

**Proceedings of the 53<sup>rd</sup> Meeting of  
Project Approval Committee (PAC) of Technology Mission on  
Coconut held at Kochi on 29<sup>th</sup> April 2019**

The 53<sup>rd</sup> meeting of the Project Approval Committee (PAC) on Technology Mission on Coconut was held in the Board Room of Coconut Development Board, Kochi on **29<sup>th</sup> April 2019**. Dr. Usha Rani IAS 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 52<sup>nd</sup> Project Approval Committee Meeting held on 14<sup>th</sup> January 2019**

The Committee confirmed the proceedings of the 52<sup>nd</sup> Project Approval Committee meeting held on 14.01.2019.

**AGENDA No. 2: Action Taken Report on Decisions of the 52<sup>nd</sup> PAC Meeting**

The committee perused the action taken on decisions of the 52<sup>nd</sup> meeting of Project Approval Committee. Deputy Director (Dev) informed that out of 6 (research) projects sanctioned by the 52<sup>nd</sup> PAC, in 6 projects action has been taken, fund released and projects are progressing. A Project on “**Accelerated production of mature coconut water Vinegar**” submitted by CSIR- Central Food Technological Research Institute, Mysuru was placed before 52<sup>nd</sup> PAC and it was decided for resubmission of the revised project. PAC members during the 53<sup>rd</sup> meeting opined that being a feasible project the same can be considered after obtaining the revised project. Rest cases which were deferred can be rejected.

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

- 1. Process Development for the Isolation of Coconut Protein from the Meat after Virgin Coconut Oil Extraction and its Characterization Studies- CSIR-National Institute for Interdisciplinary Sciences and Technology (NIIST), Trivandrum, Kerala.**

The objectives of the project are as follows:

- Process optimization for the extraction of proteins from the meat that is generated as spent in virgin coconut oil manufacturing industry.
- The isolated proteins will be studied for its physiochemical properties as well as biological effects.

PAC perused on the recommendations of the ISC and **decided to reject the project.**

**2. Estimation of chemical contaminants in fresh/packaged tender coconut water/commercial Coconut milk- National Institute of Nutrition, Indian Council of Medical Research, Hyderabad, Andhra Pradesh**

The objectives of the project are as follows:

1. To administer the questionnaire on the types of the recommended/non-labelled or non-recommended pesticides that are applied on to the coconut crops from the selected farms of the identified districts of the six major States in India.
2. To assess the extent of chemical contamination with pesticide residues and heavy metals (Pb, Cr, Co, Zn,) including EDCs like Arsenicin fresh/packaged/bottled tender Coconut water samples collected from the major coconut cultivating States.
3. To identify the source of chemical contamination including EDCs through the analysis of soil samples of coconut crop cultivated areas using LC-MS-MS and ICPOES.
4. To assess the marketed coconut milk samples for chemical contaminants including EDCs using LC-MS-MS and ICPOES.

PAC perused the recommendations of the ISC and **decided to reject the project.**

**3. Mission mode programme on the management of coconut rugose spiralling whitefly Aleurodicus Rugiopercaultus Martin with nymphal parasitoid, Encarisa guadeloupae Viggiani- Tamil Nadu Agricultural University (TNAU), Coimbatore**

The objectives of the project are as follows:

1. Mass production of parasitoid, Encarisa guadeloupae in shade house/field laboratories.
2. Field released and impact analysis of the parasitoid, E. guadeloupae.
3. Management of sooty mould
4. Technology dissemination

PAC discussed the project in detail and **approved the project subject to the conditions that the observations of ISC are incorporated in the project.**

**4. Frontline Demonstration on Integrated Pest management and Integrated Disease Management in coconut in Assam- ICAR-Central Plantation Crops Research Institute (CPCRI), Research Centre, Kahikuchi, Guwahatti, Assam.**

The objectives of the project are as follows:

1. To organize Frontline Demonstration on IPM and IDM for creating awareness, knowledge and adoption of technologies among the farmers.
2. To empower the coconut farmers, farm women and rural youth through capacity building at various levels to enhance technology utilization and dissemination.

PAC perused on the recommendations of the ISC and observed that since there is no research and demonstration in the project, the same may be resubmitted to the LODP scheme of CDB.

