

Proceedings of the 46th meeting of Project Approval Committee (PAC) of Technology Mission on Coconut held at Kochi on 15th December 2015

The 46th meeting of the Project Approval Committee (PAC) on Technology Mission on Coconut (TMO) was held in the Board Room of Coconut Development Board, Kochi on 15th December 2015. Shri T. K. Jose IAS, Chairman, Coconut Development Board and Chairman PAC presided over the meeting. The list of participants is enclosed as Annexure-I. At the outset Chairman, welcomed all the PAC members and briefed the developments and innovations carried out by CDB since last PAC. Chairman informed the forum about the technology developed by CIT, Vazhakulam for making of Flavoured coconut milk. Thereafter agenda items were taken up by the PAC.

AGENDA No. 1: Confirmation of the Proceedings of 45th Project Approval Committee Meeting held on 22nd May 2015

The Committee confirmed the proceedings of the 45th Project Approval Committee Meeting held on 22.05.2015.

AGENDA No. 2: Action taken report on decisions of the 45th PAC Meeting

The committee perused the action taken on decisions of the 45th meeting of Project Approval Committee. The Committee observed the delay in signing the MoU and release of 1st instalment of subsidy in the some cases. Committee instructed AD (TMO) that in the cases where more than one month delay is noticed, the reason for delay should also be recorded in the action taken report.

AGENDA No. 3: Approval of new project proposals:

1. Development of processing technology for conversion of coconut neera to sugar – M/s Mosons Edibles, Industrial Estate, Palayad, Thalassery, Kerala

The objectives of the project are as follows:

1. To develop a processing technology to make sugar from neera
2. Understand and analyse the scope and limitations of traditional tapping methods and develop and standardize new technology.
3. Prevent the neera from quick and natural fermentation by using permitted food preservatives for minimum 24 hours in unchilled condition and standardize the procedure.
4. Develop processing technology to make sugar and allied products
5. Make use of test methods for quality analysis for various stages of operation

The project was presented by Shri Sajin Ahamed, Chief Operating Officer, Mosons Edibles in the absence of the PI. PAC discussed the project and informed that the objectives 2 and 3 are acceptable. As of now, there are 6 technologies for processing and preservation of neera and the presented process is not different from the existing processes.

Moreover for making sugar from neera, technologies are already available. But areas of study may be modified to explore the possibilities of making various food products in which cane sugar is replaced by Neera sugar/ Neera honey/ Neera concentrate and testing the nutritional aspects, taste, flavor and shelf life of such products. Products like cakes, Ice creams, biscuits, and various confectionary items including variety of sweets can be prepared by using by Neera sugar/ Neera honey/ Neera concentrate.

Hence PAC advised M/s Mosons Edibles to submit a revised project proposal for such a study. Such developed products may be tested for their quality, nutritional value and shelf life. The commercial

production of neera sugar may be taken up as a separate commercial project, for which they can approach various Coconut Producer Companies.

2. Nutritionally Enriched Deoiled Coconut Based Innovative Foods Suitable For Industrial Production- CSIR-Central Food Technological Research Institute, Mysore-570020

The objectives of the project are as follows:

1. Identification and characterization of bioactive components like polyphenols, carotenoids and dietary fiber from the deoiled coconut and selected underutilized grain like amaranth.
2. Determination of the physical properties and changes occurring due to the processing of the grain and deoiled coconut with an emphasis on their nutritional, functional and technological characteristics related to product development.
3. Development of processes for ready-to-eat and ready-to-prepare health foods using processed coconut fiber and grain, and characterization of the products.

The Principal Investigator Dr. (Mrs.) Sila Bhattacharya, Sr. Principal Scientist, CFTRI, Mysore presented the project before PAC. PAC observed that 2 years project period is too long and it may be restricted to one year. Committee opined that amaranthus is neither a principal food grain nor a minor millet so amaranthus may be replaced with whole wheat/rice, sorghum, bajra, ragi or other popular food grains and minor millet for developing healthy and diabetic friendly food products from defatted desiccated coconut powder.

Neera sugar/palm sugar may be used instead of cane sugar to make the products diabetic friendly. PAC also observed that the PI is utilizing the lab equipments and machineries of CFTRI but cost of these is not included in the project. The cost of these facilities may also be reflected in project cost as contribution of CFTRI.

PAC advised the PI to revise the project on above suggestions and resubmit to PAC for consideration.

3. Utilization of Industrial Coconut Waste for Development of Foods with Anti-Diabetes properties - CSIR-Central Food Technological Research Institute, Mysore-570020

The objectives of the project are as follows:

1. To study the coconut cake polysaccharides and its anti diabetes property
2. To develop food(s) for diabetics and obesity using coconut cake as ingredients

The Principal Investigator Dr. G. Suresh Kumar, Scientist, CFTRI, Mysore presented the project in detail. The PAC observed that the PI intends to utilize the defatted desiccated coconut powder (DCP) for development of foods with anti diabetes properties and PAC pointed out that defatted DCP is not an industrial waste but it's a by-product of Virgin Coconut Oil (VCO) industries therefore the proposed title of the project does not seem appropriate. PAC opined that PI may develop new products from the whole coconut for healthy, anti-diabetic and anti-obesity product(s) from coconut with chemical, nutritional and biochemical analysis of the product(s).

