

# **Proceedings of the 48<sup>th</sup> meeting of Project Approval Committee (PAC) of Technology Mission on Coconut held at Kochi on 15<sup>th</sup> June 2016**

The 48<sup>th</sup> meeting of the Project Approval Committee (PAC) on Technology Mission on Coconut (TMOC) was held in the Board Room of Coconut Development Board, Kochi on 15<sup>th</sup> June, 2016. Dr. A.K.Singh, 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 about the vast scope available for value addition in coconut sector. He also added that critical gaps should be identified and addressed through research projects in the sector so that ultimately farmers are benefited.

## **AGENDA No. 1: Confirmation of the Proceedings of 47<sup>th</sup> Project Approval Committee meeting held on 4<sup>th</sup> February 2016**

The Committee confirmed the proceedings of the 47<sup>th</sup> Project Approval Committee meeting held on 04/02/2016.

## **AGENDA No. 2: Action taken report on decisions of the 47<sup>th</sup> PAC Meeting**

The committee perused the action taken on decisions of the 47<sup>th</sup> meeting of Project Approval Committee. CCDO informed that out of 62 projects sanctioned in the last PAC, 1<sup>st</sup> installment of eligible financial assistance is released in 30 projects.

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

### **1. Development of Coconut Shell Oil Based Pharmaceuticals- Karnataka Veterinary Animal & Fisheries Sciences University, Nandinagar, Bidar, Karnataka.**

The objectives of the project are as follows:

- Extraction: To obtain bio oil from Coconut Shell by thermal pyrolysis.
- Isolation & Identification: To characterize the liquid fuel for their physical properties and chemical composition.
- Evaluation: To characterize the liquid fuel both *in vitro* and *in vivo* for their Pharmacological and Toxicological properties.
- Commercialization: To formulate shell oil based pharmaceutical drugs for commercial production.

Dr. Ravikumar P, Co-Principal Investigator presented the project. PAC discussed the project in detail. It was also informed that such studies were already taken up and literatures are available. Since CDB is focusing more on the direct product development from coconut, such project proposals cannot be funded under TMOC at this stage.

### **2. Value addition and phytochemical studies of Coconut Sap - CSIR-National Institute for Interdisciplinary Science & Technology (NIIST), Industrial Estate PO, Thiruvananthapuram.**

The objectives of the project are as follows:

- To develop value-added products from the sap of coconut viz. Spice enriched Syrup, Spread, and Spray dried/lyophilized powder of sap fortified with selected juices.
- As a follow up of the above, it is also proposed to conduct shelf stability studies of the product with respect to its physicochemical composition and microbial load.
- Organoleptic evaluation of the formulated products.
- Characterization of chemical constituents in Coconut Sap and the base syrup used for product formulation.

Dr. Reshma M.V, Principal Investigator presented the project. PAC discussed the project in detail and the committee stated that similar studies are already taken up by CDB Institute of Technology, Vazhakulam. Therefore the project cannot be considered for funding under TMOOC.

**3. Process Optimization for Minimally Processed Tender Coconut Preservation Technology- Niranthara Scientific Solutions Private Limited, 13<sup>th</sup> Main RBI Colony Main Road, Ganganagar, Bangalore, Karnataka.**

The objectives of the project are as follows:

- Process optimization for prevention of browning in de-husked tender coconuts.
- Screening inhibitors for prevention of browning in de-husked tender coconuts.
- Shelf life improvement studies on de-husked tender coconuts.
- To study the enzyme variations from different geographical locations in partial de-husked tender coconuts.
- To study the biochemical changes upon chemical treatment of de-husked tender coconuts.
- To study environmental parameters to prevent browning and microbial contamination of de-husked tender coconuts.
- Treating de-husked tender coconuts by food grade chemicals.
- To evaluate the compatibility of food grade chemicals in anti-browning process.
- To study the residual effects of anti-browning agents.

Dr. Veeranna S, Chief Research Officer, Niranthara Scientific Solutions Private Limited presented the project. PAC discussed the project in detail. It was observed that objectives proposed were too many and could not be completed in 2 years time period. PAC also commented that there was no clarity regarding the technical programme. Hence PAC decided that project need not be considered for funding under TMOOC.