5. ***Methylobacterium* mediated rejuvenation of Coconut gardens affected by Gaja Cyclone in Cauvery delta region of Tamil Nadu- Tamil Nadu Agricultural University (TNAU), Thanjavur**

The objectives of the project are as follows:

1. Standardization of dosage, time interval and method of application of *Methylobacterium* for the cyclone affected palm trees and newly established coconut seedlings.
2. To assess the physiological changes and growth in *Methylobacterium* treat coconut trees in host plant system.
3. Multilocation trial will be conducted to assess the effect of *Methylobacterium* application on growth and establishment of coconut trees.

PAC perused the recommendations of the ISC and **decided to defer the project.**

**Desiccated Coconut Powder Manufacturing Units**

6. **Setting up of Desiccated Coconut Powder Manufacturing Unit - M/s. Hema Coconut Industry, Angarayanallur - 621 802, Udayarpalayam Tk, Ariyalur Dist, Tamilnadu**

The objective of the project is setting up of a desiccated coconut powder manufacturing 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	Own	-	-
Building & Civil works (including ETP)	30.00	30.00	10.00
Plant & Equipments	77.30	77.30	25.74
Electrification & Erection	4.00	3.86	1.28
Misce. Expenses	1.00	-	-
Preliminary & Pre op. expenses	0.50	0.50	0.16
Working Capital margin	7.50	-	
<b>TOTAL</b>	<b>120.30</b>	<b>111.66</b>	<b>37.18</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 37.18 lakh.**

7. **Setting up of a Desiccated Coconut Powder Manufacturing Unit - M/s. Cape Traditions Pvt. Ltd, Holy Cross Colelge Road, Nedunganvillai, Nagercoil, Tamilnadu**

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.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
<b>(Rs. in lakh)</b>			
Land & Land Dev.	14.95	-	-
Building & Civil works	62.90	49.66	12.41
Plant & Equipments	148.10	134.12	33.53
Electrical installation	11.90	6.70	1.67
ETP	7.90	7.88	1.97
Pre op. expenses	6.00	1.98	0.50
Working Capital margin	50.00	-	-
<b>TOTAL</b>	<b>301.75</b>	<b>200.34</b>	<b>50.08</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**.

8. **Setting up of a Desiccated Coconut Powder Manufacturing Unit - M/s. Sri Coco Products, 11, Sakthi Co-op Industrial Estate, Udumalai Road, Pollachi, Coimbatore Dist., Tamilnadu.**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit with a capacity to process 50,000 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)	-	-	-
Plant & Equipments	137.00	137.00	34.25
ETP	5.60	5.60	1.4
<b>TOTAL</b>	<b>142.60</b>	<b>142.60</b>	<b>35.65</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 35.65 lakh**.

9. **Expansion of the Existing Desiccated Coconut Powder Manufacturing Unit - M/s. Indian Coconut Product, SF – 98/A1, Earipatty Village and Post, Dharapuram Road, Pollachi, Tamilnadu.**

The objective of the project is to expand the existing desiccated coconut powder manufacturing unit with a capacity to process 110000 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Lease	-	-
Building & Civil works (renovation)	4.25	-	-
Plant & Equipments	58.61	58.61	14.65
ETP	5.75	5.75	1.44
<b>TOTAL</b>	<b>68.61</b>	<b>64.36</b>	<b>16.09</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs.16.09 lakh.**

**Frozen Shredded and Grated Coconut Units**

10. **Setting up of a Frozen Shredded & Grated Coconut Unit - M/s. Mafy Foods, A/P Shaunagar Parite, Tal-Karveer, Dist. Kolhapur, Maharashtra.**

The objective of the project is setting up of a frozen shredded & grated coconut unit 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	-	-
Internal Road Dev.(specify)	2.58	-	-
Building & Civil works	41.34	34.00	8.50
Plant & Equipments	116.97	116.97	29.24
ETP	0.84	0.84	0.21
Erection & Commissioning	2.88	2.88	0.72
Working Capital margin	17.50	-	-
<b>TOTAL</b>	<b>182.11</b>	<b>154.69</b>	<b>38.67</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 38.67 lakh.**

