

**Proceedings of the 50<sup>th</sup> Meeting of  
Project Approval Committee (PAC) of Technology Mission on  
Coconut held at Kochi on 4<sup>th</sup> August 2017**

The 50<sup>th</sup> meeting of the Project Approval Committee (PAC) on Technology Mission on Coconut (Tech) was held in the Board Room of Coconut Development Board, Kochi on **4<sup>th</sup> August 2017**. Dr. B.N.S. Murthy, Chairman, Coconut Development Board and Chairman PAC presided over the meeting. At the outset Chairman welcomed all the members of PAC and agenda were taken up. The list of participants is enclosed as *Annexure-I*.

**AGENDA No. 1: Confirmation of the Proceedings of 49<sup>th</sup> Project Approval Committee Meeting held on 23<sup>rd</sup> January 2017**

The Committee confirmed the proceedings of the 49<sup>th</sup> Project Approval Committee meeting held on 23.01.2017.

**AGENDA No. 2: Action Taken Report on Decisions of the 49<sup>th</sup> PAC Meeting**

The committee perused the action taken on decisions of the 49<sup>th</sup> meeting of Project Approval Committee. Deputy Director (Tech) informed that out of 35 (3 research & 32 adoption) projects sanctioned by the 49<sup>th</sup> PAC, in 28 projects action has been taken, fund released and projects are progressing. Where as in 7 projects the promoter could not avail 50% of the term loan so funds could not be released. The Promoter informed that the project work is in progress and they are in the stage of construction of building.

While reviewing the Projects approved by 49<sup>th</sup> PAC, Chairman suggested that good projects like project of IIT Roorkee needs to be given publicity now itself. Chairman instructed TMOc secretariat to obtain a concept note for publishing in the Board's Journals on the project "**Detection of Spoiled Coconut at Pre-Processing Stage by Portable Wireless Electronic Sensor**" with detail objectives and expected outcome.

**AGENDA No. 3: Approval of New Project Proposals:**

1. *Demonstration of Integrated Management Practices for Basal Stem Rot Disease and Black Headed Caterpillar in Coconut Growing Regions of Karnataka-* Horticulture Research and Extension Station, Arsikere, Karnataka.

The objectives of the project are as follows:

- Survey of Basal Stem Rot (BSR) disease incidence and Black Headed Caterpillar (BHC) infestation in major coconut growing areas of Karnataka (Hassan, Tumkur, Mysore, Chickmagalur and Shivamogaa).
- Identification of locations with higher incidence of Basal Stem Rot Disease and higher infestation of Black Headed Caterpillar.
- Demonstration of integrated management practices for Basal Stem Rot Disease and Black Headed Caterpillar in identified areas.
- Creating awareness among growers regarding pest and disease through trainings, and mass media.

Dr. Manjunath Hubballi, Assistant Professor (Plant Pathology) and Principal Investigator (PI), University of Horticulture Sciences, Horticulture Research and Extension Station, Arsikere, Karnataka presented the project.

PAC discussed the project in detail and approved the project with a total project cost of **Rs. 25.00 lakh** for a project period of 2 years. PI requested to permit two Field Assistants instead of one JRF. PAC agreed for two Field Assistants instead of one JRF with the same financial implications.

**2. Quantification of Diversity, Evaluation and Conservation of Potential Natural Enemies of Invasive Rugose Spiraling Whitefly *Aleurodicus Rugioperculatus* of Coconut- ICAR-National Bureau of Agricultural Insect Resources (ICAR-NBAIR) P.B No.2491, H.A. Farm Post, Bellary Road, Hebbal, Bengaluru – 560 024, Karnataka and Coconut Research Station (CRS), Tamil Nadu Agricultural University, Aliya Nagar, Pollachi, Tamil Nadu**

The objectives of the project are as follows:

- Standardization of viable mass production techniques for the aphelinid parasitoid, *Encarsia guadeloupae* rugose spiraling whitefly.
- Large scale field validation of *Encarsia guadeloupae* and their conversation.

Dr. K. Selvaraj, Scientist (Entomology), ICAR-NBAIR, Bangalore and Principal Investigator (PI) presented the project.

PAC discussed the project in detail and approved the project with a total project cost of **Rs 25.00 lakh** and project duration of two years.

**3. Detection System for Red Palm Weevil Infesting Coconut- ICAR- Central Plantation Crops Research Institute (CPCRI), Regional Station, Kayamkulam, Krishnapuram – 680 533, Alappuzha, Kerala (Lead Center) and M/s Resnova Technologies Pvt. Ltd, IV/40D, Marottichodu Road, Edappally Post, Kochi- 682 024, Kerala (Collaborating Center)**

The objectives of the project are as follows:

- Development of an affordable system for early detection of Red Palm Weevil.
- Laboratory simulation and field evaluation of the gadget.

Dr. A. Joseph Rajkumar, Pr. Scientist and Principal Investigator (PI), ICAR-Central Plantation Crops Research Institute (CPCRI), Regional Station, Kayamkulam, Krishnapuram, Alappuzha, Kerala presented the project.