**4. Coconut Wood Demonstration and Training Centre for Value Addition- Kerala Furniture Consortium Pvt Ltd (KFCPL), Kodanad P.O, Perumbavoor, Ernakulam, Kerala**

The objectives of the project are as follows:

- Wood Inventory
- Machine demonstration and job work training
- On- site primary process training
- Seasoning and Preservation technology
- Products/ Furniture manufacturing

Deputy Director, TMOOC, CDB, Kochi presented the project. It was informed that original proposal was presented in 47<sup>th</sup> PAC and it was requested to revise the project giving clearly defined deliverables. PAC discussed the project in detail and it was noted that the revised proposal did not contain the details of machineries and clearly defined deliverables as sought by 47<sup>th</sup> PAC. As the deliverables were not

specific and similar project was taken up by Kerala Agricultural University, PAC decided that project need not be funded under TMOC.

**5. Studies on the Therapeutic Effects of Coconut water for development of capsule for hypertensive, hyperglycemic and hypercholesterolemic subjects- Coconut Research and Development Centre, Pattom, Thiruvananthapuram.**

The objectives of the project are as follows:

- Collection of materials
- Ethical committee approval (already cleared)
- Selection of human subjects- 300 Nos
- Experimental protocol- in 4 stages
- Bio chemical investigations
- Statistical investigations

Dr. Rajamohan, Principal Investigator presented the project. PAC discussed the project in detail. It was suggested that such clinical studies which involves human subjects should be taken up in association with Medical Colleges / Medical Institutions. Hence PAC decided not to support the project under TMOC.

**6. Studies on the Therapeutic Effects of Coconut Inflorescence Sap (Neera) in experimentally induced cataract, Liver and Kidney damage- Kerala University, Kariavattom, Thiruvananthapuram.**

The objectives of the project are

- To evaluate the hepatoprotective, nephroprotective and anticataractogenic effects of Neera in experimental animals.

Dr. Annie Abraham, Principal Investigator presented the project. PAC discussed the project in detail and observed that the proposed objectives could not be completed in 2 year time limit. Moreover PAC suggested that such projects which are not directly related to development of value added coconut products need not be supported at this stage.

**7. Improving Coconut Production in Kerala using soil data through Remote Sensing and GIS Techniques- Amritha Viswavidhyapeetham University, Amritha Nagar PO, Ettimadai, Coimbatore.**

The objectives of the project are as follows:

- To identify and map coconut growing areas of Kerala using Remote sensing and GIS techniques.
- To create soil database using GIS for coconut regions identified.
- To recommend production improvement measures based on soil database.

Deputy Director, TMOC, CDB, Kochi presented the project. PAC discussed the project in detail. It is observed that the results in 1<sup>st</sup> phase of the project had less practical utility in field at this stage and hence PAC decided that 2<sup>nd</sup> phase need not be considered for funding under TMOC.

**8. Detection and estimation of arsenic and lead in coconut water- Dept. of Analytical Toxicology, Poison Control Centre, Amrita Institute of Medical Sciences & Research Centre, Kochi, Kerala.**

The objectives of the project are as follows:

- To detect the presence of heavy metals, Arsenic and Lead and to quantitatively assess their levels in tender and mature coconut water of coconuts sold in Ernakulam district of Kerala.
- To detect the inter-zonal variations within Ernakulam district in the levels of the heavy metals in tender and mature coconut water.
- To detect the variations in levels of the metals between tender and mature coconut water.

Dr. Anup Sasidharan, Co-Principal Investigator presented the project. PAC commented that the proposal submitted did not contain the bio data of the principal investigator. Chairman stated that coconut is a perennial crop which is grown along with other crops and the heavy metal detection in coconut water alone does not have any relevance. PAC decided that the project need not be considered under TMOC.