**11. Setting up of a Frozen Coconut gratings and Coconut Paste Unit - M/s. Sree Saravana Oil Mills, 306 B, 3<sup>rd</sup> Street, Pattaravakkam, Sidco Industrial Estate, Ambattur, Chennai, Tamilnadu.**

The objective of the project is setting up of a frozen coconut gratings and coconut paste 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 with building	Lease	-	-
Plant & Machinery	51.92	51.92	12.98
ETP	3.66	3.66	0.92
Estimate for RO Plant	2.54	2.52	0.63
Electrification	6.63	2.60	0.65
Generator	5.38	5.00	1.25
Miscellaneous Fixed Assets	1.37	-	-
Preliminary & Pre-operative expenses	2.00	0.66	0.16
Soft Loan	4.50	-	-
<b>TOTAL</b>	<b>78.00</b>	<b>66.36</b>	<b>16.59</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 16.59 lakh**.

**Virgin Coconut Oil Manufacturing Unit**

**12. Setting up of a VCO manufacturing unit - M/s. Mahadev Oil Extractors, Senniappa Nagar, Dharapuram, Tirupur Dist., Tamilnadu**

The objective of the project is setting up of a VCO manufacturing unit with a capacity to process 5000 coconut 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	10.00	-	-
Plant & Equipments	41.40	41.40	10.35
ETP	1.80	1.80	0.45
Electrification	1.50	1.50	0.37
Technical Know-how	0.60	0.59	0.15
Working Capital margin	3.17	-	-
<b>TOTAL</b>	<b>58.47</b>	<b>45.29</b>	<b>11.32</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of Rs. **11.32 lakh**.

**Integrated Coconut Processing Unit**

**13. Setting up of an Integrated Coconut Processing Unit for Coconut products like Coconut Milk Powder, Coconut Sugar - M/s. JCP International Pvt. Ltd., National Highway, Kutiyana - 362 650, Dist. Porbandar, Gujarat**

The objective of the project is setting up of a Virgin Coconut Oil, DCP & Vinegar unit capacity with a capacity to process 33,00,000 coconuts/- MT per annum.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Own	-	-
Building & Civil works	25.00	25.00	6.25
Plant & Equipments	155.06	149.05	37.26
Electrification	6.80	6.80	1.70
Other Assets	82.57	-	-
Pre-operative Expenses	2.57	1.81	0.45
Working Capital margin	53.00	-	-
<b>TOTAL</b>	<b>325.00</b>	<b>182.66</b>	<b>45.66</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of Rs. **45.66 lakh**.

**Spray dried coconut milk powder manufacturing unit**

**14. Setting Up of a spray dried coconut milk powder manufacturing unit - M/s K.L.F Nirmal Industries (P) Ltd., Fr. Dismas Road, P.B.No. 40, Irinjalakkuda, Thrissur (Dist), Kerala**

The objective of the project is setting up of a spray dried coconut milk powder with a capacity to process 21,820 coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
<b>(Rs. in lakh)</b>			
Land	Own	-	-
Building & Civil works (renovation)	85.00	69.00	17.25
Plant & Equipments	185.30	150.03	37.51

Furniture & Fittings	1.50	-	-
Electrical & Electronic Installations	17.02	7.50	1.87
Pre operative expenses	6.46	2.26	0.56
Working Capital margin	24.14	-	-
<b>TOTAL</b>	<b>319.42</b>	<b>228.79</b>	<b>57.19</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**.

### **Coconut Milk manufacturing unit**

#### **15. Setting up of a Coconut Milk and other by products manufacturing unit - M/s. Nina Foods, D-7, M.I.D.C., Gokul Shirgaon, (opp. Lada Pumps), Kolhapur, Maharashtra**

The objective of the project is setting up of a coconut milk and other by products manufacturing unit with a capacity to process 12,000 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)	7.95	7.95	1.99
Plant & Equipments	63.45	55.98	13.99
Electrical installation	4.50	2.80	0.70
Others	2.00		
<b>TOTAL</b>	<b>77.90</b>	<b>66.73</b>	<b>16.68</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 16.68 lakh**.