PAC discussed the project in detail and decided that CPCRI and M/s Resnova may undergo MoU that the technology developed under the project will have a joint patenting with CDB, CPCRI and M/s Resnova. Since the concept is through CPCRI, the project shall be implemented by CPCRI. CPCRI may execute MoU with M/s Resnova as per their terms and conditions. The project was approved with a total project cost of **Rs. 45.60 lakh** for a period of two years.

**4. Development and Launching of Tetra Packed Neera in Kerala- M/s Palakkad Coconut Producers Company Ltd (PCPCL), 10/728 A, Little Tree, Urkulam, Govindapuram, (PO), Muthalamada, Palakkad- 678007 Kerala**

The objectives of the project are as follows:

- Product Development: Neera and Neera blends with Fruit juices in tetra packs.
- Evaluation of Shelf life.
- Consumer Acceptability Tests of Product.

Shri Vinod Kumar P., Chief Executive Officer and Principal Investigator (PI), Palakkad Coconut Producers Company Ltd (PCPCL) presented the project.

PAC discussed the project in detail and Chairman suggested that the PI may include two more flavours of 'passion fruit' and 'cranberry'. Further PAC discussed on the availability of infrastructure facilities with the PCPCL.

PCPCL informed that they will take up the product standardization works in facilities available with M/s Tetra pack, Pune, Maharashtra. M/s Tetra pack does not have the raw material neera for standardization. Therefore the PCPCL and Tetra pack will jointly carry out the product development and shelf life studies.

PAC further noted that the design of tetra pack cover, printing of first run, packing of first run are not the part of product development, whereas Bill boards, Dangers, Stickers etc are the part of marketing and cannot be considered under product development. In this regard, PI informed that as far as tetra pack cover and its related activities, as pointed out by PAC are concerned they are part of the project as the product developed will have its shelf life in tetra pack cover only.

After detail deliberations PAC noted that since the project is being carried out in association with M/s Tetrapack, therefore the financial assistance applicable to other nongovernmental organizations can only be considered, limiting to 75% of the project cost with a maximum ceiling of **Rs 35.00 lakh** only. PAC decided that a committee may visit the PCPCL and verify the infrastructure facilities for production, storage and transportation of neera to processing place at Tetrapack Pune and **deferred the project for next PAC.**

**5. Prevalence of Coconut Mite Problem in 8 Coconut Producing Coastal States of India (Odisha, West Bengal, Andhra Pradesh, Tamil Nadu, Karnataka, Kerala, Goa and Maharashtra) M/s R.G. Foundation, U-212, IInd Floor, Shakarpur, Near Laxmi Nagar Metro Station, New Delhi**

The objectives of the project are as follows:

- Estimate the extent of coconut mite damage on coconut farms in eight shortlisted coastal states of India.
- Assess the variability of coconut mite infestation among trees on a single farm.
- Compare the extent of coconut mite damage on different coconut varieties.
- Suggest remedial measures for eradicating this problem.

PAC observed that the mandate of the implementing agency is socio-economic research on wide range social issues which does not suits the project submitted by the agency. Moreover the similar studies have already been conducted earlier, therefore PAC decided that the project need not be supported under TMOC scheme and **did not approve the project.**

**6. Wastewater Treatment of Desiccated Coconut Industry – Full Scale Demonstration Plant- CSIR- National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, Kerala**

The objectives of the project are as follows:

- Setting up of an ETP and Demonstration of ET process at a coconut factory site.
- Performance monitoring, analysis and demonstration to prospective users.

Dr. Ajit Haridas, Director, NIIST, Thiruvananthapuram presented the project.

PAC discussed the project in detail and approved the project with a total project cost of Rs. **25.00 lakh** with a project period of two years. PAC suggested that NIIST may identify the unit in consultation with CDB and entrepreneur's contribution should also be indicated.

#### **7. Coconut Shell Oil Based Ecofriendly Therapeutic Products- Veterinary College, Karnataka Veterinary Animal & Fisheries Science University, Hassan, Karnataka**

The objectives of the project are as follows:

- **Physical and chemical characterization:** To characterize the coconut shell and the liquid bio oil for their physical properties and chemical composition.
- **Pharmacological evaluation:** To characterize the coconut shell bio oil both *in vitro* and *in vivo* for their pharmacological and toxicological properties.
- **Standardization of therapeutic formulations and commercialization:** To formulate coconut shell oil based therapeutic products for commercial production.

Dr. Hemanna Gowda K, Assistant Professor and Principal Investigator (PI), Veterinary College Hassan, Karnataka presented the project.

PAC discussed the project in detail and approved the project with a total project cost of **Rs 23.19 lakh** for a period of two years.

#### **8. Design, Development and Field Demonstration of an Air Blast Sprayer for Coconut- ICAR-Central Plantation Crops Research Institute, Kasargod, Kerala**

The objectives of the project are as follows:

- Design and fabrication of an air blast sprayer for coconut.
- To evaluate the performance of the prototype of the sprayer developed.
- Modification of the prototype, if required.
- Field Demonstration of the sprayer.