### ***Desiccated Coconut Manufacturing Units***

#### **9. Setting up of a Desiccated Coconut Powder Unit- M/s Sri Lakshmi Ranganath Coconut Industries, Gedlehalli, Halkurike Road Tiptur Taluk, Tumkur Dt, Karnataka.**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit to process 30,000 coconuts per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs in lakhs)</b>		
Land	Own	-	-
Plant & Equipments	52.70	49.75	12.44
Building & Civil works	55.00	38.08	9.52
Electrical installation	4.00	2.38	0.59
DG Set	8.15	5.00	1.25
Preliminary & Pre op. expenses	0.30	0.30	0.07
Deposits & Contingencies	2.57	-	-
Working Capital margin	8.31	-	-
<b>TOTAL</b>	<b>131.03</b>	<b>95.51</b>	<b>23.87</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 23.87 lakh.

#### **10. Setting up of a Desiccated Coconut Powder Manufacturing Unit- M/s Gangadhareswara Desiccated Coconut Industries, Guddenahalli Village, Kasaba Hobali, Anekere Grama Panchayath, Turuvekere Thumkur Dist, Karnataka.**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit to process 15,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakhs)		
Land	Own	-	-
Plant & Equipments	25.66	19.23	4.81
Building & Civil works	76.00	12.82	3.20
Others	2.00	-	-
Pre-operative Expenses	0.60	0.32	0.08
Deposit	0.40	-	-
Working Capital margin	4.50	-	-
<b>TOTAL</b>	<b>109.16</b>	<b>32.37</b>	<b>8.09</b>

After

detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 8.09 lakh subject to the condition that promoter should submit undertaking on stamp paper regarding maintenance of hygienic standard as suggested by the ISC.

**11. Setting up of a Desiccated Coconut Powder Manufacturing Unit- M/s Medapallil Foods Pvt Ltd, Reg. Office – CP 12/258 F, Chakkittapara Post, Via – Kayanna, Kozhikode Dist, Kerala.**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit to process 15,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakhs)		
Land	Lease	-	-
Building & Civil works	32.00	28.17	7.04
Plant & Machinery	67.70	64.16	16.04
ETP	7.50	7.50	1.88
Electrification	8.02	3.20	0.80
Generator	7.50	5.00	1.25
Furniture & Office equipments	2.04	-	-
Preliminary & Pre op. expenses	2.00	1.08	0.27
Working Capital margin	13.24	-	-
<b>TOTAL</b>	<b>140.00</b>	<b>109.11</b>	<b>27.28</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 27.28 lakh.

**12. Setting up of a Desiccated Coconut Powder Manufacturing Unit - M/s Sri Jeyam Foods, SF No. 189/1, Near Power House, Ariyakulandi Pudur, Ariyagoundampatty Post, Namagiripettai Via Rasipuram Tk, Namakkal Dist, Tamilnadu.**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit to process 25,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land	Own	-	-
Building & Civil works	34.00	34.00	8.50
ETP	3.00	3.00	0.75
Plant & Machinery	87.11	86.20	21.55
Electrification	7.90	4.31	1.08
Furniture & Office Equipments	1.65	-	-
Working Capital margin	8.34	-	-
<b>TOTAL</b>	<b>142.00</b>	<b>127.51</b>	<b>31.88</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 31.88 lakh.

**13. Expansion, Modernisation and Automation of the Existing Desiccated Coconut Manufacturing Unit - M/s Amrutha Coconut Products Madavana, Kodungallur, Thrissur Dist, Kerala.**

The objective of the project is expansion, modernization and automation of the desiccated coconut powder manufacturing unit to process 15000 Coconuts/day from the existing capacity of 5000 coconuts/day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakhs)</b>		
Land	Own	-	-
Building & Civil works (Renovation and New Construction)	29.00	21.78	5.44
Plant & Equipments	31.50	31.17	7.79
Lab. Equipments	1.50	1.50	0.38
<b>TOTAL</b>	<b>62.00</b>	<b>54.45</b>	<b>13.61</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 13.61 lakh.

***Virgin Coconut Oil Manufacturing Units***

**14. Setting up of Virgin Coconut Oil Manufacturing Unit- M/s. Aadrics Agro Products, Room No.17/799, IInd Floor, Opp. Canara Bank, Pattambi Road, Cherpulassery – 676 503, Palakkad Dist, Kerala.**

The objective of the project is setting up of a VCO unit to process 5,000 coconuts per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakhs)</b>		
Land	Own	-	-
Building & Civil works	52.00	24.40	6.10
Plant & Equipments	40.00	39.91	9.98
ETP	3.00	0.97	0.24
Electrification	5.60	2.00	0.50
DG Set	5.50	5.00	1.25
Technical know-how	0.56	0.56	0.14
Furniture & Office eqpt.	1.12	-	-
Preliminary & Pre op. expenses	2.00	0.73	0.18
Working Capital margin	4.22	-	-
<b>TOTAL</b>	<b>114.00</b>	<b>73.57</b>	<b>18.39</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs.18.39 lakh.

