiling of Rs.25 lakhs for new coconut processing units to be established in Kerala. Chairman suggested that atleast 25% of the total production of coconut should go for value added products other than copra & coconut oil. He also mentioned about the forthcoming techno-economic tie up with friendly countries like Trinidad & Tobago, Kenya & Mozambique.

AGENDA No. 1: Confirmation of the Proceedings of 37th Project Approval Committee Meeting held on 12th December 2011

The Committee confirmed the proceedings of the 37th Project Approval Committee Meeting

AGENDA No. 2: Action taken report of the 37th PAC Meeting

The committee perused the action taken on the decision of the 37th meeting of the Project Approval Committee.

AGENDA No. 3: Approval of new project proposals:

1. *Techno-economic feasibility of coconut wood canoes for small scale fisheries sector in the south west coast of India and Lakshadweep - Central Institute of Fisheries Technology, Matsyapuri, Kochi at a total cost of Rs.52.60 lakhs*

The project was presented by Dr. Leela Edwin, Head, Fishing technology division, Central Institute of Fisheries Technology, Matsyapuri, Kochi. The objective of the project is to standardize treatment of coconut wood for canoe construction, design and construct small fishing craft from coconut wood for the west coast of India, to study the economic feasibility of introduction of coconut wood canoe for small scale fisheries sector and popularization of coconut wood canoes in small scale fishery sector. It was explained that the treated coconut wood could increase the life of canoes by many fold. It was suggested that once the treatment of wood is standardized the technology could also be utilized for primary processing of coconut wood for commercial applications. Director, CPCRI suggested that coconut wood canoes can also be tried in A&N Islands. Chairman CDB assured that availability of coconut wood would be ensured by CDB. CCDO suggested that studies on RWD affected coconut palms conducted by KFRI may also be referred to. After detailed deliberations the PAC approved the project at a total cost of Rs.52.60 lakhs.

2. *Development of Nutra coconut oil rich in ω -3 & ω -6 fatty acids and health protective phytochemicals - CFTRI, Mysore at a total cost of Rs.25 lakhs*

The project was presented by Dr. Nasirullah, Senior Principal Scientist, CFTRI, Mysore. The objective of the project is to isolate nutraceutical concentrates using alcohols and their aqueous mixture from flax, sesame, sunflower, cottonseed etc. cakes, to fractionate the flaxseed oil to isolate the ω -3 and ω -6 fatty acid rich glycerides and other phytochemicals, incorporate the above two factors in to the coconut oil to develop the nutra-coconut oil, to study the nutritional and stability aspects of nutra-coconut oil and to prepare traditional snacks in nutra-coconut oil and study their chemical and sensory attributes.

The committee approved the project in principle, limiting the institutional charges to 10% of total cost. The committee also opined that developed nutra coconut oil has to be tested in different regions of country for the consumer acceptability. Further, the split up of equipments and details of staff, pay structure etc. may be furnished by the PI.

3. Proposal for development of tender coconut punch cum splitter and hand opener – M/s.Apex Design center, Coimbatore at a total cost of Rs.6.00 lakhs

The project was submitted by M/s.Apex Design Center, Coimbatore. The objective of the project is to develop a robust machine to make a hole in the Tender Coconut to drink the water and mechanism to split for taking the inside meat, the Punch cum Splitter and Tender Coconut Opener prototypes till now developed will be taken as Benchmark, the system has to be cost effective and easy for use and manual controls with Levers have to be adopted.

The committee opined that the project should be for fine-tuning of the prototype developed and to make it acceptable to common vendor and to make available at an affordable price. The product so developed should also offer training, spares and warranty. The first phase of project with a costing of Rs.8.5 lakhs to be shared equally by the promoter and Board was approved in principle and Chairman was authorized to approve the revised proposal incorporating terms and conditions.

4. Isolation characterization and evaluation of in-vitro Anti-cancer and anti-oxidant activities of polyphenols from kernel and oil from coconut - SNGIST Group of Institutions, Sree Narayana Guru Institute of Science and Technology, North Paravoor, Ernakulam at a total cost of Rs.31.76 lakhs

The project was submitted by Dr. Nevin.K.G, Assistant Professor, Department of Biochemistry, Division of Biosciences, Sree Narayana Guru Institute of Science and Technology, North Paravoor, Ernakulam. The objective of the project is collection of materials, preparation of virgin coconut oil (By mild heating of coconut milk), preparation of copra oil, isolation of polyphenols, characterization of polyphenols and biological activities-Anti microbial activity, anti cancer activity, antioxidant activities. The committee appreciated the initiative and approve the project in principle subject to submission of the following

- i) Details of manpower to be explained.
- ii) 50% share of SNGIST to be clarified & detailed.
- iii) Institutional charges to be limited to 10%.
- iv) The project may be revised and submitted to Chairman for sanctioning the eligible financial assistance.

5. Enrichment of coconut chips as a functional food -Department of Food Science and Technology, Pondicherry University, Puducherry at a total cost of Rs.8.16 lakhs

The revised project was submitted by Dr. N. Sangeetha, Lecturer, (Food Product Development and Therapeutic Nutrition) Department of Food Science and Technology, Pondicherry University, Puducherry. The objective of the project is standardization and

estimation procedure for various phytochemical in related produce which are to be used as functional food, to develop a variety of coconut chips by intercropping related produce, to analyze the nutrient and phytochemical content of the developed coconut chips so as to highlight its various functional food characteristics, to evaluate the sensory attributes of the developed coconut chips and to select the suitable packaging material for increasing the shelf life of developed chips.