PAC also observed that PI has not shown any contribution of CFTRI despite utilization of all the assets and lab facilities of the CFTRI and advised that PI may incorporate the contribution of CFTRI also in the form of assets used in this project. PI was advised to modify the project and resubmit before PAC for consideration.

4. Management of Obesity and Obesity associated Inflammation by Tender Coconut Water and its Active Components: Assessment of Molecular Mechanism -CSIR – Indian Institute of Chemical Biology, 4, Raja S.C., Mullick Road, Kolkata – 700032, West Bengal.

The objectives of the project are as follows:

1. To identify and characterize antioxidant activity of tender coconut water and its active components.
2. To evaluate the anti-adipogenic activity of tender coconut water and its active component (*in vitro* model).
3. To develop the suitable *in vivo* obesity model for the assessment of anti-obesogenic activity of tender coconut water and its active components.
4. To evaluate the potential role of tender coconut water and its active components (Shikimic acid and quinic acid) on high fat diet-induced obesity (*in vivo* model).
5. To determine the direct involvement of redox regulated transcription factor (NF- κ B, AP-1 and STAT3) in the development of adipogenesis and thereby obesity associated inflammation and the potential role of tender coconut water and its active components on it.
6. To determine the possible involvement of the redox-sensitive transcription factor Nrf2 in the transcriptional regulation of diverse anti-oxidative enzymes induced by tender coconut water and its active components in the suppression of adipogenesis and obesity.
7. To determine the direct or indirect relation of tender coconut water and its active components in the activation AMPK (AMP-activated protein kinase).
8. Chief goal of this current project is to explore the potential benefits of tender coconut water in obesity management and also to develop a product that will suppress the obesity with known mechanism of action.

The project was presented by Dr. (Smt.) Krishna Das Saha, PI of the project through video conferencing. The PAC observed that objectives are too ambitious and its quite impossible to achieve in 3 years. Further the expert member Dr. D. M. Vasudevan briefed the PAC that the project is of a basic research.

After discussion PAC decided that CDB alone may not take up the project for basic research however CDB may support jointly with ICMR/Department of Science and Technology. PAC advised the PI that the project may be submitted to ICMR/Department of Science and Technology for joint funding with CDB.

5. Regulation of Cancer associated MicroRNAs by active components from Coconut Water and Virgin Coconut Oil: Novel therapeutic strategy for cancer-All India Institute of Medical Sciences, Bhubaneswar, Patrapada, Odisha.

The objectives of the project are as follows:

Aim of the project is to explore the molecular basis of anticancer activities of coconut water (CW) and active compound isolated from virgin coconut oil (VCO).

1. Regulation of tumor suppressor and Oncogenic MicroRNA by Virgin Coconut oil and its active components in different cancer cells line.
2. Regulation of tumor suppressor and Oncogenic MicroRNA by Coconut water and its active components in different cancer cells line.

In the absence of PI the expert member Dr. D.M. Vasudevan briefed the PAC that the project is a basic research on the qualities of virgin coconut oil and tender coconut water.

It was decided by the PAC that basic research is not the mandate of TMOOC scheme and the project cannot be supported. However, if the PI approaches ICMR or Department of Science & Technology a joint

funding of the project may be considered. PI may submit the project to ICMR/Department of Science and Technology for joint funding with CDB.

6. Setting up of Neera Processing and Packing Unit and Neera Based Value Addition Unit-M/s Vadakara Coconut Farmers Producer Co. Ltd, Vatakara, Kozhikode, Kerala

The objective of the project is setting up of neera processing and packing unit and neera based value addition unit to process 4000 liters of neera per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(Rs.in lakh)			
Land & Land Dev.	13.52	-	-
Building & Civil Works	67.89	32.00	8.00
Plant & Equipments	158.65	152.82	38.21
Electrification	9.00	9.00	2.25
Lab Equipments	6.75	6.00	1.50
D.G. set	5.16	5.00	1.25
Furniture & Office Eqpt.	1.00	...	...
Pre-operative Expenses	2.80	2.04	0.51
Contingency @ 5%	3.39	...	...
Working Capital (Margin Money)	1.96	...	...
Total	270.12	206.86	Rs.51.72 Limited to Rs.50.00

The project was presented by Shri. M. Rajkumar Menon, CEO, Vadakara Coconut Farmers Producer Co. Ltd and the PAC approved the project with an eligible subsidy of Rs.50.00 lakh.

7. Setting up of a Coconut Oil Manufacturing Unit and other Value Added Products at Muduvana- M/s Vadakara Coconut Farmers Producer Co. Ltd, Vatakara, Kozhikode, Kerala.