**15. Setting up of Virgin Coconut Oil Manufacturing Unit - M/s Aaral Exports, SF No. 341/B, Suguna Foods Road, Anthiyur Village, Udumalpet, Tirupur Dist, Tamilnadu.**

The objective of the project is setting up of a VCO unit to process 10,000 coconuts per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakh)</b>		
Land	Lease	-	-
Building & Civil works (Renovation & Extension)	18.00	18.00	4.50
Plant & Equipments	44.22	43.28	10.82
ETP	3.44	3.44	0.86
Electrification	4.42	2.16	0.54
Generator	3.90	3.90	0.97
Technical know-how	0.60	0.60	0.15
Preliminary & Pre op. expenses	2.15	0.71	0.18

Working Capital margin	11.34	-	-
<b>TOTAL</b>	<b>88.07</b>	<b>72.09</b>	<b>18.02</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 18.02 lakh.

**16. Setting up of Virgin Coconut Oil Manufacturing Unit- M/s Sri Menakadevi Agro Products, SF.No.177/2A11, Opposite Sri Krishna Gardens, Nalluthukuli Post, Pollachi, Coimbatore Dist, Tamil Nadu.**

The objective of the project is setting up of a VCO unit to process 20,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakhs)</b>			
Land	Own	-	-
Building & Civil works	44.00	29.72	7.43
Effluent treatment plant	6.49	6.49	1.62
Plant & Machinery	73.86	71.50	17.87
Electrification	6.43	3.57	0.89
Generator	7.50	5.00	1.25
Technical know-how	0.60	0.60	0.15
Preliminary & Pre op. expenses	2.16	1.16	0.29
Working Capital margin	15.96	-	-
<b>TOTAL</b>	<b>157.00</b>	<b>118.04</b>	<b>29.50</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 29.50 lakh.

***Coconut Shell Charcoal Manufacturing Unit***

**17. Setting Up of a Coconut Shell Charcoal Unit - M/s Mahalakshmi Charcoal, A/P- Shahunagar (parite), Behind Mouli Cloth, Tal - Karveer, District- Kolhapur, Maharashtra.**

The objective of the project is setting up of a coconut shell charcoal unit to produce one ton charcoal per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakhs)</b>			
Land	1.08	-	-
Plant & Equipments	10.45	9.96	2.49
Building & Civil	7.46	7.46	1.87



works			
Electrical installation	2.76	0.50	0.12
Preliminary & Pre op. expenses	1.16	0.20	0.05
Furniture	0.18	-	-
Wall Fencing	0.28	-	-
Working Capital margin	10.80	-	-
<b>TOTAL</b>	<b>34.17</b>	<b>18.12</b>	<b>4.53</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 4.53 lakh.

**18. Setting Up of a Coconut Shell Charcoal Manufacturing Unit- M/s Aspire Renoil Associates  
Company 4/123 A, Muthugounder Thottam, Pappampatti Road Peedampalli, Coimbatore,  
Tamilnadu.**

The objective of the project is setting up of a coconut shell charcoal unit, to process 30 tons shell per day to produce 10 MT shell charcoal per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakhs)		
Land	Leased	-	-
Building & Civil works	12.00	12.00	3.00
Plant & Equipments	58.00	57.72	14.43
Working Capital margin	5.00	-	-
<b>TOTAL</b>	<b>75.00</b>	<b>69.72</b>	<b>17.43</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 17.43 lakh.