PAC approved the project under the head “Development of technologies for processing and product diversification” at a total cost of Rs.8.16 lakhs.

6. Proposal for setting up of a VCO manufacturing unit -Integral Coconut Products, Meppayyur, Kozhikode at a total cost of Rs.109 lakhs

The objective of the project is establishment of Virgin Coconut Oil Manufacturing Unit with a capacity to process 10,000 nuts per day for producing 600 ltrs virgin coconut oil per day. It was clarified by the promoter that water, power and wide motorable roads are available in the site.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land & Land Dev.	13.60	-	-
Building & Civil works	27.00	27.00	6.750
Plant & Equipments	60.00	58.27	14.568
Technical know-how	0.55	0.55	0.137
Lab equipments	1.85	1.85	0.463
Preliminary & Pre op. expenses	3.00	0.88	0.220
Working Capital margin	3.00	-	-
TOTAL	109.00	88.55	22.138

The project was approved in principle subject to the condition that effluent treatment plant (ETP) to be incorporated and permission for Pollution Control Board obtained. PAC authorized Chairman to sanction the eligible subsidy based on the revised proposal as and when submitted.

7. Setting up of a virgin coconut oil manufacturing unit- M/s. Keram Extractions, Vilayattoor, Meppayyur, Kozhikode at a total cost of Rs.116 lakhs

The objective of the project is establishment of Virgin Coconut Oil Manufacturing Unit with a capacity to process 7500 nuts to extract 180 ltrs of Virgin Coconut Oil per day and 100 ltrs of coconut water per day for Coconut Vinegar.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	17.00	-	-
Building	20.00	20.00	5.000
Plant & Machinery	73.85	62.60	15.650
Technical know-how	0.55	0.55	0.138
Furniture & Office equipments	0.60	-	-
Preliminary & Pre op. expenses	1.00	-	-
Working Capital margin	3.00	-	-
TOTAL	116.00	83.15	20.788

The project was approved in principle subject to the condition that clarification regarding cost of milk extraction machine and details of electrification to be obtained and authorized Chairman to approve the revised project as and when submitted. The unit should submit monthly progress report on the commencement of production and thereafter every quarter. Copy of the registration certificate by industry Deptt. and Pollution Control Board clearance may be submitted.

8. Establishment of Virgin Coconut oil manufacturing unit-M/s. Saroja Extractions, Kinfra Industrial Park, Kasaragod at a total cost of Rs.108.70lakhs.

The objective of the project is establishment of Virgin Coconut Oil Manufacturing Unit with a capacity to process 7500 nuts per day for producing 450 lts Virgin Coconut Oil per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land (leased)	5.00	-	-
Land dev. & fencing	2.60	2.60	0.65
Building	40.00	27.00	6.75
Plant & Machinery	39.10	39.10	9.78
Electrification	4.10	4.10	1.03
Generator	5.00	5.00	1.25
Tools & equipments	3.75	3.75	0.938
Technical know-how	0.55	0.55	0.137
Furniture & office equipments	2.50	-	-
Preliminary & Pre op.exp.	0.50	-	-
Working Capital margin	5.60	-	-
TOTAL	108.70	82.10	20.525

The project was approved in principle subject to the condition that details of plant & machineries for Rs.39.10 lakhs and transfer of technology certificated is furnished. PAC authorized Chairman to sanction the eligible subsidy as and when details are submitted.

9. Establishment of an Integrated Coconut processing unit for the production of VCO and Desiccated coconut. -M/s. Ambadi Edible Oils and Foods, Pankajakasthuri, Kandla, Kattakkada, Trivandrum at a total cost of Rs.108 lakhs

The objective of the project is setting up of coconut processing unit for production of Virgin Coconut oil with a capacity to process 10,000 coconuts/day for producing 600 lts Virgin Coconut Oil per day and to process 20,000 coconuts/day for producing 2 MT Desiccated Coconut Powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Leased	-	-
Building (Renovation and new construction)	23.30	23.30	5.825
Plant & Machinery	65.00	63.044	15.761
Technical know-how	0.55	0.55	0.137
Generator	6.15	6.15	1.538
Preliminary & Pre op. expenses	2.00	0.97	0.242
Working Capital margin	11.00	-	-
TOTAL	108.00	94.014	23.503

The project was approved in principle subject to the condition that clarification for building on leased land to be obtained and authorized Chairman to sanction the eligible subsidy.