The objective of the project is setting up of a coconut oil manufacturing unit to process 4 tons of copra per day for producing 2700 liters of coconut oil. The unit will also process 10,000 coconut in to copra and balance copra will be outsourced from members.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(Rs.in lakh)			
Land & Land Dev.	15.00	...	...
Building & Civil Works	30.00	30.00	7.50
Plant & Equipments	128.18	128.18	32.04
Pre-operative Expenses	4.27	1.58	0.39
Total	177.45	159.76	39.93

The project was presented by the CEO of the Company. The PAC observed that the building of the unit does not have proper industrial design and structure and needs to be improved for which CPC may contact an Engineer who has experience in designing the industrial buildings. PAC decided that the project may be postponed till next PAC and CPC may rework on design and structure of the building and present the project in next PAC with proper design of the building and layout of the machineries.

8. Setting up of a Flavoured Coconut Juice Manufacturing unit – M/s Pollachi Coconut Producer Company Limited, Palakad Road, Pollachi, Coimbatore (Dt) Tamilnadu:

The objective of the project is setting up of a flavoured coconut juice manufacturing unit to process 5000 coconuts/day to produce 4000 ltrs of flavoured coconut juice.

Components	Total Project Cost (Rs.in lakh)
Land & Land Dev	...
Plant & Equipments	111.00
Building & civil works	48.00
Electrical installation	3.00
Pre-operative Expenses	5.86
ETP	10.00
RO Plant	5.00
Working capital margin	18.40
Total	201.26

The project was presented by Shri Sabhapathi and team, Pollachi CPC. PAC discussed in detail the project and technology developed by CIT for flavoured coconut milk. The committee opined that the technology developed by CIT is only at laboratory level. Hence the proposal submitted by Pollachi CPC can be considered for up-scaling the production on a commercial level.

Pollachi CPC is a Farmer Producer Company registered under the section 581B of Indian Companies Act, 1956. As this is a Farmer Producer Company with farmers as the only share holders of the company, it is considered on par with cooperative societies.

PAC approved the project under “Development of Technologies for processing and product diversification” with a financial support, limited to Rs.75.00 lakh as per TMOC norms.

9. Expansion and Modernisation of the Existing Desiccated Coconut Powder Manufacturing Unit- M/s Star Desiccated Coconut Industries, Kenchanoor Village, Kundapura Taluk, Udupi Dist., Karnataka.

The objective of the project is expansion and modernisation of the existing desiccated coconut powder manufacturing unit to process 30,000 coconuts per day from the existing capacity of 5000 nuts per day .

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.in lakh)		
Land	Own	-	-
Plant & Equipments	120.45	117.39	29.35
<u>Building & Civil works</u>			
i) Renovation of existing bldg(6200 sq.ft)	26.00	25.00	6.25
ii) New construction (2580 sq.ft)	18.00	18.00	4.50
ETP	22.00	10.00	2.50
Working Capital margin	19.63	...	...
TOTAL	206.08	170.39	42.60

The project is approved with an eligible subsidy of Rs.42.60 lakh. PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit. Discussing on the project PAC felt that since it is an expansion of existing unit the promoter should furnish last three years audited statements of accounts before the release of subsidy.

10. Setting up of a Desiccated Coconut Powder Manufacturing Unit- M/s SKB Agro Tech, KN Halli Post, Tiptur Taluk, Tumkur Dist, Karnataka

The objective of the project is setting up of a desiccated coconut powder manufacturing unit to process 20,000 coconut per day for manufacturing of 2 tons of desiccated coconut powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.in lakh)		
Land	Own	-	-
Plant & Equipments	50.95	50.95	12.74
Building & Civil works	95.00	34.00	8.50
Electrical Deposit	0.35	-	-
Office Eqpmt.	0.50	-	-
Preliminary & Pre op. expenses	0.25	0.25	0.06
Working Capital margin	2.07	-	-
TOTAL	149.12	85.20	21.30

The project is approved with an eligible subsidy of Rs.21.30 lakh. PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit.

11. Expansion & Modernisation of Existing Desiccated Coconut Powder Unit- M/s Akram Coconut Industries, Keragodi Road, Gandhinagar, Tiptur, Tumkur Dist, Karnataka

The objective of the project is expansion and modernisation of existing desiccated coconut powder unit to process 30,000 coconuts per day to manufacture 3 tons of DCP per day from the existing capacity of 15,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Plant & Equipments	4.00		
Building & Civil works	17.00		
Working Capital margin	12.00		
TOTAL	33.00	Not Applicable	

Ms. Geethu A.S, Food Processing Engineer, CIT, Vazhakulam inspected the unit on 04/11/2015 and reported that unit is more than 15 years old and in working condition. The promoter has replaced the machineries in 2013 but does not have the bills. Building is old and no renovation undertaken. Promoter has claimed 4 nos deshelling machines for expansion but only 2 machines were seen installed.

ISC observed that promoter has availed only 33% of the project cost as term loan and the proposed machinery does not justify the expansion of the project for capacity enhancement.

After detail discussion PAC decided not to approve the project.

12. Setting up of a Unit for Processing & Packing of Coconut Water (Matured and Tender) in Aseptic Bags at Beemandapalli, Krishnagiri Dist - M/s MCI Agro Industries, Reg. Office, Rajaji Nagar, Krishnagiri, Tamilnadu.