### **Tender Coconut Water Packing Unit**

#### **16. Modernisation and Automation of the existing Tender Coconut Water Packing Unit- M/s. Agricoles Naturel Foods (P) Ltd, Kuttur PO, Thrissur, Kerala**

The objective of the project is modernisation and automation of the existing Tender Coconut Water Packing Unit with a capacity to process 15000 Tender coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakh)		
Land	Own	-	-
Building & Civil works	1.48	1.47	0.37
Plant & Machinery	28.08	27.30	6.82
Working Capital Margin	14.56	-	-
<b>TOTAL</b>	<b>44.12</b>	<b>28.77</b>	<b>7.19</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 7.19 lakh**.

### **Coconut Wood Briquette Manufacturing Unit**

#### **17. Setting up of a Coconut Wood Briquette Manufacturing Unit – M/s Sundaram Bio Mass, Bhagavathy Amman Koil Street Pappammalpuram, Audipatti Post - 625512, Aundipatti Theni District, Tamil Nadu**

The objective of the project is setting up of a coconut wood briquette manufacturing unit with a capacity to process 10 tons of coconut wood per day to produce 6 tons of coconut wood briquettes.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in Lakh)		
Land	Lease	-	-
Building & Civil works	16.10	-	-
Plant & Equipments	52.07	52.07	13.01
Electrification	1.50	1.50	0.37
Transport and erection	1.00	0.52	0.13
Preliminary & Pre op. expenses	2.20	0.69	0.17
Contingencies	2.59	-	-
Other Assets	0.50	-	-
Working Capital margin	5.80	-	-
<b>TOTAL</b>	<b>81.76</b>	<b>54.78</b>	<b>13.69</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs. 13.69 lakh**.

### Activated Carbon manufacturing Units

18. **Setting up of a Activated Carbon manufacturing Unit - M/s. Vadivel Coco tech Pvt. Ltd, 41, Kaliamman Kovil Street, Viswanatham Road, Sivakasi - 626 123, Tamilnadu**

The objective of the project is setting up of an activated carbon manufacturing unit with a capacity to produce 1750 Tons of Activated Carbon per annum.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakh)		
Land	100.00	-	-
Building & Civil works	403.21	346.30	86.57
Plant & Equipments	922.88	922.88	230.72
Preliminary & Pre op. expenses	35.00	12.69	3.17
Others	65.00	-	-
Working Capital margin	138.00	-	-
<b>TOTAL</b>	<b>1664.09</b>	<b>1281.87</b>	<b>320.46</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**.

19. **Setting up of a Activated Carbon Manufacturing Unit - M/s. Acaarb Industries Pvt. Ltd, Mathakovil Street, Ganeshapuram, Trichy Road, Namakkal – 637001, Tamil Nadu**

The objective of the project is setting up of an activated carbon manufacturing unit with a capacity to process 3 tons of Activated Carbon per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(Rs. in lakh)		
Land	2.00	-	-
Building & Civil works	30.00	30.00	7.50
Plant & Equipments	295.00	250.40	62.60
Electrical Installation	5.00	5.00	1.25
Pre-operative expenses	5.00	2.85	0.71
Working Capital Margin	13.00	-	-
<b>TOTAL</b>	<b>350.00</b>	<b>288.25</b>	<b>72.06</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**.

**20. Expansion of the existing Coconut shell based Steam Activated Carbon unit - M/s. Kalpaka Chemicals Pvt. Ltd., 4/133X, Muthammal Colony, IIIrd Street, Tuticorin Dist., Tamil Nadu.**

The objective of the project is setting up of an activated carbon manufacturing unit with a capacity to process 90 MT coconut shell charcoal per day for producing Steam Activated Carbon.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land & Land Dev.	15.00	-	-
Building & Civil works	158.08	158.08	39.52
Plant & Equipments	424.62	381.85	95.46
Electrical Installation	60.00	19.09	4.77
Diesel Generator set	28.35	5.00	1.25
ETP	31.57	10.00	2.50
Technical know-how	-	-	-
Pre operative expenses	7.38	5.74	1.43
Working Capital margin	-	-	-
<b>TOTAL</b>	<b>725.00</b>	<b>579.76</b>	<b>144.93</b> <b>Limited to</b> <b>16.94</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 16.94 lakh**.