10. Setting up of a Desiccated coconut powder manufacturing unit -M/s. AM coconut Industries, Kulathupalayam, Pappini, Tamilnadu at a total cost of Rs.54.81 lakhs

The objective of the project is setting up of Desiccated Coconut Powder Manufacturing Unit with a capacity to process 16000 coconuts per day for producing 1.63 MT Desiccated Coconut Powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land & Land Dev.	6.00	-	-
Building & Civil works	21.50	21.50	5.375
Plant & Equipments	20.05	20.05	5.012
Furniture & fittings	0.50	0.50	0.125
Electrical installation	1.50	1.50	0.375
Pre op. expenses	1.00	0.50	0.125
Working Capital margin	4.26	-	
TOTAL	54.81	44.05	11.012

The project was approved in principle subject to the condition that financial implication - Break even point 95% is too high & has to be clarified. Blanching & Effluent Treatment Plants (ETP) to be incorporated in the project. PAC authorized Chairman to sanction the eligible subsidy for the project on clarifying the same and based on the revised costing of the project.

11. Setting up of a desiccated coconut powder manufacturing unit -M/s.Raecon Foods, SS colony, Madurai, Tamilnadu at a total cost of Rs.137 lakhs

The objective of the project is setting up of desiccated coconut powder manufacturing unit with a capacity to process 22,000 nuts per day for producing 2 MT Desiccated Coconut Powder per day. The project was approved with an eligible cost of Rs.112.80 lakhs and eligible subsidy of Rs.28.20 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	14.00	-	-
Building	25.00	25.00	6.25
Civil & structural foundation – machinery	5.00	5.00	1.25
Plant & Machinery	66.50	66.5	16.625
EFT & Disposal system	3.00	3.00	0.75
Chimney, Duct and electrical works	5.00	5.00	1.25
125 KVA Generator	6.50	5.00	1.25
Storage bins, material handling eqpts., weighing machine, packing tools, misce. eqpts	2.00	2.00	0.5
Furniture & office equipments	1.00	-	
Preliminary & Pre op. exp.	2.00	1.30	0.325
Working Capital margin	7.00	-	
TOTAL	137.00	112.80	28.20

12. Setting up of coconut desiccated powder manufacturing unit- M/s. Jaimaruthi Agro Tech, Halkurke Road, Geddalalahali village, Tiptur, Tumkur, Karnataka at a total cost of Rs.146.82 lakhs

The objective of the project is establishment of Desiccated Coconut Powder with a capacity to process 50,000 nuts per day for producing 5 MT Desiccated Coconut Powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Barbed wire fencing	1.30	1.30	0.325
Building	60.00	60.00	15.00
Labour quarters	14.40	-	-
Plant & machinery	57.00	57.00	14.25
Advances & Deposits- Bescom	1.32	-	-
Working Capital	12.80	-	-
TOTAL	146.82	118.30	29.575

PAC suggested that:

- i) Financial implications, IRR & BEP etc. to be worked out and furnished.
- ii) Blanching and Effluent Treatment Plants (ETP) to be incorporated in the project.
- iii) The Bank appraisal report for the project has to be submitted.
- iv) Clarification on quality heater and chamber to be submitted.

PAC authorized Chairman to sanction the eligible subsidy based on the clarifications and revised proposal as and when submitted.

13. Setting up of desiccated coconut manufacturing unit - M/s. M. Rajalakshmi oil Pvt. Ltd., Pollachi, Tamilnadu at a total cost of Rs.259.35 lakhs

The objective of the project is setting up of desiccated coconut powder manufacturing unit with a capacity to process 50,000 nuts per day for producing 5 MT Desiccated Coconut Powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	Limited to Rs.50.00 lakhs
Building & Civil works	98.00	80.00	
Plant & Equipments	129.50	111.52	
Electrical installation	9.50	9.50	
Furniture & sundry assets	0.87	0.87	
Pre op. expenses	9.63	2.47	
Contingencies	11.85	-	
TOTAL	259.35	204.36	50.00

The project was approved with a maximum eligible subsidy of Rs.50.00 lakhs.

14. Project for manufacturing of Desiccated Coconut Powder manufacturing unit -M/s. Nisarga coconut Industries, Kundapur Taluk, Udupi at a total cost of Rs.121.77 lakhs

The objective of the project is production of Desiccated Coconut Powder with a capacity to process 15,000 coconut per day for producing 1.5 MT Desiccated Coconut Powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	1.75	-	-
Building & Civil works	40.00	40.00	10.00
Plant & Equipments	67.46	67.46	16.865
Electrical installation	11.06	5.00	1.25
Preliminary & Pre op. expenses	1.50	1.20	0.30
TOTAL	121.77	113.66	28.415
Working Capital margin	25.00		

The project was approved in principle subject to the condition that details of capacity utilization and financial implications, IRR, DSCR etc. to be furnished, Bank appraisal for the project to be obtained and cost of VFBD to be clarified. PAC authorized Chairman to sanction the eligible subsidy based on the clarifications and revised proposal as and when submitted.

15. Manufacturing of Desiccated Coconut powder -M/s. Rose Agrotech, Kuntalpadi, Udupi Dist., Karnataka at a total cost of Rs.90.58 lakhs

The objective of the project is production of Desiccated Coconut Powder with a capacity to process 20,00,000 nuts per year for producing 200 T Desiccated Coconut Powder per year.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	52.70	36.00	9.00
Plant & Equipments	25.75	25.75	6.437
Electrical installation	4.28	4.28	1.07
Pre op. expenses	3.00	0.86	0.215
Others	0.60	-	-
Working Capital margin	4.25	-	-
TOTAL	90.58	66.89	16.722

The project was approved in principle subject to the condition that blanching and Effluent Treatment Plants (ETP) to be incorporated and bank appraisal for the project to be submitted. PAC authorized Chairman to sanction the eligible subsidy based on submission of the above.