The objective of the project is setting up of a unit for processing and packing of coconut water (mature and tender) in aseptic bags with installed capacity of 3000 liters per day or 15,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	Leased	...	...
Building- Lease Advance	10.00	...	...
Plant & Equipments	67.85	60.44	15.11
Working Capital margin	12.41	...	...
TOTAL	90.26	60.44	15.11

The project is approved with an eligible subsidy of Rs.15.11 lakh PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit. PAC observed that pollution certificate was obtained in 2007 for another unit by promoter, so PAC advised the promoter to apply afresh for pollution certificate for this unit.

13. Setting up of a Virgin Coconut Oil Manufacturing Unit- M/s Nivesh Oil Mill,

Mylambadi, Bhavani Taluk, Erode Dist, Tamilnadu

The objective of the project is setting up of a virgin coconut oil manufacturing unit to process 10,000 coconuts per day for producing 600 liters of VCO per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land .	Lease	...	...
Building - Renovation of existing building and construction of new building	12.00	12.00	3.00
Plant & Equipments	63.14	61.20	15.30
ETP	6.00	6.00	1.50
Electrification	4.00	2.80	0.70
Generator	4.50	4.50	1.12
Know-how fee	0.65	0.55	0.14
Working Capital margin	8.72	...	...
TOTAL	99.01	87.05	21.76

The project is approved with an eligible subsidy of Rs.21.76 lakh. PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit.

14. Setting up of a Virgin Coconut Oil Manufacturing Unit at Ayyappanaickenpalayam, Tirupur Dist., Tamilnadu - M/s Thennai Agro Products, Meenachipuram, Pollachi, Coimbatore, Tamil Nadu.

The objective of the project is setting up of a virgin coconut oil manufacturing unit to process 2.20 lakh coconuts per day to make 13000 liters of VCO per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	Lease	-	-
Building & Civil works	87.00	78.60	19.65
Plant & Machinery	186.00	186.00	46.50
Electrification	12.00	9.30	2.32
Technical know-how	0.56	0.56	0.14
Furniture & office Eqpts	4.94	-	-
Preliminary & Pre op. Exp.	10.00	2.74	0.68
Working Capital margin	150.00	-	-
TOTAL	450.50	277.20	69.29
			Limited to 50.00

PAC approved the project with an eligible subsidy of Rs.50.00 lakh PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit.

15. Setting Up of a Virgin Coconut Oil Manufacturing Unit- M/s ENBEE EXIM, Kattathara, Krishnan Road, Perumpadappu, Palluruthy, Cochin, Kerala.

The objective of the project is setting up of a virgin coconut oil manufacturing unit to process 5,000 coconuts per day for making 300 liters of VCO per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	Own	-	-
Plant & Equipments	26.23	26.23	6.56
Building & Civil works	33.32	23.84	5.96
Electrical installation	3.97	3.97	0.99
Generator	5.20	5.00	1.25
Technical know-how	0.56	0.56	0.14
Furniture & Office Eqp.	2.68	-	-
Preliminary & Pre op. expenses	2.00	0.59	0.15
Working Capital margin	4.04	-	-
Total	78.00	60.19	15.05

PAC approved the project with an eligible subsidy of Rs.15.05 lakh. PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit.

16. Setting up of a unit for Manufacturing of Coconut Charcoal (Granular) and Coconut Shell Charcoal Briquettes at Bellary - M/s Raghavendra Chemicals & Carbons, S.J. Complex, Bellary, Karnataka.

The objective of the project is setting up of a unit for manufacturing of coconut charcoal (granular) and coconut shell charcoal briquettes by processing of 30 MT coconut shell per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	17.37	-	-
Plant & Equipments	166.47	142.00	35.50
Building & Civil works	75.70	35.11	8.77
Electrical installation	20.46	7.10	1.78
Working Capital	110.00	-	-
TOTAL	390.00	184.21	46.05

PAC approved the project with an eligible subsidy of Rs.46.05 lakh. PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit.

17. Expansion of the existing Activated Carbon Manufacturing unit at Suryanallur Village, Tirupur Dist.- M/s Sam Carbons, Kundadam Post, Dharapuram Tk., Tirupur Dist, Tamil Nadu.

The objective of the project is expansion of the existing activated carbon manufacturing unit for manufacturing of 5 MT activated carbon per day from the existing capacity of 2.5 MT activated carbon per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	Own	-	-
Building & Civil works (4500 sq.ft.)	23.04	23.00	5.75
Plant & Equipments	130.60	125.00	31.25
Working Capital margin	14.00	-	-
TOTAL	167.64	148.00	37.00

PAC approved the project with an eligible subsidy of Rs.37.00 lakh. PAC advised the promoter to convert the unit into a Pvt. Ltd. Company for raising equity, tax benefits and for effective governance systems and attracting professional staff for effective running of the unit.

18. Setting up of an Activated Carbon Manufacturing Unit- M/s Austro Carbon Pvt. Ltd., Kattalangulam Village, Tuticorin Dist., Tamil Nadu.