**Shell Charcoal Manufacturing Unit**

**21. Setting up of a Shell Charcoal manufacturing unit- M/s Zelos Industries, 85/1, Kilpatti- Kulidhigai Road, Vardapalayam, Perenambet Taluk, Vellore District, Tamil Nadu**

The objective of the project is setting up of a shell charcoal manufacturing unit with a capacity to process 16.6 tons of coconut shell per day to produce 5tons of shell charcoal

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	<b>(Rs. in lakh)</b>		
Land	Lease	-	-
Building & Civil works	25.00	-	-

Plant & Equipments	60.00	59.60	14.90
Electrification	3.00	2.98	0.74
Office furniture	3.00	-	-
Working Capital margin	12.00	-	-
<b>TOTAL</b>	<b>103.00</b>	<b>62.58</b>	<b>15.64</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 15.64 lakh** subject to the condition that **NOC from Pollution Control Board** is submitted.

### **Coconut Oil Manufacturing Unit**

#### **22. Setting up of a Coconut Oil Manufacturing Unit- M/s. Kuttiady Coconut Farmer's Producer Company Ltd, Mundavayal, Vannothichira PO, Kozhikode, Kerala**

The objective of the project is setting up of a coconut oil manufacturing unit with a capacity to process 25,000 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	40.00	25.00	6.25
Plant & Machinery	85.00	83.93	20.98
Technical know-how	0.50	-	-
Wooden racks & shelf for storage of products	1.50	-	-
Preliminary & Pre op. expenses	1.50	1.09	0.27
Working Capital margin	50.00	-	-
<b>TOTAL</b>	<b>178.50</b>	<b>110.02</b>	<b>27.50</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 27.50 lakh**.

### **Copra making unit**

#### **23. Setting up of copra making unit - M/s. Iritty Coconut Farmer's Producer Co. Ltd., Palapuzha, Kakkayangad PO, Kannur**

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
	(Rs. in lakh)		
Land	Own	-	-
Building & civil works	10.00	10.00	2.50
Plant & Equipments	13.01	13.01	3.25
Working Capital margin	7.00	-	-
<b>TOTAL</b>	<b>30.01</b>	<b>23.01</b>	<b>5.75</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 5.75 lakh**.

#### ***D. Other Items***

##### **RATIFICATIONS**

#### **24. Ratification of fund sanctioned and released for Coconut Nursery at KVK, Motihari, Bihar and KVK, Gorakpur, Uttar Pradesh to establish two small coconut nurseries**

An amount of Rs.3.30 lakh has been sanctioned and released to the Coconut Development Board, Regional Office, Patna for establishing a coconut nursery on pilot basis by sowing 10,000 seed nuts at KVK, Motihari, Bihar. Also an amount of Rs.3.55 lakh has been sanctioned and released to the Market Development cum Information Centre, Coconut Development Board, New Delhi for establishing a coconut nursery on pilot basis by sowing 10,000 seed nuts at KVK, Gorakpur, Uttar Pradesh

After detail discussion, PAC ratified an expenditure of **Rs 6.858 lakh** released to CDB, RO, Patna for establishing two small coconut nurseries.

#### **25. Development of Sensors for Quality Evaluation of Coconut Oil- Indian Institute of Food Processing Technology (IIFPT) Thanjavur, Tamil Nadu for a total project cost of Rs. 59.42 lakh.**

After detail discussion, PAC ratified the project cost of **Rs 59.42 lakh** and release of first installment of **Rs. 44.88 lakh**.

#### **26. Design, Fabrication and Field Demonstration of a Neera (Kalparasa) Collection Device- ICAR-Central Plantation Crops Research Institute, Kasaragod, Kerala for a total project cost of Rs.11.20 lakh**

After detail discussion, PAC ratified the project cost of **Rs 11.20 lakh** and release of first installment of **Rs. 5.60 lakh**.

#### **27. Establishment of Dedicated Pilot Plant for virgin coconut oil by wet milling- CSIR - Central Food Technological Research Institute (CFTRI), Mysuru for a total project cost of Rs.29.40 lakh**

After detail discussion, PAC ratified the project cost of **Rs 29.40 lakh** and release of first installment of **Rs.15.95 lakh**.