16. Setting up of a Coconut Processing Unit - Peringottukurissi General Agrl. Mktg & Processing Co-operative Society Ltd, Peringottukurissi, Palakkad at a total cost of Rs.43 lakhs

The objective of the project is setting up of a Coconut Processing Unit with a capacity to process 25000 nuts per day for producing copra and coconut oil. The project was approved with an eligible cost of Rs.33.89 lakhs and eligible subsidy of Rs.8.472 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land & land development (12 cents)	3.50	-	-
Building & Civil works (3200 sq.feet) including heating chambers and technical foundation	13.50	13.50	3.375
Plant & Machinery	20.00	20.00	5.00
Furniture and off. Equipments	1.00	-	-
Preoperative expenses	1.00	0.39	0.097
Working Capital margin	4.00	-	-
TOTAL	43.00	33.89	8.472

17. Setting up of a coconut shell charcoal manufacturing unit - M/s. Senni Andavar Coconut Shell charcoal, Kallappalayam, Tamilnadu at a total cost of Rs.48.59 lakhs

The objective of the project is setting up of coconut shell charcoal manufacturing unit with a capacity to produce 8 MT / day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Lease	-	-
Building & Civil works	11.00	11.00	2.7500
Plant & Equipments	28.00	28.00	7.0000
Furniture & fittings	0.75	0.75	0.1875
Electrical installation	1.50	1.50	0.3750
Electrical equipments	0.35	0.35	0.0875
Preliminary & Pre op. expenses	2.00	0.43	0.1070
Working Capital margin	4.99	-	-
TOTAL	48.59	42.03	10.507

The project was approved in principle subject to the condition that details of permission from Panchayath, registration with DIC etc. to be obtained. PAC authorized Chairman to sanction the eligible subsidy based on receipt of the above.

18. Setting up of shell charcoal manufacturing unit - M/s. Elite Natural Private Ltd., Hosur, Tamilnadu at a total cost of Rs.36.16 lakhs

The objective of the project is establishment of charcoal manufacturing unit with a capacity to produce 237.6 MT Charcoal per year. The project was approved in principle subject to the submission of copy of land document estimate for the building and bank appraisal report. PAC authorized Chairman to sanction eligible subsidy on receipt of the above.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land			
Building & Civil works	10.660	8.00	2.00
Plant & Equipments	25.500	25.500	6.375
TOTAL	36.16	33.50	8.375

19. Setting up of a coconut shell powdering unit -M/s. VG.Tinder Products (P) Ltd., Salem, Tamilnadu at a total cost of Rs.94.94 lakhs

The objective of the project is setting up of Shell Powder Manufacturing Unit with a capacity to process 12 Tons Coconut shell powder/day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	25.75	25.75	6.4375
Plant & Equipments	55.82	55.82	13.955
Electrical installations	2.75	2.75	0.6875
Preliminary & Pre op. expenses	2.00	0.86	0.215
Working Capital margin	8.62	-	-
TOTAL	94.94	85.18	21.295

The project was approved in principle subject to the condition that details of permission from Panchayath / registration with DIC and no objection certificate from Pollution Control Board to be obtained. PAC authorized Chairman to sanction the eligible subsidy based on the revised proposal.

20. Setting up of coconut shell powder manufacturing unit -M/s. Sri Lakshmi Agro Industries, Shivaya Nagar, Salem, TN at a total cost of Rs.140 lakhs

The objective of the project is setting up of coconut shell powder unit with a capacity to process 16 MT coconut shell powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land			
Building & Civil works	40.50	40.50	10.125
Plant & Equipments	80.00	80.00	20.00
Furniture	0.50	0.50	0.125
Electronic Equipments	1.00	-	-
Electrical installation	5.00	5.00	1.25
Pre op. expenses	5.00	1.32	0.33
Working Capital margin	8.00	-	-
TOTAL	140.00	127.32	31.83

The project was approved in principle subject to the condition that bank appraisal report, permission from Panchayath / Industry Department and Pollution Control Board to be obtained. Inclusion of welding machine also to be clarified. PAC authorized Chairman to sanction the eligible subsidy on receipt of the above.

21. Setting up of a Activated Carbon unit - M/s. Kavin Carbons Pvt. Ltd, N.Subramaniapuram, Sattur Taluk, Tamil Nadu at a total cost of Rs.326 lakhs

The objective of the project is setting up of Activated Carbon unit with a capacity to process 4 tonnes of Granular Activated Carbon per day. The project was approved with an eligible cost of Rs.312.54 lakhs and eligible subsidy of Rs.50.00 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	5.00	-	-
Building & Civil works	105.00	105.00	Limited to Rs.50 lakhs
Plant & Equipments	190.00	183.28	
Electrical installation	21.00	21.00	
Pre op. expenses	5.00	3.26	
TOTAL	326.00	312.54	50.00

22. Setting up of a coconut ball copra making unit - M/s. Abhaya Coconut Works, Koorara, Thalassery, Kannur at a total cost of Rs.18.032 lakhs