The objective of the project is setting up of a unit for manufacturing of 4 MT activated carbon per day from coconut shell charcoal.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	Lease	-	-
Plant & Equipments	174.74	156.00	39.00
Building & Civil works	97.50	91.60	22.90
Electrical installation	18.37	17.27	4.31
Pre-operative Expenses	31.14	2.64	0.66
Working Capital margin	32.72	-	-
TOTAL	354.47	267.51	66.87 Limited to Rs.50.00

The project is approved with an eligible subsidy of Rs.50.00 lakh.

19. Setting up of Modern Copra Dryer Unit- M/s Kodungallur Coconut Producer Co. Ltd, G.D. Complex, Perinjanam Post, Thrissur Dist, Kerala.

The objective of the project is setting up of modern copra dryer unit for processing of 10,000 coconuts per day for making of copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	Lease	-	-
Building (Shed for drying chamber)	2.80	2.80	0.70
Plant & Equipments	7.67	7.67	1.92
Preliminary & Pre op. expenses	0.18	0.10	0.03
TOTAL	10.65	10.57	2.65

The project is approved with an eligible subsidy of Rs.2.65 lakh.

20. Setting up of a Copra Making Unit at Maranchery, Malappuram Dist.- M/s Kera Suraksha Federation of Coconut Producers Societies, Maranchery Post, Malappuram Dist, Kerala.

The objective of the project is setting up of a modern copra dryer unit to process 10,000 coconuts per day for making of copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	Lease	-	-
Plant & Equipments	12.80	12.80	3.20
Building & Civil works	10.20	10.20	2.55
TOTAL	23.00	23.00	5.75
Working Capital margin	6.19	-	-
Grand Total	29.19	23.00	5.75

PAC observed a considerable difference between the project cost of modern copra dryer project of M/s Kodungallur CPC, Trichur and M/s Kera Suraksha Federation of CPS, Maranchery, Malappuram and sought clarification. It was clarified that M/s. Kodungallur CPC is already having an existing building and only drying shed chamber is proposed as cost of building; whereas M/s Kera Suraksha Federation of CPS does not have any building. Therefore cost of the building was the major reason for considerable difference in the project costs of these two projects of modern copra dryer.

After discussion, PAC approved the project with an eligible subsidy of Rs.5.75 lakh.

21. Setting up of a Ball Copra Making Unit- Shri Bonthu Srinivasa Rao S/o Shri Satyanarayana, Thotlapalem, Peruru Vill +Post, Amalapuram Mandal, EG Dist, Andhra Pradesh.

The objective of the project is setting up of a ball copra making unit to process 15.00 lakh coconuts per year for making ball copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.In lakh)		
Land	20.29	-	-
Platform Dryer	51.70	51.70	12.92
TOTAL	71.99	51.70	12.92

PAC approved the project with an eligible subsidy of Rs.12.92 lakh.

22. Setting up of a Ball Copra Making Unit – Shri Bandi Satyanarayana S/o Shri Subba Rao, Pedamamidipalli Village, Digamarru- Rajolu Highway Rd, Nr. Primary Public School, Palakol Mandal, W.G. Dist, Andhra Pradesh

The objective of the project is setting up of a ball copra making unit to process 5.00 lakh coconuts per year for making ball copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs.in lakh)		
Land	Own	-	-
Platform Dryer	22.92	22.92	5.73
TOTAL	22.92	22.92	5.73

PAC approved the project with an eligible subsidy of Rs.5.73 lakh.

23. A Market Study on Consumer Perception and Marketability of Packed Coconut Water in the State of Karnataka - M/s Christ University, Bengaluru..

The objective of the project is to identify if demographic factors / psychological factors are directly related to the buying behaviour of packed coconut water.

Duration of the study - One year.

Sl. No.	Activities Proposed	Project cost (Rs.In lakh)	
1.	Salaries:	3.80	
	Principal Investigator		2.00
	Research Associate for one year @Rs.15,000 per month.		1.80
2.	Travel expenses	1.20	
	Travel to out station		0.50
	Local conveyance at out station		0.25
	Accommodation & Food		0.25
	Travel local		0.20
3.	Data processing	1.50	
	Data collection		1.00
	Data Analysis		0.50
4	Printing / Communication etc.	0.35	
	Report printing		0.25

	Stationery	0.10	
The	5	Books, Journals, other Academic materials	0.75
	6	Equipment - Computer & Printer	0.50
	7	Contingency expenses	0.30
	8	Overhead - Service charges to University @30%	3.60
		Total	12.00

PAC

discussed on the project and decided that one year duration for such projects is very high and suggested that 3 months for data collection and 3 months for other works including submission of final report altogether 6 months could be sufficient. The overhead charges should be limited to 10% of the project cost. As per TMOC norms 50% of the project cost is to be shared by the investigating organization. Questionnaire for the study may be finalized in consultation with CDB.