Dr. A C Mathew, Principal Scientist and Principal Investigator (PI), CPCRI, Kasargod, Kerala presented the project.

PAC discussed the project in detail and approved the project with a total project cost of **Rs. 9.00 lakh** and project duration of two years.

**9. Design and Fabrication of Tender Coconut Minimal Processing Machine- ICAR-Central Plantation Crops Research Institute, Kasaragod, Kerala**

The objectives of the project are as follows:

- Design and fabrication of tender coconut minimal processing machine.
- Performance evaluation of developed tender coconut minimal processing machine.

Dr. A C Mathew, Principal Scientist and Principal Investigator (PI), CPCRI, Kasaragod, Kerala presented the project.

PAC observed that this type of machines are already available in the market. Hence PAC suggested to study the efficiency of the existing machines and conceptualize for improvising the existing machines or innovative prototype and **project submitted accordingly for consideration of forthcoming PAC meetings.**

**10. Higher Productivity and Profitability from Coconut Gardens through Soil Health Management in Tuber Crops- ICAR – Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram, Kerala**

The objectives of the project are as follows:

- Promotion of customized fertilizers in tropical tuber crops intercropped in coconut gardens through farmers' participatory site specific nutrient management (by demonstrations and on-farm trials) in cassava, elephant foot yam and yams.
- Validation and popularization of organic production technologies in cassava, elephant foot yam and yams intercropped in coconut gardens (through demonstrations and on-farm trials) and produce safe-to eat food.
- Capacity building of farmers, SHGs and NGOs for the promotion of these technologies in these crops and overall development and sustainable livelihood of coconut growers.

Dr. G. Byju, Principal Scientist and Principal Investigator (PI), CTCRI, Thiruvananthapuram, Kerala, presented the project.

PAC discussed the project in detail and approved the project with a total project cost of **Rs. 25.00 lakh** and project duration of 3 years.

**11. Technology Demonstration for Eriophyid Mite Control in Coconut Farm at CDB, Pitapalli, Bhubaneswar, Odisha- Coconut Development Board, State Centre, Odisha**

The objectives of the project are as follows:

- To demonstrate the process technology for Eriophyid mite control in coconut farm at CDB, Pitapalli, Bhubaneswar.
- To demonstrate the efficacy of coir pith enriched with herbal plants for mite control at CDB, DSP Farm, Pitapalli, Bhubaneswar.
- To demonstrate bio-efficacy of the formulated organic manure for controlling other associated pathogens, insect-pests in coconut farm.
- To assess enhancement of micronutrient and soil moisture content by the proposed technology concept of coir pith compost and its impact on coconut productivity.

Dr. Rajat Kumar Pal, Deputy Director and Principal Investigator (PI), CDB Odisha, presented the project.

PAC discussed the project in detail and technically approved the project with the decision to examine the project as one of the activity of the farm and **place before the next PAC.**

## **12. Kera Coconut Harvesting Machine- Government Engineering College, Thrissur, Kerala**

The objective of the project is to design, develop and test the robotic harvesting machine.

Dr. Manesh K.K. Associate Professor and Principal Investigator (PI), Govt Engineering College, Thrissur, Kerala presented the project.

PAC discussed the project in detail and approved the project with a total project cost of Rs. **2.97 lakh** and project duration of one year.

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

## **13. Setting up of Desiccated Coconut Powder Manufacturing Unit - M/s Vandana Coco Products, Sy. No. 123 & 124, Kalkere Road, Tiptur Kasaba, Tumkur Dist, Karnataka**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit with a capacity to process 20, 000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakh)		
Land	Leased	-	-
Building & Civil works	Leased	-	-
Plant & Equipments	67.24	61.11	15.28
Others	1.00	-	-
Working Capital margin	44.53	--	-
<b>TOTAL</b>	<b>112.77</b>	<b>61.11</b>	<b>15.28</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 15.28 lakh**.

**14. Setting up of a Desiccated Coconut Powder Manufacturing Unit - M/s Pollachi Coconut Producer Co. Ltd 70/2 Palaghat Road, Pollachi, Coimbatore Dist, Tamil Nadu**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit with a capacity to process 40,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakh)		
Land	Own	-	-
Building & Civil works	62.40	46.03	11.51
Plant & Equipments	136.10	136.10	34.02
Electrification	22.61	6.51	1.63
ETP	9.56	9.56	2.39
Preliminary & Pre op. expenses	2.33	1.98	0.49
Working Capital Margin	30.00	-	-
<b>TOTAL</b>	<b>263.00</b>	<b>200.18</b>	<b>50.04</b> <b>Limited to</b> <b>50.00</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 50.00 lakh**.