The objective of the project is manufacturing of coconut ball copra with a capacity to process 40,000 nos / batch. The project was approved with an eligible cost of Rs.8.60 lakhs and eligible subsidy of Rs.2.15 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building	6.500	6.5	1.625
Equipments	2.100	2.1	0.525
Working Capital	9.432	-	-
TOTAL	18.032	8.6	2.15

23. Setting up of a boda making unit -Shri. Jafar, S/o Abdulla, Madathil House, Kuttiyadi at a total cost of Rs.25 lakhs

The objective of the project is setting up of ball copra making unit with a capacity to process 1,60,000 coconuts per year. The project was approved with an eligible cost of Rs.18.50 lakhs and eligible subsidy of Rs.4.625 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	2.00	-	-
Building & Civil works	17.50	17.50	4.375
Plant & Equipments	0.90	0.90	0.225
Preliminary expenses	0.10	0.10	0.025
Working Capital margin	4.50	-	-
TOTAL	25.00	18.5	4.625

24. Setting up of a coconut processing unit for production of copra -M/s.Thennai Agro products, Pollachi Road, Meenakshipuram, Coimbatore at a total cost of Rs.51 lakhs

The objective of the project is establishment of copra processing unit with a capacity to process 30000 nuts per day. The project was deferred by the committee since it was decided as a policy that projects for copra and oil will not be considered from the private promoters except Societies / Farmers Organizations / Coconut Producer's Societies.

25. Setting up of a boda making unit - Shri. Mammad, Ayoth House, Kolathur, Kozhikode at a total cost of Rs.6 lakhs

The objective of the project is setting up of a ball copra making unit with a capacity to process 120 Q ball copra per month. The project was approved with an eligible cost of Rs.4.75 lakhs and eligible subsidy of Rs.1.187 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	4.15	4.15	1.037
Plant & Equipments	0.60	0.60	0.150
Others	0.05	-	-
Working Capital margin	1.2	-	-
TOTAL	6.00	4.75	1.187

26. Setting up of a boda making unit -Shri. Mohanan, Mathath House, Maruthonkara, Kozhikode at a total cost of Rs.10 lakhs

The objective of the project is setting up of a ball copra making unit with a capacity to process 80,000 Nos. coconuts per year. The project was approved with an eligible cost of Rs.8.55 lakhs and eligible subsidy of Rs.2.137 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	1.00	-	-
Plant & Equipments	0.13	0.13	0.0325
Building & civil works	8.32	8.32	2.0800
Pre op. expenses	0.05	0.10	0.0250
Working Capital	0.50	-	-
TOTAL	10.00	8.55	2.137

27. Production and distribution of quality hybrids & dwarf planting materials in a participatory mode

Chairman explained that introduction of Rejuvenation & Replanting scheme and other programmes such as AEP underplanting/replanting etc. increased the requirement for large number of quality coconut seedlings. As a policy decision it has been decided that hybrids & dwarf to replace/introduce at least 40% of the palm population. The availability of hybrids is estimated to be around 0.5 million only.

Therefore thrust is given by Govt. of India and the Board for augmentation of the supply of dwarf and hybrid seedlings as an emergent requirement to increase the productivity and production potential of coconut. The total requirement of seedlings estimated is about 10 million annually in the country, whereas the availability is less than 5 million only. Even though good D X T seedlings have been released by CPCRI, and SAU's the availability of hybrids is miniscule.

In order to bridge the gap between demand and supply Board has taken a decision to rope in the experience and facilities available with leading academic institutions and NGO's having professional and technical capabilities, manpower, managerial capacities and infrastructure to take up large scale production of hybrids and dwarf seedlings in the field with an objective to produce large scale of quality hybrid seedlings and dwarf seedlings by adopting scientific package of practices recommended by SAU/ ICAR. The project will also help to take up studies on genetics, breeding, physiology, biotechnology on coconut. Both Dr.George. V. Thomas, Director, CPCRI and Dr. M. Aravindakshan welcomed the proposal and suggested that the scheme is a felt need of the hour. It was further explained that wide publicity was given for the scheme through the print media and website inviting proposal from such institutions/organizations. Detailed project reports incorporating objective, methodology, technical content, manpower, costing, project period, outcome and share of the board/ Institution has been received from 6 institutions-Assumption College, Changanassery, Catholicate College, Pathanamthitta, St.Thomas College, Pala, Sacred Heart College, Thevara, M/s. Maithri,

Palakkad, Center for Research and Development in Health Hygiene and Environment (CRDHHE), Kozhikode

After detailed discussion the PAC decided that based on the progress of the survey and documentation and based on the superior mother palms identified by each of the institutions, projects for hybrid seedlings production by the institution may be sanctioned by the Chairman as per the prescribed guidelines recommended by the committee (copy enclosed). It was also suggested that the project assistants and selected FOCTs may be provided skill development training on Hybridization & nursery techniques so as to equip them for undertaking pollination work. Training would be imparted in DSP farms / CPCRI and the cost on training would be met by Board under ongoing programme Training & Visit under IT. Chairman informed that the first batch of training for the pollinators will begin from 24.05.2012 at DSP farm, Mandya.