PAC suggested that PI may revise the project for 6 months duration restricting overhead charges to 10% of the project cost, showing share of the Board and share of Institute separately, limiting the share of Board to Rs.4.00 lakh.

PAC authorized the Chairman to approve the revised project.

IV. Other Items

1. Project Proposal “Studies on the use of Virgin Coconut oil & Coconut water in Alzheimer’s disease (AD)” - Metabolic Disorders Research Centre (MDRC), Jagathy, Trivandrum, Kerala at a total cost of Rs.70.00 lakh:

As per decision of 45th PAC, Dr. Nevin K.G., Assistant Professor, School of Biosciences, M.G. University and Smt. Resmi D.S, Assistant Director, CDB visited MDRC on 12.9.2015 to assess the capability of the institute for conducting such research. It is reported that the centre is functioning in a rented house of about 2500 sq feet in a residential area with no adequate space for conducting animal experiments. The instruments available with the institute were more than 10 years old and were non-reliable. The instruments were also kept too close and there was no enough working space.

PAC discussed the project in detail. Dr D. M. Vasudevan, PAC expert member opined that MDRC is not in a position to take up the proposed research with the existing equipments in the present building. Due to non-availability of sufficient infrastructural facilities for carrying out such research work, PAC decided not to approve the project .

2. Establishment of a Coconut point by M/s Kalpaka Coconut Producer Federation, Ernakulam, Kerala – Ratification of the expenditure incurred:

M/s Kalpaka Coconut Producer Federation has set up a Coconut point at Chemberaky Town Junction at a total cost of Rs.1,39,523/- for the sale of various coconut products. The coconut point was inspected by Smt. Leenamol M.A, Market Promotion Officer and Shri. K.S Sebastian, Assistant Director, Marketing on 26.05.2015. It is reported that the infrastructure works was already done and outlet has started promoting neera and its value added products. An eligible subsidy of 50% Rs.69,762/- was reimbursed to the Federation under Market Promotion.

After discussion PAC ratified the expenditure of Rs.69,762/- reimbursed to M/s Kalpaka Coconut Producer Federation, Ernakulam, Kerala for setting up of a Coconut point at Chemberaky Town Junction, Aluva – Perumbavur Highway in Ernakulam Dist., Kerala.

3. Setting up of a Coconut point by M/s Changanacherry Regional Federation of Coconut Producers Society, Kottayam, Kerala – Ratification of the expenditure incurred:

M/s Changanacherry Regional Federation of Coconut Producers Society has set up a Coconut point at Nedumkunam at a total cost of Rs.3,72,551.00 for the sale of various coconut products. The coconut point was inspected by Shri. K.S Sebastian, Assistant Director, Marketing on 19.06.2015. It is reported that the arrangements made by the CPF in kiosks were excellent. The supporting documents submitted by the CPF in proof of expenditure incurred for the outlet have been scrutinized and found to be in order. An eligible subsidy of 50% limited to Rs.1.50 lakh was reimbursed to the Federation under Market Promotion.

After discussion PAC ratified the expenditure of Rs.1.50 lakh reimbursed to M/s Changanacherry Regional Federation of Coconut Producers Society, Kottayam, Kerala for setting up of a Coconut point at Nedumkunam, Changanachery, Kottayam, Kerala.

4. Setting up of a Coconut point by M/s Onchiyam Coconut Producers Federation, Vadakara, Kozhikode Dist, Kerala – Ratification of the expenditure incurred:

M/s Onchiyam Coconut Producers Federation, Vadakara has set up a Coconut point at Orkkatteri Town at a total cost of Rs.3,45,650/- for the sale of various coconut products. The coconut point was inspected by ms. Mridula K, Technical Officer on 01.07.2015. It is reported tht the coconut point is functioning properly and the CPF is getting good sale from raw neera nd its by products. Hence an eligible subsidy of 50% limited to Rs.1.50 lakh was reimbursed to the Federation under Market Promotion.

After discussion PAC ratified the expenditure of Rs.1.50 lakh reimbursed to M/s Onchiyam Coconut Producers Federation, Vadakara, Kerala for setting up of a Coconut point at Orkkatteri Town, Onchiyam in Kozhikode Dist, Kerala.

5. Setting up of a Coconut point by M/s Mekkadampu Coconut Producers Society, Muvattupuzha, Ernakulam Dist, Kerala – Ratification of the expenditure incurred:

M/s Mekkadampu Coconut Producers Society has set up a Coconut point at Mekkadampu at a total cost of Rs.2,67,307/- for the sale of various coconut products. The coconut point was inspected by the Smt. Leenamol M.A, Market Promotion Office on 19.09.2015. It is reported that the CPS has already created the infrastructure, started promoting neera and other coconut products and also submitted bills and vouchers for expenditure incurred. Hence an eligible subsidy of 50% of Rs.1,33,654/- was reimbursed to the Society under Market Promotion.

After discussion PAC ratified the expenditure of Rs.1,33,654/- reimbursed to M/s Mekkadampu Coconut Producers Society, Muvattupuzha, Ernakulam Dist, Kerala for setting up of a Coconut point at Mekkadampu, Muvattupuzha, Ernakulam Dist., Kerala.