**15. Setting up of a Desiccated Coconut Powder Manufacturing Unit - M/s Sharavati Agrotech Pvt Ltd, 'Saraswati, Sy. No. 968 in Karki-1 Village, Prabhat Cross 4, Honavar Tq, Karnataka**

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

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	-	-	-
Building & Civil works	34.00	19.29	4.82
Plant & Equipments	35.00	28.94	7.24
Electrical Installation	5.00	1.45	0.36
Pre op. expenses	2.00	0.50	0.13
Working Capital Margin	10.00	-	-
<b>TOTAL</b>	<b>86.00</b>	<b>50.18</b>	<b>12.55</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of Rs. 12.55 lakh.

**Frozen Shredded Coconut Manufacturing Unit**

**16. Setting up of a Frozen Shredded Coconut Manufacturing Unit – M/s Jacob and Richard International Pvt Ltd, X/233 A, Kadanadu Post, Ramapuram, Kottayam Dist, Kerala**

The objective of the project is setting up of a frozen shredded coconut manufacturing unit with a capacity to process 5.00 MT coconuts per day for producing 1.60 MT of frozen shredded coconut.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Own	-	-
Building & Civil Works	56.50	43.00	10.75
Plant & Equipments	92.20	92.20	23.05
Electrification	5.20	4.61	1.15

ETP	9.00	9.00	2.25
DG Set	7.90	5.00	1.25
Preliminary & Pre op. Expenses	2.80	1.54	0.39
Working Capital Margin	6.00	-	-
<b>TOTAL</b>	<b>179.60</b>	<b>155.35</b>	<b>38.84</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of Rs **38.44 lakh**.

### **Integrated Coconut Processing Units**

#### **17. Setting up of a Virgin Coconut Oil & Desiccated Coconut Powder Manufacturing Unit – Dr. Shekar & Sadashiva Agri. Pvt. Ltd, Durga Krupa, Kaluvina Bagilu, Near Vijaya Bank, Gulvady Post, Kundapura Taluk, Udupi Dist, Karnataka**

The objective of the project is setting up of a Virgin Coconut Oil & Desiccated Coconut Powder manufacturing unit with a capacity to process 20,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land	Own	-	-
Plant & Equipments	105.36	89.89	22.47
Lab Equipments	1.20	1.20	0.30
ETP	7.47	6.33	1.58
Generator	7.32	5.00	1.25
Building & Civil Works	55.00	26.00	6.50
Electrical Installation	11.35	4.80	1.20
Technical Know-How	0.57	0.57	0.14
Working Capital Margin	90.00	-	-
<b>TOTAL</b>	<b>278.27</b>	<b>133.79</b>	<b>33.44</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 33.44 lakh**.

#### **18. Setting up of an Integrated Coconut Processing unit for the production of VCO, DC & Coconut Milk - M/s Anjarakandy Farmers' Co-op Bank Ltd, Kavinmoola, Manba, Kannur Dist, Kerala**

The objective of the project is to process 4.00 MT of coconuts per day for producing VCO and 1.00 MT coconuts per day for the manufacturing of Coconut Milk and defatted DC Powder (Processing of total 12,000 coconuts per day)

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Own	-	-
Building & Civil Works	76.24	24.30	6.08
Plant & Equipments	110.98	110.98	27.74
Installation & Commissioning	3.50	1.11	0.28
DG Set	9.00	5.00	1.25
ETP	7.50	7.50	1.88
Electrical Installation	38.28	5.58	1.39
Others	26.99	-	-
Preliminary & Pre op. Expenses	2.00	1.54	0.38
Working Capital Margin	60.00	-	-
<b>TOTAL</b>	<b>334.49</b>	<b>156.01</b>	<b>39.00</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 39.00 lakh.**

### **Tender Coconut Water Processing Units**

**19. Setting up of a Bottled Tender Coconut Water Unit – M/s MS Cocopani, No. 216, Chattaradahosahalli, Maddur – Malavalli Road, Chikkarasinakere Hobli, Maddur Taluk, Mandya Dist, Karnataka**

The objective of the project is setting up of a unit for processing and packaging of tender coconut water with a capacity to process 15,000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Own	-	-
Building & Civil Works	34.65	28.24	7.06
ETP	10.00	10.00	2.50
RO Plant for Water	1.89	1.89	0.47

Purification			
Plant & Equipments	66.24	66.24	16.56
Electrification	5.95	3.31	0.83
Technical Know-How	3.50	3.50	0.88
Generator	4.50	4.50	1.12
Preliminary & Pre op. Expenses	1.25	1.17	0.29
Working Capital Margin	13.62	-	-
<b>TOTAL</b>	<b>141.60</b>	<b>118.85</b>	<b>29.71</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of Rs. **29.71 lakh**.