It was also suggested that under the parameters to be taken in to account for hybridization programme incentives may also be provided to pollinators in addition to fixed wages. Director, CPCRI opined that it is a good project and informed that the required pollen for the programme could be supplied by CPCRI. Dr.M.Aravindakshan suggested that the expenditure on ELISA test whenever conducted may be reimbursed additionally. There should also be flexibility in working out the cost of hybridization depending on the operational area, and number of mother palms identified by each institution etc. The assistance may be restricted to 50% of the project cost with a maximum ceiling of Rs.35.00 lakhs.

It was also decided that Dr.M. Aravindakshan, Former Chairman, CDB and one of the experts of PAC shall be one of the members of the monitoring committee constituted for the programme. Since many of the institutions cannot generate 50% of the funds for taking up the programme for a period of three years, the Board may address the commercial banks to provide finance to the needy institutions for the hybridization/nursery programme on a case to case basis.

The PAC finally directed to take necessary steps to commence the programme as early as possible so that the seedlings under the programme should be ready by 2013 end.

28. Region based recommendation to improve coconut production in Tamilnadu through remote sensing and GIS -Tamil Nadu Agricultural University, Coimbatore at a total cost of Rs.10.846 lakhs

The project was submitted by Dr. R. Krishnan, Associate Professor (Agronomy), Dept. of Remote sensing and GIS, Directorate of Natural Resource Management, Tamilnadu Agricultural University, Coimbatore. The objective of the project is to map coconut growing areas region wise in Tamil Nadu through remote sensing and GIS techniques, to create soil database using GIS for coconut growing areas of Tamilnadu, to identify the soil based production constrains and to recommend ameliorative measures to augment coconut production in Tamil Nadu.

The PI presented the project and clarified the points raised by the experts from ISRO. PI stated that Multi-temporal LISS III data scenes will be used for classification and quantification of coconut growing areas as suggested by ISRO. The committee noted that it is a futuristic project and approved the project at a total cost of Rs.10.846 lakhs by limiting the institutional charges to 10%.

29. Refinement of production technology of green muscardine fungus and participatory field validation of integrated biocontrol technology against rhinoceros beetle of coconut -CPCRI, Regional Station, Kayamkulam at a total cost of Rs.19.86 lakhs

The project was submitted by Dr. Chandrika Mohan, Senior scientist (Agricultural Entomology), CPCRI, Regional Station, Kayamkulam. The objective of the project is to integrate and optimize bio-intensive Pest Management for the coconut Rhinoceros beetle, *Oryctes rhinoceros* Linn. using green muscardine fungus (*Metarhizium anisopliae*), *Oryctes rhinoceros* virus and pheromone trap and validation and assessment of the technology through farmer participatory large area demonstration. The PAC suggested that the field studies may be linked with farm school established in association with CDB registered CPS in Alappuzha district in compact areas.

The project should indicate year wise milestones and time frame for each activity. The first stage should be completed within 3 months. The committee approved the project at a total cost of Rs.19.86 lakhs. The committee suggested that the area of 1500 ha. may be selected in Alappuzha district itself, so that more focused results could be achieved.

30. Market Promotional Programme for Amma Chill Trill Coconut Products & Bakery- M/s.Amma Chill Trill Coconut products & Bakery, Kunnumpuram, Edappally North P.O.Ernakulam at a total cost of Rs.3.57 lakhs

The objective of the project is to carry out various market promotional programme for sale of coconut products and elaneer panthal. The committee approved the project in principle subject to the condition that detailed revised proposal indicating the location, estimated cost, sketch/drawings of the proposed construction to establish tender coconut water parlour in a hygienic and attractive manner to be obtained and authorized Chairman to approve the revised project as and when submitted with a maximum ceiling of Rs.1.5 lakhs per stall.

31. Market Promotional Programme for Tender Coconut Parlour- Geetha Lakshmi .R. Payyampallil House, Mavelikara, Alappuzha District at a total cost of Rs.2.33 lakhs

The objective of the project is to carry out various market promotional programme for tender coconut by setting up of tender coconut parlour at Chettikulangara, Mavelikara. The

committee approved the project in principle subject to the condition that detailed revised proposal indicating the location, estimated cost, sketch/drawings of the proposed construction to establish tender coconut water parlour in a hygienic and attractive manner to be obtained and authorized Chairman to approve the revised project as and when submitted with a maximum ceiling of Rs.1.5 lakhs per stall.

32. Market Promotional Programme for Tender Coconut parlor. - M/s.Green Farm, C/o. Chalakudy Nalikeru Udpadaka Sangam. Potta, Chalakudy at a total cost of Rs.2.43 lakhs

The objective of the project is to carry out various market promotional programme for a retail outlet for tender coconut water. The committee approved the project in principle subject to the condition that detailed revised proposal indicating the location, estimated cost, sketch/drawings of the proposed construction to establish tender coconut water parlour in a hygienic and attractive manner to be obtained and authorized Chairman to approve the revised project as and when submitted with a maximum ceiling of Rs.1.5 lakhs per stall.