6. Setting up of a Coconut point by M/s Kumarakam Federation of Coconut Producers Society, Kumarakam, Kottayam Dist, Kerala – Ratification of the expenditure incurred:

M/s Kumarakam Federation of Coconut Producers Society has set up a Coconut point at Kumarakam at a total cost of Rs.3,01,750/- for the sale of various coconut products. The coconut point was inspected by Shri.Sebastian K.S, Assistant Director, marketing on 15.10.2015. It is reported that the the cononut point is functioning very well and the supporting documents submitted by the CPF in proof id the expenditure incurred are found to be in order. Hence an eligible subsidy of 50% of Rs.1,47,625/- was reimbursed to the Federation under Market Promotion.

After discussion PAC ratified the expenditure of Rs.1,47,625/- reimbursed to M/s Kumarakam Federation of Coconut Producers Society, Kumarakam, Kottayam Dist, Kerala for setting up of a Coconut point at Thottichira Building, Puthen Road, Kumarakam, Kottayam Dist, Kerala.

7. Setting up of a Coconut Point by M/s Ramapuram Coconut Producers Federation, Kottayam Dist, Kerala – Ratification of the expenditure incurred:

M/s Ramapuram Coconut Producers Federation has set up a Coconut point at Ramapuram at a total cost of Rs.3,67,366/- for the sale of various coconut products. The coconut point was inspected by Shri. K.S Sebastian, Assistant Director, Marketing on 31.10.2015 It is reported that the outlet is functioning properly and the supporting documents submitted by the CPF in proof of the expenditure incurred for the outlet was found to be in order. Hence an eligible subsidy of 50% limited to Rs.1.50 lakh was reimbursed to the Federation under Market Promotion.

After discussion PAC ratified the expenditure of Rs.1,50,000/- reimbursed to M/s Ramapuram Coconut Producers Federation, Kottayam Dist, Kerala for setting up of a Coconut point at Ramapuram, Kottayam Dist, Kerala.

8. Setting up of a Coconut Point by M/s Kaipuzha Coconut Producers Company Ltd, Kollam Dist, Kerala – Ratification of the expenditure incurred:

M/s Kaipuzha Coconut Producers Company Ltd (KCPCL) has set up a Coconut point at Karugapally at a total cost of Rs.1,93,000/- for the sale of various coconut products. The coconut point was inspected by the MRs.Resmi D.S, Assistant Director, tMOC and reported that there is great demand for neera in these outlets, Hence an eligible subsidy of 50% of Rs.96,500/- was reimbursed to M/s KCPCL, Kollam under Market Promotion.

After discussion PAC ratified the expenditure of Rs.96,500/- reimbursed to M/s Kaipuzha Coconut Producers Company Ltd, Kollam Dist, Kerala for setting up of a Coconut point at Karugapally, Thalavabhagam- Thevalakkara Road, Kollam Dist, Kerala.

9. Proposal for re-imburement of Expenditure for participation in International Exhibition:

M/s Integral Coconut Products, Kozhikode Dist, Kerala participated in 9th Asian International Expo 2015 at Dhaka, Bangladesh from 10th to 14th June, 2015 as per the invitation of the Board for market promotion of coconut products. They have submitted a claim for a total expenditure of Rs.38,066/- towards their travel and hotel accommodation charges. As per the norms, manufacturer is eligible for 50% reimbursement of travel and hotel accommodation charges.

After discussion the PAC approved an amount of Rs.19,033/- for reimbursement to M/s Integral Coconut Products, Kozhikode Dist, Kerala towards the 50% expenses for travel and hotel accommodation charges incurred by the party for participation in the 9th Asian International Expo 2015 at Dhaka, Bangladesh from 10th to 14th June, 2015.

10. Establishment of 70 Integrated Coconut Points by M/s Palakkad Coconut Producer Company Ltd, Muthalamada, Palakkad, Kerala:

The 45th PAC held on 22nd May 2015 approved the proposal of M/s. Palakkad Coconut Producer Company Ltd (PCPCL), Muthalamada, Palakkad for setting up of 70 coconut points on case to case basis as and when the coconut points are established and bills and vouchers submitted by the promoter.

Accordingly, M/s PCPCL established 19 Nos. of coconut points with a total expenditure of Rs.56.79 lakh. Smt. Resmi D.S, Assistant Director, TMOC inspected the coconut points on 18.8.15 and 9.9.15. It is reported that in all the stalls, fabrication and interior work was done and are

functioning. Fresh neera and other value added products were selling in the points, Hence an eligible subsidy of Rs.26,05,950/- was reimbursed to M/s. PCPCL.