**20. Setting up of a unit for Preservation and Packaging for Tender Coconut Water – M/s Varrun Aquaa Beverages Pvt Ltd, Plot No. 22/A, Industrial Park, Bhongir Village & Mandal, Nalgonda Dist, Telangana**

The objective of the project is setting up of a unit for processing and packaging of tender coconut water with a capacity to process 10,000 nuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land	Leased	-	-
Building & Civil Works	Leased	-	-
Plant & Equipments	103.00	102.39	25.60
Electrical Installation	2.00	2.00	0.50
Technology Transfer Fee	3.75	3.75	0.94
Preliminary & Pre op. Expenses	1.25	1.08	0.27
Working Capital Margin	15.00	-	-
<b>TOTAL</b>	<b>125.00</b>	<b>109.22</b>	<b>27.31</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 27.31 lakh**.

**Coconut Flour Based Dietary Fibre Making Unit**

**21. Setting up of a Unit for Production of Dietary Fibre from Coconut Flour – M/s Vama Oil Private Ltd, 3/117, Peedampalli Main Road, Peedampalli Post, Coimbatore, Tamil Nadu**

The objective of the project is to process 4.00 MT of coconut flour per day to produce 1.20 MT Dietary Fibre.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakh)		
Land	Leased	-	-
Building & Civil Works (Including ETP)	35.00	20.00	5.00
Plant & Equipments	150.60	150.42	37.61
Electrification	8.00	7.52	1.88
Furniture & Office Equipments	1.72	-	-
Working Capital Margin	10.68	-	-
<b>TOTAL</b>	<b>206.00</b>	<b>177.94</b>	<b>44.49</b>

After detail discussion, PAC decided since this project is based on new technology endorsed by CFTRI, Mysore and neither representative from CFTRI nor the promoter was present in the meeting to explain in detail about the project, therefore **the project is deferred for next PAC.**

**Coconut Oil Manufacturing Units**

**22. Setting up of Coconut Oil Manufacturing Unit -M/s Thejaswini Coconut Farmers' Producer Company Ltd, C.P.II-376/K7, First Floor, Thattassery Building Cherupuzha PO, Kannur, Kerala**

The objective of the project is setting up of a unit for manufacturing of coconut oil with a capacity to process 15,000 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	Own	-	-
Building	44.60	41.00	10.25
Plant & Machinery	143.15	143.14	35.78
Generator	7.35	5.00	1.25
Electrification Works	30.00	7.40	1.85
ETP	12.00	12.00	3.00
Weighing Scale	0.12	0.12	0.03
Furniture and Office Equipments	2.11	-	-
Preliminary & Pre op. Expenses	3.00	2.00	0.50
Working Capital Margin	19.19	-	-
<b>TOTAL</b>	<b>261.52</b>	<b>210.66</b>	<b>52.66 Limited to 50.00</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 50.00 lakh**.

**23. Setting up of Coconut Oil Manufacturing Unit – M/s Pollachi Coconut Producer Co. Ltd, 70/2 Palaghat Road, Pollachi, Coimbatore Dist, Tamil Nadu**

The objective of the project is setting up of a unit for manufacturing of coconut oil with a capacity to process 15.00 MT of copra per day to produce 9.50 MT of coconut oil and 5.50 MT cake.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakh)</b>		
Land	Own	-	-

Building & Civil Works	34.70	34.70	8.68
Plant & Equipments	149.60	149.60	37.40
Electrification	14.38	7.48	1.87
DG Set	4.50	4.50	1.12
Preliminary & Pre op. Expenses	1.00	1.00	0.25
<b>TOTAL</b>	<b>204.18</b>	<b>197.28</b>	<b>49.32</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 49.32 lakh**.

### **Copra Making Units**

#### **24. Setting up of Copra Making Unit – M/s Ubhaya Godavari Coconut Producer Co. Ltd, Medapadu (v), Yelamanchili Mandal, West Godavari Dist, Andhra Pradesh**

The objective of the project is setting up of copra making unit with a capacity 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	Leased	-	-
Plant & Equipments	11.50	11.50	2.88
Building	10.00	10.00	2.50
DG Set	3.50	3.50	0.87
<b>TOTAL</b>	<b>25.00</b>	<b>25.00</b>	<b>6.25</b>

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

#### **25. Setting up of Copra Making Unit – M/s Vattamkulam Federation of Coconut Producers Societies, Vattamkulam, Chekanur Post, Malappuram Dist, Kerala**

The objective of the project is setting up of a copra making unit with a capacity 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	Leased	-	-
Plant & Equipments	12.80	12.80	3.20
Building	10.20	3.47	0.87
Working Capital Margin	0.75	-	-
<b>TOTAL</b>	<b>23.75</b>	<b>16.27</b>	<b>4.07</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 4.07 lakh**.

**26. Setting up of Copra Making Unit – M/s Wayanad Federation of Coconut Producers Societies, Panamaram Post, Pandichira Village, Sulthan Bathery Tk, Wayanad Dist, Kerala**

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

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Leased	-	-
Plant & Equipments	5.40	5.40	1.35
Building & Civil Works	12.20	12.20	3.05
Generator	2.65	2.65	0.66
Working Capital Margin	4.00	-	-
<b>TOTAL</b>	<b>24.25</b>	<b>20.25</b>	<b>5.06</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 5.06 lakh**.