***Copra Dryer Units***

**19. Setting up of a Copra Dryer Unit - M/s Keramithra Federation of Coconut Producers Society, Maruthonkara, Passukadavu PO, Kozhikode Dist, Kerala.**

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

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs in lakhs)</b>		
Land	Own	-	-
Building	12.00	12.00	3.00
Fixed assets	10.80	7.88	1.97
Transporting expense	0.10	0.08	0.02
Preliminary & Pre op. expenses	0.10	0.10	0.025
Working capital	02.00	-	-
<b>TOTAL</b>	<b>25.00</b>	<b>20.06</b>	<b>5.015</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 5.015 lakh.

**20. Setting up of a Copra Dryer Unit- M/s Perambra Federation of Coconut Producer Societies, Perambra P.O, Kozhikode, Kerala.**

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

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs in lakhs)</b>		
Land	Leased	-	-
Plant & Machinery	13.00	13.00	3.25
Building	12.00	9.85	2.46
Preliminary & Pre op. expenses	1.00	0.23	0.057
Working Capital margin	4.00	-	-
<b>TOTAL</b>	<b>30.00</b>	<b>23.08</b>	<b>5.767</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 5.767 lakh.

***Coconut Based Food Products***

**21. Setting up of a Coconut Based Food Products Unit - M/s Natural Foods, Shri Babu KV Proprietor, Puthusseril House, Udyogamandal Post, Kalamassery Via, Ernakulam Dist, Kerala.**

The objective of the project is setting up of a coconut based food products unit to produce coconut sweet balls and coconut chutney powder. The capacity of the unit is 600 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakh)		
Land	Own	-	-
Building	Lease	-	-
Plant & Equipments	11.00	11.00	2.75
Electrification	0.26	0.26	0.06
Generator	0.74	0.74	0.19
Working Capital	0.86	-	-
<b>TOTAL</b>	<b>12.86</b>	<b>12.00</b>	<b>3.00</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs.3.00 lakh.

## ***Supplementary Agenda***

### ***Ball Copra Making Units***

**22. Setting up of a Ball Copra Making Unit - Mr. Borsu VKD Moola Swamy, S/o Shri Suryanarayana, D. No. 3-175, Pasarlapudi Lanka Vill & Post, Mamidikuduru Mandal, EG Dist, Andhra Pradesh.**

The objective of the project is setting up of a ball copra making unit to process 10 lakh coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakhs)		
Land	11.82	-	-
Platform Dryer	25.00	25.00	6.25
<b>TOTAL</b>	<b>36.82</b>	<b>25.00</b>	<b>6.25</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs.6.25 lakh.

**23. Setting up of a Ball Copra Making Unit - Smt. Kamisetti Kanaka Durga, W/o Rambabu, Appanapalli- 533247, Mamidikuduru Mandal, East Godavari Dist, Andhra Pradesh.**

The objective of the project is setting up of a ball copra making unit to process 8 lakh coconuts per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
<b>(Rs. in lakhs)</b>			
Land & Land Dev. (Specify)	Own	-	-
Platform Dryer	20.60	20.00	5.00
Preliminary & Pre op. expenses	3.00	-	-
Working Capital margin	9.00	-	-
<b>TOTAL</b>	<b>32.60</b>	<b>20.00</b>	<b>5.00</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 5.00 lakh.

**24. Setting up of a Ball Copra Making Unit - Sri Lingolu Satyanarayana Murthy S/o Sri L. Guru Murthy, RS No. 357/13, Allavaram Panahcayth, Allavaram Mandal, EG Dist, Andhra Pradesh.**

The objective of the project is setting up of a ball copra making unit to process 6 lakh coconuts per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
<b>(Rs. in lakhs)</b>			
Land	Own	-	-
Platform Dryer	29.00	15.00	3.75
<b>TOTAL</b>	<b>29.00</b>	<b>15.00</b>	<b>3.75</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 3.75 lakh.

**25. Setting up of a Ball Copra Making Unit - Shri Daivala Palamba Rao, S/o Shri Venkata Rao, Pedapatnam Lanka Panchayat, Mamidikuduru Mandal, Tatipaka, Razole Tk, E.G. Dist, Andhra Pradesh.**

The objective of the project is setting up of a Ball Copra making unit to process 2 lakh coconuts per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
<b>(Rs. in lakhs)</b>			
Land	Own	-	-
Platform Dryer	6.00	5.00	1.25
Pre op. Expenses	-	-	-
<b>TOTAL</b>	<b>6.00</b>	<b>5.00</b>	<b>1.25</b>

After detailed discussion, PAC approved the project with a maximum eligible subsidy of Rs. 1.25 lakh.