- 28. Application of coconut flour in improving functional, rheological and nutritional properties of wheat dough - CSIR - Central Food Technological Research Institute (CFTRI), Mysuru for a total project cost of Rs.14.97 lakh**

After detail discussion, PAC ratified the project cost of **Rs 14.97 lakh** and release of first installment of **Rs.9.41 lakh**.

- 29. Design and Development of Reactor for Processing of Coconut based Beverages with UV-C Irradiation - CSIR - Central Food Technological Research Institute (CFTRI), (CFTRI), Mysuru for a total project cost of Rs.26.75 lakh**

After detail discussion, PAC ratified the project cost of **Rs 26.75 lakh** and release of first installment of **Rs. 21.25 lakh**.

- 30. Biocontrol based management of Rugose spiralling whitefly, *Aleurodicus rugioperculatus* on coconut in Andhra Pradesh- Horticulture Research Station, Dr Y.S.R. Horticultural University Ambajipets, East Godavari, Andhra Pradesh for a total project cost of Rs.34.57 lakh**

After detail discussion, PAC ratified the project cost of **Rs.34.57 lakh** and release of first installment of **Rs.20.35 lakh**.

- 31. Processing of coconut milk, development of beverage from curcumin enriched nanoemulsified coconut milk (partially defatted) and pineapple juice and evaluation of their health implications- Tezpur University, Tezpur, Assam and CSIR- Central Food Technological Research Institute, Mysore for a total project cost of Rs.39.83 lakh**

After detail discussion, PAC ratified the project cost of **Rs.39.83 lakh** and release of first installment of **Rs. 22.17 lakh**.

- 32. Evaluation of Coconut Oil for Application in High Voltage Transformer- North Eastern Regional institute of Science and Technology, Nirjuli, Arunachal Pradesh for a total project cost of Rs.27.98 lakh**

After detail discussion, PAC ratified the project of **Rs.27.98 lakh** release of first installment of **Rs. 13.99 lakh**.

- 33. Design and Development of Digital Image Database with an Android Apps and Web system for the detection of major pests and diseases of coconut of Assam for a total project cost of Rs.18.42 lakh**

After detail discussion, PAC ratified the project of **Rs.18.42 lakh** and release of first installment of **Rs.11.61 lakh**.

**34. Setting up Coconut Technology Development center in Assam- Coconut Development Board, Regional Office, Guwahati for a total project cost of Rs.30.00 lakh**

After detail discussion, PAC ratified the project of **Rs.30.00 lakh** and release of first installment of **Rs. 15.00 lakh**.

**35. CDB-IIFPT Common Incubation Facility for Production of Virgin Coconut Oil and its Value added Products to Increase Coconut Farmer's Income for a total project cost of Rs.25.00 lakh**

After detail discussion, PAC ratified the project of **Rs.25.00 lakh** and release of first installment of **Rs. 12.50 lakh**.

**Ball Copra Making Units**

It is mentioned that a view has to be taken on pending ball copra units as it is felt that this is a routine technology. However all members of PAC felt that these units are established by small entrepreneurs, sometimes farmers and hence they are to be encouraged. Hence PAC cleared all pending ball copra units subject to satisfaction of all other requirements and documentation.

**36. Setting up of a Ball Copra Making Unit - Shri. Nithin Johny, Thengupallil House, Chappanthottam Post, Kozhikode Dist, Kerala**

The objective of the project is setting up of a ball copra making unit with a capacity to process 1 lakh coconut per year.

<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	-	-
Plant & Equipments	0.40		
Platform Dryer	15.00	8.75	2.19
Pre & Pre op. expenses	0.10		
Working Capital margin	1.50		
<b>TOTAL</b>	<b>17.00</b>	<b>8.75</b>	<b>2.19</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 2.19 lakh**.