33. Market Promotional Programme for the establishment of Tender Coconut Parlour -The Kerala Agricultural Development Society (KADS) Thodupuzha at a total cost of Rs.2 lakhs

The objective of the project is to carry out various market promotional programme for Two elaneer Panthals – one at Thodupuzha near KADS and another at Vengalloor Junction (State Highway). The committee approved the project in principle subject to the condition that detailed revised proposal indicating the location, estimated cost, sketch/drawings of the proposed construction to establish tender coconut water parlour in a hygienic and attractive manner to be obtained and authorized Chairman to approve the revised project as and when submitted with a maximum ceiling of Rs.1.5 lakhs per stall.

34. Market Promotional Programme for setting up of Tender coconut parlour -M.U.Poulose, Moolamkuzhiyil, Kanjiramattom P.O. Ernakulam at a total cost of Rs.1.31 lakhs

The objective of the project is to carry out various market promotional programme for tender coconut by setting up of tender coconut panthal at Kanjiramattom. The committee approved the project in principle subject to the condition that detailed revised proposal indicating the location, estimated cost, sketch/drawings of the proposed construction to establish tender coconut water parlour in a hygienic and attractive manner to be obtained and authorized Chairman to approve the revised project as and when submitted with a maximum ceiling of Rs.1.5 lakhs per stall.

35. Market Promotional Programme for Establishment of Tender coconut parlour - M/s.Maithri, 2nd Floor, Municipal Complex Court Road, Palakkad at a total cost of Rs.4.30 lakhs

The objective of the project is to carry out various market promotional programme for tender coconut by setting up of three tender coconut stalls at Mobility hub Vytilla Info park Kakanad and Co- operative Hospital, Kakanad and one processing unit at Muthulamada in Palakkad District. The committee approved the project in principle subject to the condition that photographs/sketch/estimates of the outlet to be obtained. The promoter may assure maintenance of stalls in attractive / hygienic manner. The details of pre-operative expenses, plant and machinery to be obtained and authorized Chairman to approve the revised project as and when submitted with a maximum ceiling of Rs.1.5 lakhs per stall.

36. Market Promotional Programme for establishment of Tender coconut outlet -Shri. P.K.Ummer, Bunk NO. -24 Elaneer business, Oyitty Road, Kozhikode at a total cost of Rs.1.73 lakhs

The objective of the project is to carry out various market promotional programme for tender coconut by setting up of Tender Coconut Parlour at Kozhikode. The committee approved the project in principle subject to the condition that detailed revised proposal indicating the location, estimated cost, sketch/drawings of the proposed construction to establish tender coconut water parlour in a hygienic and attractive manner to be obtained and authorized Chairman to approve the revised project as and when submitted with a maximum ceiling of Rs.1.5 lakhs per stall.

37. Market Promotional Programme for Research study- M/s. Local Economic Development Society, CRWRA, Edappally, Kochi at a total cost of Rs.4.50 lakhs

The objective of the project is to carry out a research study on Assessing the potential and implications involved in Establishing a Tender Coconut Supply Chain. The committee approved the project in principle subject to the condition that modus operandi of study, area of studies (District/town/village), detailed action plan of study to be obtained and authorized Chairman to approve the revised project as and when with a maximum ceiling of Rs.2.25 lakhs.

Other Items

- 1. Synthesis and characterization of value added products from Coconut oil - Indian Institute of Science, Bangalore– Retaining of Senior Research Fellow.**

The committee approved the proposal for retaining the Senior Research Fellow by reducing the project period to 10 months ie. from 18.3.2013 to 18.1.2013 without any additional financial commitments and without affecting quality or reliability of the work.

- 2. Field demonstration of integrated disease management technology for management of coconut leaf rot disease including bio control agents- Central plantation Crops Research Institute, Kasargod- Extension of project period**

The committee approved the proposal for extension of project period by 2 more months ie. upto February 2013 and permission is also granted to incur expenditure up to March 2013.

- 3. Development of nutrient management strategy for improving the health of the palm to build resistance to pests - OUAT, Bhubaneswar - Reallocation of fund**

The committee approved the re-allocation of Rs.1,40,000/- under recurring contingencies ie. under operational cost, fertilizers, analysis of nutrients and glassware's & chemicals

- 4. Allocation of fund for the year 2012-13 - Modernization of coconut Processing and Value addition by the introduction of Modern Copra Dryers**

The PAC decided that promotion of small copra driers for individual farmer may be discontinued as it has not brought about the desired results so far. However for those who have already established and apply for the eligible subsidy may be granted.

- 5. Proposal for fund requirement for the period April 2012- March 2013 for Quality Testing Laboratory at Vazhakulam, Aluva and ratification of expenditure incurred during April 2012 – May 2012.**

Quality Testing Lab may undertake analysis of samples till small entrepreneurs assisted under TMOC get stabilized. Training should also imparted on processing and quality aspects for about 5000 farmers / prospective entrepreneurs during the year. About 100 training programme spread over the country may be organized during the year.

6. Proposal for preservation and packaging of tender coconut water by HOPCOMS, Karnataka

In view of the need for establishment of a model unit so as to motivate the prospective entrepreneurs, the proposal for HOPCOMS for Preservation & Packing of Tender coconut water at a total cost of Rs.100 lakhs was approved in principle. Technology should be got transferred from DFRL through CDB. A detailed project report also should be presented along with the Government orders on sanctioning / releasing of State fund / KHF/ Dept. of Horticulture forward by observing all codal formalities.