## ***Pilot Testing of Flavoured Coconut Milk***

### **26. Setting up of a Pilot Testing Plant for Flavoured Coconut Juice- CDB Institute of Technology (CIT), South Vazhakulam, Aluva, Ernakulam Dist, Kerala**

The objective of the project proposal is to set up a pilot testing plant for flavoured coconut milk/juice with a minimum capacity of 100 coconuts per day to scale up the production of the product developed by CIT, Vazhakulam at the lab scale.

<b>Sl. No</b>	<b>Particulars</b>	<b>Estimated Cost (Rs. in lakhs)</b>
1	Non-Recurring Expenditure	
	(a) Pre-processing machineries	32.83
	(b) Sterilisation and Packing Machineries Retort Method (Autoclave and Canning)	14.00
2.	Recurring Expenditure	5.37
	<b>Total Project Cost</b>	<b>52.20</b>

After detailed discussion, PAC approved the project with a total subsidy of Rs. 52.20 lakhs.

### ***Other Items***

**1: Revision of pay of JRF and SRF in the project and revision of project cost- TMOC project - “Standardization of *in vitro* culture techniques through somatic embryogenesis for propagation of elite coconut cultivars” sanctioned to TNAU.**

PAC approved the proposal for sanctioning the additional amount of Rs. 1.56 lakhs towards the salary of project staff and enhanced project cost to Rs. 37.42 lakhs.

**2: Permission for sanctioning fund under subcomponent “Technical support and Emergent requirements” TMOC project-“Training and Technology Demonstration Project for Making Value Added Products from Coconut Wood” sanctioned to Kerala Agricultural University.**

After detailed discussion, PAC approved the inclusion of additional clause in the MoU between KAU and Kodungallur CPC as suggested by ISC and PAC also approved the proposal for sanctioning the funds under the subcomponent “Technical Support and Emergent Requirement’ of TMOC.

### 3: Ratification of expenditure incurred for Coconut Points established under “Market Promotion” of TMOC.

The details of 47 coconut points set up by the Farmer Producer Organizations (FPOs) for the sale of various coconut products such as coconut oil, neera, VCO etc in the states of Kerala (42 nos), Tamilnadu (4 nos) and Karnataka (1 no) is as follows:

SI. No.	Name of the Promoter / FPO	Location of Coconut Point	District	No. of Coconut Points	Expenditure Incurred (Rs.)	Subsidy Amount Released (Rs.) 50%
	<b>Kerala</b>					
1	M/s Kavalangadu Coconut Producers Society, Mangattu House, Nellimattam, Ernakulam, Kerala	Mangattupady	Ernakulam	1	104606	52303
2	M/s Changanassery Regional Federation of Coconut Producers Societies, Vadakkummuriyil, Nedumanni (PO), Karukachal, Kottayam, Kerala	Karukachal	Kottayam	4	300077	147788
3	M/s Nalikera Ulpadaka Federation Njeezhoor, Meyathuparambil, Njeezhoor (PO), Kottayam, Kerala	Njeezhur Town			317067	144778
4	M/s Federation Of Coconut Producers Societies Kadanad, Mattathilanikkal, Mattathipara PO, Kottayam, Kerala	Neeloor			303550	146775
		Kodumpidi			274500	129750
5	M/s Kaipuzha Coconut Producer Company Limited, Kanjiravilayil House Padinjattakkara P.O., Thevalakkara, Kollam, Kerala	Sasthamcotta	Kollam	2	135690	67845
		Neendakara			170690	85345