**37. Setting up of a Ball Copra Making Unit - Shri. Abin Poul, Thundiyl Boda making Unit Thundiyl House, Parappa Post, Kasaragod Dist, Kerala**

The objective of the project is setting up of a ball copra making unit with a capacity to process 40,000 coconuts per year

<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	-	-
Plant & Equipments	0.40	-	-
Platform Dryer	9.50	3.50	0.875
Others	0.10	-	-
Working Capital margin	2.50	-	-
<b>TOTAL</b>	<b>12.50</b>	<b>3.50</b>	<b>0.875</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 0.875 lakh**

**38. Setting Up of a Ball Copra Making Unit – Shri. Appana Naga Venkateswara Rao & Shri Appana Naga Venkata Satya Ravi Kumar, Appana Commercial Corporation, Main Road, Machavaram, Ambajipetta, East Godavari Dist, Andhra Pradesh**

The objective of the project is setting up of a ball copra making unit with a capacity to process 10 lakh coconuts per year

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakh)</b>		
Land	15.41	-	-
Platform Dryer	40.00	35.00	8.75
<b>TOTAL</b>	<b>55.41</b>	<b>35.00</b>	<b>8.75</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 8.75 lakh**.

**39. Setting Up of a Ball Copra Making Unit - Smt. Appana Surayavathi & Shri Appana Naga Venkata Raju, Appana Commercial Corporation, Main Road, Machavaram, Ambajipetta, E.G. Dist, Andhra Pradesh**

The objective of the project is setting up of a ball copra making unit with a capacity to process 10 lakh coconuts per year

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakh)</b>		
Land	15.41	-	-
Platform Dryer	40.00	35.00	8.75
<b>TOTAL</b>	<b>55.41</b>	<b>35.00</b>	<b>8.75</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 8.75 lakh**.

**40. Setting up of a Ball Copra Making Unit - Shri. Mariseti Venkata Subba Rao, R. S. No. 674/5<sup>a</sup>, Relangi Village, Iragavaram 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 20 lakh coconuts per year

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakh)</b>		
Land	-	-	-
Building & Civil works	87.44	67.57	16.89
Working Capital Margin			
<b>TOTAL</b>	<b>87.44</b>	<b>67.57</b>	<b>16.89</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 16.89 lakh**.

**41. Setting up of a Ball Copra Making Unit - Smt. Appana Rama Lakshmi, D. No.16-158, Main Road Machavaram, Ambajipeta, East Godavari Dist., Andhra Pradesh**

The objective of the project is setting up of a ball copra making unit with a capacity to process 11 lakh coconuts per year

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakh)</b>		
Land	21.00	-	-
Building & Civil works	41.50	28.97	7.24
Working Capital Margin			
<b>TOTAL</b>	<b>62.50</b>	<b>28.97</b>	<b>7.24</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 7.24 lakh**.

**42. Setting up of a Ball Copra Making Unit - Shri. Kunhammed, Nellocha kandy House, Maruthonkara, Kavilumpara Via, Kozhikode, Kerala**

The objective of the project is setting up of a ball copra making unit with a capacity to process 17,000 coconuts per year

<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	4.00	0.875	0.22
Plant & Equipments	0.05	-	-
Preliminary expenses	0.05		
Working Capital Margin	0.90		
<b>TOTAL</b>	<b>5.00</b>	<b>0.875</b>	<b>0.22</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 0.22 lakh**.

**43. Setting up of a Ball Copra Making Unit – Shri. Borsu Naga Venkata Satayanarayana Murthy, D.No.3-175, Borsu Vari Veedhi, Pasarlupudilanka Village, Mamidikuduru 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 10 lakh coconuts per year

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(Rs. in lakh)</b>		
Land	-	-	-
Building & Civil works	30.69	29.29	7.32
Working Capital Margin			
<b>TOTAL</b>	<b>30.69</b>	<b>29.29</b>	<b>7.32</b>

After detail discussion, PAC approved the project with a maximum eligible subsidy of **Rs 7.32 lakh**.

**Other points discussed:-**

1. The Chairperson, CDB has instructed to review the current status of all 484 units assisted under TMOC scheme of Board. A proper format with all necessary information's needs to be prepared and forwarded to all the 484 units. The information shall be placed before next PAC.
2. Quality testing in terms of pesticide residue contaminations of coconut products like tender coconut and coconut milk needs to be carried out through reputed laboratories having the desired facility for detecting the pesticide residue. This project shall be taken up by CDB itself. Nutritional value of various products can also be tested.
3. Further Chairperson also stressed that the Board needs to offer technical and financial support for tapping the huge potential of coconuts available in temples, in the entire

country for converting them into value added coconut products. A letter can be addressed to all temple authorities.

