

Proceedings of the 39th meeting of Project Approval Committee (PAC) of Technology Mission on Coconut held at Kochi on 17th August 2012

The 39th meeting of the Project Approval Committee (PAC) on Technology Mission on Coconut (TMOC) was held at the Board Room of Coconut Development Board, Kochi on 17th August 2012. Shri. T.K. Jose IAS, Chairman, Coconut Development Board and Chairman PAC chaired the meeting. The list of members attended the meeting is given in annexure I.

At the outset Chairman, welcomed the members of PAC and experts to the meeting. In his introductory remarks Chairman mentioned that this is the 10th year of implementation of TMOC programme. He reiterated the need for reorientation of the policies and perspectives for TMOC programme in the emerging market scenario. New initiatives have been initiated by the Board in this regard. Coconut Development Board has signed an MOU with CARE-Keralam, a joint venture of Ayurvedic Entrepreneurs and KINFRA supported by AYUSH (Government of India), to take up research on product development based on traditional ayurveda using coconut products as a main ingredients. CARE-Keralam has also been entrusted with the responsibility of identifying prospective entrepreneurs and hand holding for establishing coconut based value added products manufacturing units with assistance from Coconut Development Board under TMOC. Chairman said that the present PAC would consider research project from CARE-Keralam, Amrita Viswa Vidya Peetham, PSG College of Arts and Science, KAU, etc. Under Processing and Product diversification, 12 Projects with the investment of Rs.22 crores have been received and considered for extending financial assistance. In the present scenario of price crash in coconut sector, there is an urgent need to promote product development, product diversification and establishment of processing units for value added product other than copra and coconut oil.

AGENDA No. 1: Confirmation of the Proceedings of 38th Project Approval Committee Meeting held on 18th May 2012

The Committee confirmed the proceedings of the 38th Project Approval Committee Meeting.

AGENDA No. 2: Action taken report of the 38th PAC Meeting

The committee perused the action taken on the decision of the 38th meeting of the Project Approval Committee.

AGENDA No. 3: Approval of new project proposals:

1. Development of a litholytic formulation, incorporating the medicinal properties of coconut water and core of pseudo stem of plantain tree – CARE-Keralam Ltd., Kinfra Park, Koratty, Thrissur at a total cost of Rs.75.48 lakhs

The project was presented by Shri. D. Suresh Kumar, Head R&D, CARE-Keralam Ltd., Thrissur. The objective of the project to develop an effective litholytic formulation utilizing the diuretic property of tender coconut water.

The PAC after detailed discussion approved the project in principle and authorised Chairman, Coconut Development Board to approve the revised proposal incorporating the following aspects, as and when received.

- i) Honorarium to physicians may be kept at the minimum.
- ii) The share of the Institution and the Board has to be shown separately (50:50 basis).
- iii) The product developed should clearly bring out the medicinal properties of tender coconut water, which should form the main base/ingredient.

The Principal Investigator was requested to revise the proposal and costing accordingly and resubmit to the Chairman, Coconut Development Board for approval.

2. Immunostimulation with Virgin Coconut Oil to treat recurrent infections of the upper respiratory tract of Children - CARE-Keralam Ltd., Kinfra Park, Koratty, Thrissur at a total cost of Rs.60.66 lakhs

The project was presented by Shri. D. Suresh Kumar, Head R&D, CARE-Keralam Ltd., Thrissur. The objective of the project is to assess the immunostimulatory property of VCO in normal children and children suffering from recurrent infections of upper respiratory tract.

The PAC after detailed discussion approved the proposal in principle and authorized Chairman to sanction the eligible grant-in-aid on receipt of revised proposal subject to the following:

- i) Cost on major equipments should be shown as the share of the Institution.
- ii) The period taken for clinical trial for 300 subjects to be reviewed and rationalized.
- iii) Share of the Institution and the Board have to be shown separately.
- iv) All the ethical, social and moral responsibilities as per norms should be taken into account by the Institution conducting the study.

The PI was requested to revise the project accordingly and submit to Coconut Development Board for approval of Chairman.

3. Development of an Anti Diarrhoeal formulation, incorporating the medicinal principles of coconut water and heart wood of *Caesalpinia sappan* - CArE-Keralam Ltd., Kinfra Park, Koratty, Thrissur at a total cost of Rs.63.92 lakhs

The project was presented by Shri. D. Suresh Kumar, Head R&D, CArE-Keralam Ltd., Thrissur. The objective of the project is to develop an effective antidiarrhoeal formulation utilizing the diuretic property of tender coconut water and the antibacterial property of *Caesalpinia sappan*.