6	M/s Palakkad Coconut Producer Company Ltd, Mutthalamada, Palakkad, kerala	Vadavannur, Kannanur, Chittur,Sbt Jn., Chittur Anicode, Bigbazar, Palakkad Velamthavalam, Kanjikode, Kottayi	Palakkad	8	3062975	1199638
7	M/s Muthukulam Panchayath Federation of Coconut Producer's Societies, Muthukulam South PO, Alappuzha, Kerala	Muthukulam Town	Alappuzha	4	136242	68121
8	M/s Keragramam Federation of Coconut Producers Societies, Erezha Thekk, Chettikulangara PO, Mavelikara , Alappuzha, Kerala	Olakettiampalam			115550	57775
9	M/s Onattukara Coconut Producer Company Limited, Kattanam, Pallickal P.O, Alappuzha, Kerala	Kattanam			217197	123598.5
10	M/s Venmony Grama Panchayath Federation of Coconut Producers Societies, Poonthala PO, Alappuzha, Kerala	Kaliyathara Junction			158511	79255.5
11	M/s Kunnumal Nalikera Ulpadaka Federation, Thakkattil (PO), Vadakara, Kozhikode, kerala	Kakkattil Town			199600	99800
12	M/s Kozhikode Coconut Producer Company, Chairman, Samantha, Kannankara P.O, Chelannur, Kozhikode, kerala	Kummulliyil	250135	125068		

13	M/s Patterpalam Coconut Producers Federation, Edakara (PO), Chellannur (via), Kozhikode, kerala	Patterpalam Town	Kozhikode	21	245522	122761
14	M/s Kunnamangalam Federation of Coconut Producers Societies, Kunnamangalam (PO), Kozhikode, kerala	Palayam			296374	148188
15	M/s Memunda Federation Of Coconut Producers Society, Khatheeja Building, Meenkandi, Memunda (PO), Vadakara, Kozhikode, kerala	Vadakara			239100	120335
16	M/s Perambra Federation of Coconut Producers Society, Nallassery, Menjaniam (PO), Perambra, Kozhikode, kerala	Kallottu			241400	120701
		Aavala			214900	107450
		Pannimukku			222060	111030
		Puttampoyil			349157	123856
17	M/s Bapuji Coconut Producers Federation, Thandora House, Thandopara (PO), Kayanna (Via), Perambra, Kozhikode, kerala	Valoor			142460	71230
		Koothali			202109	79450
		Eravattoor			213728	78501
		Thandorapara			232576	84810
18	M/s Ulliyeri Federation of Coconut Producers Societies, Narath, Ulliyeri (PO), Kozhikode, kerala	Ulliyeri	230974	115488		
19	M/s Chenkottukavu Nalikeru Ulpadhaka Federation, Anima House, Melur (PO), Koyilandy, Kozhikode, kerala	Kallayikadavu	270728	135364		



20	M/s Atholi Federation of Coconut Producers Society, Meppally House, Atholi (PO), Kozhikode, kerala	Atholi	Kozhikode		320757	100291
21	M/s Chakkittappara Federation of Coconut Producers Societies, Kizhakkarakat House, Chembanode (PO), Peruvannamuzhy (Via), Kozhikode, kerala	Chakkittappara			225840	96170
22	M/s Onchiyam Federation of Coconut Producers Societies, Charutha, Onchiyam (PO), Chombala (Via), Kozhikode, kerala	Nadapuram			278402	139201
23	M/s Kaiveli Federation of Coconut Producers Societies, Nellikunnel Veedu, Thinoor (PO), Kakkattil (Via), Kozhikode, kerala	Naripatta			273862	136931
24	M/s Payambra Federation of Coconut Producers Society, Pilatharil Veedu , Payambra (PO), Kunnamangalam, Kozhikode, kerala	Vengeri			260060	130030
25	M/s Changarothu Nalikera Ulpadaka Federation, Ramapuram House, Kadiyangad (PO), Perambra(Via), Kozhikode, kerala	Palleri Town			256987	128494
26	M/s Ollukkara Block Federation Of Coconut Producers Society, Thattat House, Pattikkad PO, Thrissur, kerala	Ollukkara	Thrissur	2	121654	60827