4. For the release of 2<sup>nd</sup> & subsequent installments, suitable expert officers from CDB may be identified and responsibility entrusted to conduct the joint inspection along with the Officials of the Bank. Liaison officer shall be appointed to each of the 24 units for which 2<sup>nd</sup> installment is released. Same procedure shall be follow for all units for release of 2<sup>nd</sup> installment.

PAC meeting concluded with vote of thanks from the Chief Coconut Development Officer, Shri Saradindu Das.

Date: 06.05.2019  
Place: Ernakulum

Chief Coconut Development Officer  
Coconut Development Board, Kochi

## Annexure-I

A	<b>Project Approval Committee</b>
1	Dr.Usha Rani IAS Chairman, Coconut Development Board & Chairman PAC
2.	Dr. Wasakha Singh Dhillon Assistant Director General (HS-II) Indian Council of Agriculture Research (ICAR) New Delhi-110 012
3	Dr. KSMS Raghavarao Director Central Food Technological Research Institute Mysore-570 020
4	Mr. Sanjay Kumar Deputy Commissioner (Hort) Krishi Bhavan, New Delhi-110 001  <b><u>Representative of:</u></b> The Horticulture Commissioner Department of Agriculture & Cooperation Krishi Bhavan, New Delhi-110 001
5	Smt Latha S. Deputy Secretary Dept. of Agriculture, Government of Kerala  <b><u>Representative of:</u></b> Secretary Agriculture, Government of Kerala
6	Mr. R. Srinivasan Chief General Manager NABARD, Trivandrum  <b><u>Representative of:</u></b> The Chairman National Bank for Agri. & Rural Development (NABARD), C-24, 'G' Block, Bandra Kural Complex(East), Mumbai – 400 051
7	Shri Philip Y. Chief Manager, Indian Overseas Bank Regional Office, No.2384, Vettukattil Building, 5 <sup>th</sup> Floor, Jose Jn., M G Road, Ernakulam, Kochi <b><u>Representative of:</u></b> The Managing Director & Chief Executive Officer Indian Overseas Bank 763, Anna Salai, Chennai-600 002 Ph: 044-28519500

8	<p>Shri. P.K. Hameedkutty Deputy Agri. Marketing Advisor Directorate of Marketing &amp; Inspection (DMI), Regional Officer, Block 'A', 6<sup>th</sup> Floor, Kendriya Bhavan, Kakkanad, Kochi-682 037</p> <p><b>Representative of:</b> The Joint Secretary &amp; Agri. Marketing Adviser to Govt. of India, Krishi Bhavan, New Delhi-110 001.</p>
9	<p>Shri Saradindu Das Chief Coconut Development Officer Coconut Development Board &amp; Member Secretary, PAC</p>
<b>B</b>	<b>Technical Expert</b>
	<p>Dr. M. Aravindakshan Former Chairman, CDB</p>
<b>C</b>	<b>Officials of CDB</b>
1	<p>Shri. R. Madhu Secretary, CDB, Kochi</p>
2	<p>Shri. E. Aravazhi Deputy Director, CDB, Kochi</p>
3	<p>Smt. Deepthi Nair. S Deputy Director (Mkg), CDB, Kochi</p>
4	<p>Shri Sreekumar Poduval Processing Engineer, CIT, Vazhakulam, Aluva</p>
5	<p>Shri K.S. Sebastian Assistant Director (Mkg), CDB, Kochi</p>
6	<p>Smt Radha P.G., Audit Officer, CDB, Kochi</p>
7	<p>Shri P. Sabareenathan Finance Officer, CDB, Kochi</p>
8	<p>Shri V.C.Vasanthkumar Statistical Officer, CDB, Kochi</p>
9	<p>Smt. Jayashree A, Development Officer, CDB, Kochi</p>
10	<p>Kum. Sharon Mariam Jacob Processing Engineer (on contract, CDB, Kochi)</p>
11	<p>Kum. Ciby Susan Cherian Processing Engineer (on contract, CDB, Kochi)</p>