The PAC after detailed discussion approved the proposal in principle and authorized Chairman to sanction the eligible grant-in-aid on receipt of revised proposal subject to the following:

- i) Salary component and honorarium have to be revised and should be kept at the minimum.
- ii) The share of the Institution and Board has to be shown separately.
- iii) Infrastructure and equipment should be Institutional share. Equipment like Buchi Rotary Evaporator is shown in each project, should form part of the infrastructure of the Institution and should be shown in any one of the project only.

The PI was requested to revise the project accordingly and submit to Chairman, Coconut Development Board for approval.

4. Improving coconut production in Kerala using soil data through remote sensing and GIS techniques - Amritha Viswa Vidya Peetham University, Amritanagar, Coimbatore at a total cost of Rs.18.856 lakhs

The project was presented by Dr.P. Geetha, Asst. Professor, Amritha University, Coimbatore. The objective of the project is 1) to identify and map, using remote sensing and GIS techniques, the coconut growing areas of Kerala, 2) to create soil data base using GIS for coconut regions identified and 3) to recommend production improvement measures based on soil data base.

After detailed discussion, the PAC opined that the project could be initially implemented in 5 districts of Kerala namely, Kozhikode, Malappuram, Palakad, Thrissur and Ernakulam. Based on the reliability and authenticity of the results, the project can be extended to other

regions in the second phase. The costing and duration have to be revised accordingly. The share of the Institution and the Board have to be shown separately.

The PI was requested to submit revised project to Chairman, Coconut Development Board for sanction of eligible grant-in-aid. The PAC authorised Chairman to approve the revised proposal as and when submitted.

5. Formulation of health mixes with Coconut Milk powder and coconut flour, their shelf life and effect on growth and Immune status - Department of Nutrition and Dietitics, PSG College of arts and science, Coimbatore at a total cost of Rs.24.78 lakhs

The project was submitted by Department of Nutrition and Dietitics, PSG College of Arts and Science, Coimbatore. The objective of the project is to formulate health mixes using coconut flour and coconut milk powder, to determine the shelf life of health mixes, to find out the effect of health mixes on the growth and immune capacity and to compare the nutrient content and cost of formulated mixes with commercial health mixes available in the market.

PAC deferred the project for the time being and advised that the PI may present the proposal before the next PAC with details on the duration of the project, number of subjects, detailed costing of the project, institutional share, outcome anticipated, products proposed to be formulated, etc.. etc.

6. Establishment of coconut hybrid seedlings production unit under farmers participatory programme - Instructional Farm, College of Agriculture, Vellayani, Trivandrum at a total cost of Rs.183.69 lakhs

The project was submitted by Instructional Farm, College of Agriculture, Vellayani, Trivandrum. The objective of the project is large scale procurement of seednuts of dwarf varieties of coconut like CGD, COD, MYD and raising nursery and production of quality coconut seedlings for public distribution, production of TX D hybrids through breeding programme. [The following crosses are proposed: WCT X COD (Kera Sankara), WCT X MYD (Kera Sree)], production of DXT hybrids through breeding programme. (Following crosses are proposed: CODX WCT, MYD X WCT, CGD X WCT), and large scale production and distribution of good quality WCT and Komadan coconut seedlings.

PAC after detailed discussion authorised Chairman, Coconut Development Board to arrange a detailed discussion with the PI and finalise the proposal and place before PAC in the next meeting. The following aspects have to be discussed;

- i) Area of operation being root wilt affected, hybrid combinations should be RWD tolerant or resistant
- ii) Details about the costing, research materials, mobile diagnostic unit, revolving fund, etc. may be clarified.
- iii) Need for production of TxD hybrid to be reviewed.

The PI was advised to revise the project accordingly.

7. Modernization and technical up gradation of Desiccated Coconut powder unit - M/s.Sarvashakthi Agro Products, Udupi, Karnataka at a total cost of Rs.230 lakhs

The objective of the project is modernization and upgradation of the already established desiccated coconut powder unit to enhance the capacity from 60,000 to 1,00,000 coconuts per day for producing 1 MT desiccated coconut powder per day. The project was approved with an eligible cost of Rs.135.705 lakhs and eligible subsidy of Rs.20.66 lakhs as follows.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works (17660 sq ft)	80.00	30.00	7.50
Plant & Equipments	113.00	105.705	26.426
Goods carrier	20.38	-	-
Working Capital margin	16.62	-	-
TOTAL	230.00	135.705	Limited to 20.66 lakhs

Since the promoter has already availed a subsidy of Rs.29.34 lakhs under TMOC the maximum eligible subsidy was restricted to Rs.20.66 lakhs.