**27. Setting up of Copra Making Unit – M/s Kalpavruksha Coconut Federation, Aralam North, Keezhapally Post, Kannur Dist, Kerala**

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

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Leased	-	-

Plant & Equipments	7.06	7.06	1.76
Building & Civil Works	18.00	18.00	4.50
<b>TOTAL</b>	<b>25.06</b>	<b>25.06</b>	<b>6.26</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 6.26 lakh.**

### **Ball Copra Making Units**

#### **28. Setting up of a Ball Copra Making Unit - Shri Koppiseti Swami Naidu S/o Shri Venkateswarlu, D.No. 1-300/1, Mattaparru Village, Malikipuram Mandal, East Godavari Dist, Andhra Pradesh**

The objective of the project is setting up of a ball copra making unit with a capacity to process 1.50 lakh coconuts per year.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	0.30	-	-
Platform Dryer	15.00	5.25	1.31
Preliminary & Pre op. Expenses	0.30	-	-
Working Capital Margin	5.00	-	-
<b>TOTAL</b>	<b>20.60</b>	<b>5.25</b>	<b>1.31</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 1.31 lakh.**

#### **29. Setting up of a Ball Copra Making Unit – Shri Pabolu SVSRK Kumar S/o Suryanarayana, 105, Ranalayam Veedhi, Veluvalapalli, Inavalli Mandal, East Godavari Dist, Andhra Pradesh**

The objective of the project is setting up of a ball copra making unit with a capacity to process 8.00 lakh coconuts per year.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Own	-	-
Platform Dryer	40.00	28.00	7.00

Working Capital Margin	10.00	-	-
<b>TOTAL</b>	<b>50.00</b>	<b>28.00</b>	<b>7.00</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 7.00 lakh**.

**30. Setting up of a Ball Copra Making Unit – Shri Arigela Papa Rao S/o Shri Surya Rao, M/s Om Vignesware Coconut Traders, Tottaramudi Panchayat, Ainavilli Mandal, East Godavari Dist, Andhra Pradesh**

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

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

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

**31. Setting up of a Ball Copra Making Unit – Shri Batchu Sri Rama Chandra Murthy S/o Shri Naga Subrahmanyam, D. No. 1-88, Kappulaveedhi, Mukkamala, Ambajipeta Mandal, East Godavari Dist, Andhra Pradesh**

The objective of the project is setting up of a ball copra making unit with a capacity to process 12.50 lakh coconuts per year.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	22.50	-	-
Platform Dryer	43.50	31.50	7.87
Pre-operative Expenses	4.55	-	-
Working Capital Margin	9.50	-	-
<b>TOTAL</b>	<b>80.05</b>	<b>31.50</b>	<b>7.87</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 7.87 lakh**.

**32. Setting up of a Ball Copra Making Unit – Shri Adabala Satynarayana Murthy S/o Shri Narasimha Murthy, D. No. 3-134, Kapulapalaem, Achanta Village & Mandal, West Godavari Dist, Andhra Pradesh**

The objective of the project is setting up of a ball copra making unit with a capacity to process 4.00 lakh coconuts per year.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land	0.60	-	-
Platform Dryer	38.00	14.00	3.50
Preliminary & Pre op. Expenses	0.60	-	-
Working Capital Margin	10.00	-	-
<b>TOTAL</b>	<b>49.20</b>	<b>14.00</b>	<b>3.50</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 3.50 lakh**.

**Coconut Shell Charcoal Manufacturing Units**

**33. Setting up of Coconut Shell Charcoal Manufacturing Unit – M/s Apan Carbon Pvt. Ltd, Reg. Office, 9 2 B, South Raja Street, Tuticorin, Tamil Nadu**

The objective of the project is setting up of a coconut shell charcoal manufacturing unit with a capacity to produce 10.00 MT Shell Charcoal per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land	Own	-	-
Building & Civil Works	44.02	5.10	1.28
Plant & Equipments	114.61	104.76	26.19
Electrical Installation	6.49	2.90	0.72
Preliminary & Pre op.	4.88	1.12	0.28

Expenses			
Working Capital Margin	100.00	-	-
<b>TOTAL</b>	<b>270.00</b>	<b>113.88</b>	<b>28.47</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 28.47 lakh**. PAC suggested that after a period of two years of successful running of the unit, the promoter may patent the technology and provide to promising entrepreneurs on payment basis.

**34. Setting up of Coconut Shell Charcoal Manufacturing Unit – M/s Maruthi Charcoal, Industry, Sy No. 13/2, Nagaraghatta Kaval, Kaidal Gate, Nonavinakere Hobli, Tiptur Tk, Tumkur Dist, Karnataka**

The objective of the project is setting up of a coconut shell charcoal manufacturing unit with a capacity to process 6.00 lakh coconut shells per day to produce 20.00 MT Charcoal per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land	Own	-	-
Building & Civil Works	67.25	36.75	9.19
Plant & Equipments	55.19	55.09	13.77
Others (Deposit)	0.35	-	-
Working Capital Margin	5.00	-	-
<b>TOTAL</b>	<b>127.79</b>	<b>91.84</b>	<b>22.96</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 22.96 lakh**.