In the proposal approved by 45th PAC the items of tablet and thermal printers were not included. Now a proposal has been submitted for the purchase of tablet and thermal printers as these are essential for the proper accounting of the sales in coconut points. ISC recommended for placing before PAC with details. Accordingly the proposal was placed before 46th PAC for reimbursement of Rs.2,29,214/- as details below:

Details of Coconut Points established by M/s PCPCL, Muthalamada

S. No.	Location of the coconut Point	Total Project cost (RS)	Exp incurred (RS)	Eligible subsidy Rs)	Subsidy Sanctioned (Rs) 50%	Balance subsidy to be released (Rs)
1	Kadambazhi-ppuram	2,94,918.00	2,94,918.00	147459.00	1,35,259.00	12200.00
2	Kollengode	2,99,436.00	2,99,436.00	149718.00	1,37,518.00	12200.00
3	Koduvayur	2,99,538.00	2,99,538.00	149769.00	1,37,569.00	12200.00
4	Kongadu	2,94,370.00	2,94,370.00	147185.00	1,34,738.00	12447.00
5	Cherpulassery	2,99,461.00	2,99,461.00	149730.50	1,37,530.50	12200.00
6	Edathanattukara	2,98,126.00	2,98,126.00	149063.00	1,36,863.00	12200.00
7	Nenmara	2,93,618.00	2,93,618.00	146809.00	1,34,609.00	12200.00
8	Thaneer panthal	2,94,251.00	2,94,251.00	147125.50	1,34,678.00	12447.50
9	Chirakkalppady	2,99,541.00	2,99,541.00	149770.50	1,37,570.50	12200.00
10	Vadakkanchery	2,99,011.00	2,99,011.00	149505.50	1,37,305.50	12200.00
11	Karinkulam	3,01,335.00	3,01,335.00	150000.00	1,38,467.50	11532.50
12	Mercy College	3,00,733.00	3,00,733.00	150000.00	1,37,919.00	12081.00
13	Mankada	3,00,196.00	3,00,196.00	150000.00	1,37,650.50	12349.50
14	Alathur	2,99,431.00	2,99,431.00	149715.50	1,37,515.50	12200.00
15	Chulliyarmedu	2,99,508.00	2,99,508.00	149754.00	1,37,554.00	12200.00
16	Mannarkkad	2,99,962.00	2,99,962.00	149981.00	1,37,781.00	12200.00
17	Pallassana	2,99,157.00	2,99,157.00	149578.50	1,37,131.00	12447.50
18	Malampuzha	3,04,763.00	3,04,763.00	150000.00	1,39,934.00	10066.00
19	Puthussery	3,01,609.00	3,01,609.00	150000.00	1,38,357.00	11643.00
	Total	56,78,964.00	56,78,964.00	2835164.00	26,05,950.00	2,29,214.00

After discussions PAC approved an amount of Rs.2,29,214/- for reimbursement to M/s Palakkad Coconut Producer Company Ltd (PCPCL), Muthalamada, Palakkad, Kerala towards the expenditure incurred for the purchase of tablets and thermal printer for 19 Nos. of coconut points established by M/s PCPCL at different locations in Kerala as mentioned above.

Chief Coconut Development Officer

List of Participants

A	Project Approval Committee
1	Mr. T.K. Jose IAS Chairman, Coconut Development Board, Kochi & PAC Chairman
2	Dr. Anilkumar R. Assistant Agricultural Marketing Adviser, DMI, Kochi Representative of - Joint Secretary & Agricultural Marketing Adviser, Govt. of India, New Delhi
3	Dr. P. Vijayaraj, Scientist, CFTRI, Mysore - Representative of - Director, Central Food Technological Research Institute, (CSIR), Mysore
4	Ms. Ushamani P. AGM, NABARD, Regional Office, Thriuvananthapuram Representative of- Chief General Manager, Technical Services Department, NABARD, Mumbai.
5	Shri. G. Mathew General Manager, IOB, Regional Office, Kochi Representative of- Chief General Manager, Indian Overseas Bank, Bangalore.
6	Mr. Rajeev P. George, Chief Coconut Development Officer i/c, Coconut Development Board, Kochi & Member Secretary, PAC.
B.	Technical Experts
1	Dr. D.M. Vasudevan Principal (Retd.), AIMS, Kochi
2	Dr. M. Aravindakshan Former Chairman, CDB & Co-Ordinator, Amritha School of Environmental Studies, Coimbatore.
C.	In Attendance
1	Dr. A.K. Nandi Secretary, CDB, Kochi
2	Mr. R. Jnanadevan Deputy Director, CDB, Kochi
3	Mr. K.S. Sebastian Assistant Director (Mkg.), CDB, Kochi
4	Mr. S.S. Choyal, Assistant Director (TMOC), CDB, Kochi
5	Ms. Resmi D.S. Assistant Director(TMOC), CDB, Kochi
6	Mr. V.C. Vasanthakumar, Assistant Director (Foreign Trade) CDB, Kochi
7	Mr. P. Sabareenathan, Finance Officer, CDB, Kochi
8	Mr. G.M. Siddharameswara Swamy, Assistant Marketing Officer, CDB, Kochi
9	Mr. Sasikumar C, Technical Officer, CDB, Kochi
10	Ms. Jyothi K Nair, Processing Engineer (on Contract) CDB, Kochi
11	Ms. Geethu A. S., Processing Engineer (on Contract) CIT, Vahzakulam