8. Setting up of desiccated coconut powder manufacturing unit -M/s. Sri Amritha Hitech Coco Food Products Export, Perundurai, Erode at a total cost of Rs.258.13 lakhs

The objective of the project is setting up of desiccated coconut powder manufacturing unit with a capacity to process 70,000 coconuts per day for producing 700 kg desiccated coconut powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	77.37	60.00	15.00
Plant & Equipments	149.00	145.62	36.41
Furniture & Office equipments	1.76	1.76	0.44
Preliminary & Pre op. expenses	15.00	2.43	0.60
Working Capital margin	15.00	-	-
TOTAL	258.13	209.81	Limited to 50 lakhs

Chairman suggested that the unit should adhere to ISO standards and other social security measures for the labourers etc. could be enforced, so as to make the unit with international quality standards. The PAC approved the project with maximum eligible subsidy of Rs.50.00 lakhs, with the above condition.

9. Setting up of Desiccated Coconut powder unit -M/s. SS Coconut Industries, Geejihally, Arsikera, Hassan Dist., Karnataka at a total cost of Rs.125.24 lakhs

The objective of the project is setting up of desiccated coconut powder manufacturing unit with a capacity to process 30,000 coconuts per day for producing 3 MT desiccated coconut powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works (5000sq m)	59.00	52.50	13.125
Plant & Equipments	60.49	50.24	12.561
Furniture Fixtures	0.25	0.25	0.062
Misce. deposits	0.50	-	-
Working Capital margin	5.00	-	-
TOTAL	125.24	102.99	25.748

The project was approved in principle subject to the condition that Blanching & Effluent Treatment Plants (ETP) to be incorporated in the project. Since the unit has already commenced production, PAC authorized Chairman to sanction the eligible subsidy based on the actual expenditure as and when all the required documents are submitted which may be got ratified in the next PAC.

10. Setting up of Desiccated Coconut Processing Industry - M/s. Sree Mukkanneshwari Coconut Industries, Tiptur Tq., Tumkur Dist, Karnataka at a total cost of Rs.63.40lakhs

The objective of the project is setting up of unit for production of desiccated coconut powder with a capacity to process 25000 nuts/ day for producing 2 MT desiccated coconut powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
Land	Own	-	-
Building & Civil works (8961 sq ft)	28.37	28.37	7.093
Plant & Equipments	23.83	21.21	5.302
Electrification	1.55	1.55	0.387
Electricity deposit	2.25	-	-
Interest during project implementation/ building construction	2.50	-	-
Miscellaneous Expenses & contingencies	2.40	-	-
Working Capital margin	2.50	-	-
TOTAL	63.40	51.13	12.782

The project was approved in principle subject to the conditions that 1) Blanching & Effluent Treatment Plants (ETP) to be incorporated in the project. 2) The financial parameters like IRR, BEP, NPR, DSCR etc to be worked out and revised project to be submitted. 3) If the unit has commenced production the actual expenditure and relevant document as per norms to be submitted. PAC authorized Chairman to sanction the eligible subsidy based on the actual expenditure as and when the documents are submitted which can be got ratified by the next PAC.

11. Setting up of desiccated coconut powder manufacturing unit - M/s.Tenguraja Coco products, Karkala, Uduppi, Karnataka at a total cost of Rs.169 lakhs

The objective of the project is to set up a unit for production of desiccated coconut powder with a capacity to process 24000 nuts per day for producing 2.4 MT desiccated coconut powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	45.00	45.00	11.25
Plant & Equipments	114.00	62.50	15.625
Preliminary & Pre op. expenses	4.00	1.63	0.408
Working Capital margin	6.00	-	-
TOTAL	169.00	109.13	27.282

It was clarified by the promoter that the whole system is fully automatic and all contact points are made of SS 304 materials. Hence the cost of machinery is high. The project was approved in principle. PAC authorized Chairman to sanction the eligible subsidy limiting the cost as per standard norms adopted under TMOC and got ratified in the next PAC meeting.