**Market Promotional Projects**

**35. Market Promotional Programme by M/s Vadakara Coconut Farmers Producers Company Limited (VCFPC), 19/408 K, M&L, Al- Diyafa Complex, Co-operative Hospital Road, Karimanapalam, Vadakara, Kerala**

The objective of the project is to carry out market promotional programme for coconut products through electronic and print media, brochures, danglers and mini hoardings etc.

Sl. No.	Activities Proposed	Cost		Eligible Cost
		(Rs. in lakh)		
1	<b>Brand publicity through electronic media:</b> Advertisement through Mathrubhumi News	18.00	18.00	12.50 Limited to max. eligibility
2.	<b>Brand publicity through print media:</b>			
	1. Advt.through Mathrubhumi News Paper	5.67		
	2. Advt. in Mathrubhumi Onam Pathippu	0.50	6.17	6.17
3	<b>Purchase of Vehicle (3 Nos.):</b>			
	1. Tata Ace Zip	3.00		
	2. Tata Ace Mini	5.24	13.82	1.00
	3. Mahindra Supro	5.58		
4	<b>Preparation of POP materials :</b>			
	1. Product Brochure	0.30	0.50	0.50
	2. Notice	0.10		
	3. Dangers	0.10		
5	<b>Mini Hoardings – 50 nos.</b>	0.50	0.50	0.50
	<b>TOTAL</b>	<b>38.99</b>	<b>38.99</b>	<b>20.67</b>

**36. Market Promotional Programme by M/s Thejaswini Coconut Farmers Producer Company Ltd., C.P.II-376/K7, First Floor, Thattassery Building, Cherupuzha P.O., Kannur, Kerala**

The objective of the project is to carry out market promotional programme for coconut products through electronic and print media, brochures and mini hoardings etc.

S. No	Activities Proposed	Cost		Admissible Cost
		(Rs. in lakh)		

1	<b>Brand publicity through electronic media:</b> Advertisement through Mathrubhumi News and Manorama News	17.325	12.50
2.	<b>Brand publicity through print media:</b>		
	1. Advt. through Mathrubhumi Arogya Masika	2.00	
	2. Manorama Karshakasree	1.00	
	3. Mathrubhumi Daily	0.55	
	4. Manorama Daily	0.30	
	5. Kerala Karshakan	1.25	
		5.10	5.10
3	<b>Purchase of Vehicle:</b>		
	1.Mahindra Pick Up	8.00	
	2.Force Traveler	9.00	
		17.00	1.00
4	<b>Participation in Buyers Seller Meet:</b> Fair Trade Summit 2018 at Germany	6.00	-
5	<b>Product Quality Certification:</b>		
	1. HACCP	1.50	
	2. FSSAI	0.09	
	3. AGMARK	0.15	
	4. BARCODE	0.60	
	5. TRADE MARK	0.15	
		2.49	-
6	<b>Label and package design:</b> Label Design	0.50	-
7	<b>Preparation of POP materials :</b>		
	1. Notice	0.125	
	2. Product Brochure	0.500	
	3. Boards	0.100	
	4. Posters	0.200	
		0.925	0.925
8	<b>Mini Hoardings – 50 nos.</b>	0.500	0.500
	<b>TOTAL</b>	<b>49.84</b>	<b>20.025</b>

**37. Market Promotional Programme by M/s Palakkad Coconut Producer Company Limited, Urkulam, Muthalamada, Palakkad, Kerala**

The objective of the project is to carry out market promotional programme for coconut products through electronic and print media, brochures, dangles, outdoor advertising and quality management.

Sl. No.	Activities Proposed	Cost	Admissible Cost
		(Rs. In lakhs)	
1	Branding- Label re designing	10.48	-
2	Brand publicity through electronic media	10.00	10.00
3	Brand publicity through print media	10.00	10.00
4	Preparation of POP materials	10.00	10.00
5	Outdoor Advertising	10.08	10.00
6	Product Quality Certification	10.00	-
	<b>TOTAL</b>	<b>60.56</b>	<b>40.00 Limited to 25.00</b>

**38. Market Promotional Programme by M/s Onattukara Coconut Farmers Producer Company Ltd., Vetticodu, Kattanam P.O., Alappuzha District, Kerala**

The objective of the project is to carry out market promotional programme for coconut products through electronic and print media, brochures, dangles and mini hoardings.