7. Project for Setting up of a mechanized D.C. powder & Bio gas unit- Chamarajanagar Taluk Coconut Growers Processing & Mktg Co-op. Society Ltd, Chamarajanagar Dist, Karnataka

Director explained that Additional District Magistrate, Chamaranjanagar has clarified that the Registrar of Co-operatives will sign the MoU and maintain the subsidy account. Since it is a Govt. sanctioned programme through co-operative society, the share of the Board of Rs.50 lakhs is approved for release by observing codal formalities.

8. Extending support for community based infrastructure for copra making

In view of the present alarming situations arising out of the fall in coconut / copra prices as an emergent requirement, it was decided to handhold the CPS by providing 50% of the cost for setting up modern copra dryer units by limiting the subsidy up to 6 lakhs per unit in major coconut producing district of Kerala during 2012 season. A total number of 20 units will be supported under the TMOC scheme during this year on a case to case basis from federations of CPS.

The meeting concluded by 5.30 P.M with a vote of thanks.

Dr.K. Muralidharan
Director

S.No.	Name and address
A	MEMBERS
1	Shri. T.K. Jose IAS Chairman, Coconut Development Board
2	Shri. Ravindranathan P.C, Additional Director of Agricultural <u>Representative of</u> 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, IIIrd Stage, IVth Floor, Dr. Ambedker Veedhi, Bangalore.
4	Dr. George. V. Thomas, Director, CPCRI, Kasaragod <u>Representative of</u> Assistant Director General (Plantation crops) Indian Council of Agriculture Research (ICAR), Krishi Anusandhan Bhavan –II, Pusa, New Delhi
5	Shri. V. Rajaraman, Manager, NABARD Kerala RO, Trivandrum <u>Representative of</u> Chief General Manager, Technical Services, Investment Credit Department, 3 rd 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 Directorate of Marketing & Inspection, Kochi 6th floor, A Block, Agmark, Kendriya Bhavan, Kakkand</p> <p><u>Representative of</u></p> <p>Joint Secretary & Agricultural Marketing Adviser to Govt. of India, Room No.237, Krishi Bhavan, New Delhi</p>
7	<p>Mr. Sathishkumar. D, Senior Manager (RRO) Indian Overseas Bank, Regional Office, Ernakulam</p>
8	<p>Shri. T. Sivashanmugam, Asst. Manager Indian Overseas Bank, Regional Office, Ernakulam</p>
9	<p>Shri. M Thomas Mathew, Chief Coconut Development Officer, Coconut Development Board, Kochi & Member Secretary, PAC</p>
B	EXPERT
10	<p>Dr.M.Aravindakshan Co-ordinator, Amritha School of Environmental Studies, Ettimedai, Coimbatore - 641 105</p>

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

Hybridization - Parameters to be taken in to account

- The programme should be implemented by strictly in accordance with the hybridization technology developed by SAU/ ICAR and following a detailed guidelines prepared by the Board and approved by the competent authority.
- Each project should indicate the annual outcome namely – number of hybrid and dwarf seedlings to be produced per year.
- The institutions should have competent, technical manpower, infrastructure and managerial capacity to undertake the project on a long term basis (at least for a period of 5 years).
- Once the revised project is approved in principle the organization/institution should undertake the survey within the specified district (operational area) to identify dwarf mother palms (2000 nos.) and elite tall palms (300–500 nos.) and document the same.
- The expenditure on survey and documentation of the mother palms could be met from the ongoing programme Marketing and statistics (Surveys). The documents on the details of the mother palm with photos of the marked trees will remain the property of the Board. It is suggested that an amount of Rs.50/- may be compensated for each mother palms.
- The entire planting material production programme will be monitored by a committee consisting of the designated officers/scientists of CDB/Department of Agri./Horti./SAU/ ICAR/member of PAC.
- Nursery certification will be undertaken jointly by a committee consisting of the representatives of the above organizations in the presence of institutions taking up the project.
- The participatory institution / organization should submit monthly progress to CDB.
- CDB would also undertake review of the programmes every quarter.
- The entire programme including the survey, marking of mother palm, hybridization, seed nut selection, nursery management, seedling certification etc. would be undertaken strictly in accordance with the approved package of practices of ICAR/SAU.
- Detailed documentation, registers, accounts etc. have to be maintained by the agency/institution through out the project period as per laid down procedures.
- CDB would provide training to the project assistants and the selected pollinators in association with CPCRI. The expenditure would be met under the ongoing programme 'Information and Information Technology' (Training).
- CDB would also provide a lump sum grant up to a maximum of Rs.1 lakh each for establishment of pollen bank, equipments etc. and for providing irrigation facility (including sprinkler) for nursery or the actual expenditure which ever is less.

- Apart from the above other expenditure will be equally shared by the Board and the participatory institutions for the first 2 years. Third year onwards the entire expenditure should be borne by the institutions/organizations from their receipts. The expenditure on the programme will be met under TMOC subcomponent 'Technical support, external evaluation and emergent requirement' with the approval of PAC.
- The Head of the participating organization/institution will have to enter into an MoU with the Board as provided for under the TMOC programme.
- The participating institution may undertake related research studied on the crop by utilizing the materials/infrastructure created under the project.