27	M/s Valappad Federation Of Coconut Producers Societies, Panamparambil (H), Edamuttom PO, Thrssur, kerala	Edamutam			144881	72441
	<b>Karnataka</b>					
28	M/s Kalpavrutha Coconut Producer Company Ltd., Gavi Ranga Farming House, Bommanapalya Road, Hosadurga Town, Chitradurga	Hosadurga Town	Chitradurga	1	300000	150000
	<b>Tamilnadu</b>					
29	M/s Dindigul Coconut Producer Company Limited, H.O.1-16-25/H 45, Kalidasan Street, Gandhi Nagar, Batlangunda, Dindigul	Batlagundu	Dindigul		308720	150000
30	M/s Madathukulam Coconut Producers Company Limited, 5/74, Kongalakurichi, Kurichikottai P.O., Udumalpet (Tk), Tirupur Dist	Moonar Main Road	Tiruppur	4	271500	135750
		S.P. Building, No.46, Voc Street			250000	125000
31	M/s Udumalpet Coconut Producers Company Limited, No. 5, Santhosh Garden, Madathur Pirivu, Pallapalayam P.O., Udumalpet T.K., Tirupur Dist.	Santhosh Garden, Pallapalayam				301350
	<b>TOTAL</b>			<b>47</b>	<b>12,161,491.00</b>	<b>55,22,139.00</b>

After detailed discussion, PAC ratified the total expenditure of Rs. 55,22,139 /- (Rupees Fifty Five Lakhs Twenty Two Thousand One Hundred and Thirty Nine only) reimbursed to the above FPOs for setting up of 47 coconut points.

Chief Coconut Development Officer

**Annexure-I****List of Participants**

<b>A</b>	<b>Project Approval Committee</b>
1	Dr. A.K. Singh Chairman, Coconut Development Board & Chairman PAC
2	Ms. Jessy K X Joint Director of Agriculture, Govt. of Kerala, Thiruvananthapuram Representative of - Secretary (Agriculture), Government of Kerala
3	Mr. Venkatesh N Hubballi Director, Directorate of Cashew and Cocoa Development, Kera Bhavan, Kochi Representative of - Horticulture Commissioner, Dept. of Agri. Cooperation and Farmers Welfare, Govt. of India
4	Dr. V. Krishna Kumar Head, Regional Station, CPCRI, Kayamkulam Representative of - Assistant Director General (Plantation Crops), ICAR, New Delhi
5	Dr. Anil Kumar R. Asst. Agricultural Marketing Officer, O/o Assistant Agricultural Marketing Adviser, DMI, Kochi Representative of - Joint Secretary & Agricultural Marketing Adviser Govt. of India, New Delhi
6	Dr. P. Vijayaraj, Scientist, CFTRI, Mysore Representative of - Director, Central Food Technological Research Institute, (CSIR), Mysore
7	Dr. V. Rajaraman, AGM, NABARD, R O, Thriuvananthapuram Representative of - Chief General Manager, Technical Service Department, NABARD, Mumbai
8	Mr. B.A.R. Patro Chief Regional Manager, IOB, Kochi Representative of - Chief General Manager, Indian Overseas Bank, Bangalore
9	Dr. G. R. Singh, Chief Coconut Development Officer, Coconut Development Board & Member Secretary, PAC
<b>B</b>	<b>Technical Expert</b>
1	Dr. D.M. Vasudevan, Former Principal, AIMS, Kochi

<b>C</b>	<b>Officials of CDB</b>
1	Dr. A.K. Nandi Secretary, CDB, Kochi
2	Mr. R. Jnanadevan Deputy Director, CDB, Kochi
3	Mr. S.S. Choyal, Deputy Director, CDB, Kochi
4	Mr. A. Jeyapandi Deputy Director (Mkg), CDB, RO, Chennai
5	Mr. K.S. Sebastian Assistant Director (Mkg.), CDB, Kochi
6	Ms. Resmi D.S. Assistant Director, CDB, Kochi
7	Mr. V.C. Vasanthakumar, Statistical Officer, CDB, Kochi
8	Mr. P. Sabareenathan Finance Officer, CDB, Kochi
9	Mr. G.M. Siddharameswara Swamy, Assistant Marketing Officer, CDB, Kochi
10	Ms. Annie Eappen, Chemist, CIT, Vahzakulam
11	Mr. Sasikumar C, Technical Officer, CDB, Kochi
12	Ms. Jyothi K Nair, Processing Engineer (on Contract) CDB, Kochi
13	Ms. Geethu A. S, Processing Engineer (on Contract) CIT, Vahzakulam