Sl. No	Activities Proposed	Cost	Eligible Cost
		(Rs. in lakh)	
1	Brand publicity through electronic media: Including Web site and Publicity through All India Radio	13.50	12.50
2.	Brand publicity through print media	5.00	5.00
3	Purchase of Vehicle	6.50	1.00
4	Preparation of POP materials	4.00	4.00
5	Hoardings	7.00	7.00

6	Acquisition of Quality Certification	4.00	-
	<b>TOTAL</b>	<b>40.00</b>	<b>29.50 Limited to 25.00</b>

**PAC Decision for Project No 35-38:-**

After detail discussion PAC decided that

1. The projects need to be examined and reviewed by a subcommittee consisting of PAC members with some specialist in the field of marketing and formulate the guidelines with components to be considered under the market promotional projects.
2. The market promotional activities to be taken up through social media may be also be included.
3. The market promotional activities should be taken up through regional as well as national level news papers also.
4. A common market promotional campaign may be formulated for the FPOs.
5. The comments of the PAC as well as ISC should be communicated to entrepreneurs.

PAC decided to defer all the four projects to place before next PAC with action/recommendations of the subcommittee.

**Other Items:-**

1. **Approval of the Project ‘Standardization of Protocol for the Preparation of Frozen Coconut Delicazy’ of CPCRI, Kasaragod deferred by 49<sup>th</sup> PAC held on 23<sup>rd</sup> Jan 2017 for next PAC due to fund constraint.**

After discussion, PAC approved the project for **Rs. 40.60 lakh with project period of 18 months.**

2. **Setting up of an integrated coconut processing unit for the production of Desiccated Coconut & Virgin Coconut Oil at Campbell Bay, Great Nicobar, A & N Islands by M/s. Riflex Industries Pvt. Ltd, Junglighat, Port Blair, A &N Island**

PAC noted that the modifications have been duly certified by the Bank therefore PAC approved the modified project for making DCP only restricting the eligible cost of plant and machinery to Rs. **63.78 lakh** as approved by 36<sup>th</sup> PAC.

3. **Request of the Bank to waive the interest in the case of refunded subsidy amount**

PAC discussed in detail about the terms and conditions of the MoU and decided to recommend the cases of waiving of interest to the National Steering Committee(NSC) with the suggestions for suitable modification in the MoU clauses related to recovery of interest where subsidy is refunded in the cases where the projects are abandoned midway/term loan closed prematurely.

**Any other items with the permission of Chairman**

- 1. Request from M/s Onattukara Coconut Producer Co. Ltd, Kattanam, Pallickal Post, Alappuzha Dist, Kerala towards the subsidy for excess expenses incurred for Setting up of Coconut Oil Manufacturing Unit – reg.**

PAC noted that the excess expenditure is not endorsed by the bank therefore suggested to CPC to submit the excess expenditure duly certified by the bank. On submission of certificate duly signed by the bank for excess expenditure, the eligible additional subsidy, limiting to maximum subsidy of Rs 50.00 lakh may be released to CPC.

Date: 28.08.2017  
Place: Ernakulum

Chief Coconut Development Officer  
Member Secretary, PAC

## Annexure-I

A	<b>Project Approval Committee</b>
1	Dr.B.N.S.Murthy Chairman, Coconut Development Board & Chairman PAC
2	Shri K.T.Shibu Deputy Secretary, Dept of Agriculture, Govt of Kerala, Representative of - Secretary (Agriculture), Government of Kerala
3	Dr. Hebbar K.B Scientist, CPCRI, Kasaragod, Kerala Representative of - Assistant Director General (Plantation Crops), ICAR, New Delhi
4	Shri P.K.Hameed Kuttu Assistant Agricultural Marketing Adviser, O/o Assistant Agricultural Marketing Adviser, DMI, Kochi, Kerala Representative of - Joint Secretary & Agricultural Marketing Adviser Govt. of India, New Delhi
5	Smt.Usha K. DGM, NABARD, R O, Thriuvananthapuram, Kerala Representative of - Chief General Manager, Technical Services Department, NABARD, Mumbai
6	Shri S. Ayyappan Chief Manager, IOB, Kochi, Kerala Representative of - Chief General Manager, Indian Overseas Bank, Bangalore, Karnataka

7	Shri Saradindu Das Chief Coconut Development Officer Coconut Development Board & Member Secretary, PAC
<b>B</b>	<b>Technical Expert</b>
1	Dr. M.Aravindakshan Former Chairman, CDB and Director Research(Retd), KAU, Thrissur, Kerala
<b>C</b>	<b>Officials of CDB</b>
1	Dr.A.K.Nandi Secretary, CDB, Kochi
2	Shri R. Jnanadevan Deputy Director, CDB, Kochi
3	Shri S.S. Choyal Deputy Director, CDB, Kochi
4.	Shri Sreekumar Poduval Processing Engineer, CIT, Vazhakulam, Aluva
5.	Shri K.S.Sebastian Assistant Director (Mkg.), CDB, Kochi
6.	Shri P.Sabareenathan Finance Officer, CDB, Kochi
7.	Shri V.C.Vasanthkumar Statistical Officer, CDB, Kochi
8.	Shri G.M. Siddharameswara Swamy Assistant Marketing Officer, CDB, Kochi
9.	Ms. Mridula K. Technical Officer, CDB, Kochi