12. Expansion, upgradation and modernisation of Desiccated Coconut Powder and Setting up of new Virgin Coconut Oil manufacturing unit - M/s. Asha Coconut industries, Tirupur, Tumkur Dist, Karnataka at a total cost of Rs.207.52 lakhs

The objective of the project is expansion, up gradation and modernisation of desiccated coconut powder and establishment of new virgin coconut oil manufacturing unit with a capacity to process 70,000 nuts /day for desiccated coconut powder and 5,000 nuts per day for virgin coconut oil.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works (19697 sq ft)	30.25	30.25	7.563
Plant & Machinery	123.47	117.91	29.477
Technical know-how	0.50	0.50	0.125
Contingencies	9.50	-	-
Working Capital margin	43.80	-	-
TOTAL	207.52	148.66	37.165

The project was approved with a maximum eligible subsidy of Rs.37.165 lakhs subject to the condition that Effluent Treatment Plants (ETP) to be incorporated in the project.

13. Setting up of Virgin Coconut Oil and Desiccated coconut powder unit - M/s. Jaimatha Agro Oils, Vaishnavi Complex, Tiptur, Tumkur Dist, Karnataka at a total cost of Rs.246.20 lakhs

The objective of the project is setting up of virgin coconut oil and desiccated coconut powder unit with a capacity to process 69,000 coconut per day for producing 1320 Tons of desiccated coconut per year & 5000 L of virgin coconut oil per year.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	-	-	-
Building & Civil works (26000 sq ft)	98.00	90.00	22.50
Plant & Equipments	118.20	107.83	26.95
Working Capital margin	30.00	-	-
TOTAL	246.20	197.83	49.45

The project was approved in principle subject to the condition that a) Transfer of Technology certificate to be furnished. b) Since the unit has commenced production the eligible subsidy may be worked out based on the actual expenditure. c) Promoter should submit the documents as per norms. d) Comments of Regional Office Bangalore on desiccated coconut unit to be obtained. e) Blanching & Effluent Treatment Plants (ETP) to be incorporated in the project. PAC authorized Chairman to sanction the eligible subsidy subject to the above.

14. Setting up of Organic Virgin Coconut Oil unit - M/s. Honeybee Agro Corporation, Udumalpet, Tirupur Dist, Tamil Nadu at a total cost of Rs.530.00 lakhs

The objective of the project is setting up of Organic Virgin Coconut Oil unit with a capacity to process 1,00,000 coconuts per day for producing 6.5 T Virgin Coconut Oil per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	10.00	-	
Building & Civil works	185.00	-	
Plant & Equipments	202.30	200.30	
Technical know-how	0.55	0.55	
Electrification	30.00	-	
Furniture & office equipment	9.35	-	
Preliminary & Pre op. expenses	10.00	-	
Working Capital margin	70.00	-	
TOTAL	530.00	Limit to 200.00	Limited to 50 lakhs

The project was approved in principle. PAC authorized Chairman to sanction the eligible subsidy as and when the bank appraisal and term loan sanction letters are furnished.

15. Setting up of a Tender coconut water preservation and packaging unit - M/s. Yogic Foods Pvt. Ltd, Anupam Apartment, East Arjun Nagar, Delhi at a total cost of Rs.151.48 lakhs

The objective of the project is establishment of a tender coconut water preservation and packaging unit with a capacity to process 15000 tender coconuts per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Leased	-	-
Building & Civil works (2200 sq.ft.)	7.50	7.50	1.875
Clean Room	5.0	5.00	1.25
Plant & Machinery	105.74	89.93	22.483
Technical know-how	3.50	3.50	0.875
Electrical installation	5.03	5.03	1.257
Office Equipments	2.70	2.70	0.675
Contingencies	4.00	-	-
Preliminary & Pre op. expenses	5.00	-	-
Working Capital margin	13.01	-	-
TOTAL	151.48	113.66	28.415

The project was approved with a maximum eligible subsidy of Rs.28.415 lakhs. The unit should furnish a NOC from DFRL, Mysore for the machineries. Product should meet the APCC standards.

16. Setting up of Packed Tender coconut water unit - M/s. Global Associates, Manjeshwar, Badaje, Kasargod at a total cost of Rs.110.40 lakhs

The objective of the project is setting up of packed tender coconut water unit with a capacity to process 10,000 packed tender coconut water per day

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land (75 cents)	25.20	-	-
Plant & Equipments	36.23	35.73	8.93
Building & Civil works (521.8m ²)	34.72	34.72	8.68
Pre op. expenses	12.30	1.08	0.27
Working Capital margin	1.95	-	-
TOTAL	110.40	71.53	17.88

The project was approved in principle subject to the condition that the construction of unit to be of ISO/ HACCP standards. It was also suggested to undertake a feasibility study of similar units and raw material source, varietal study by the promoter before venturing into it. PAC authorized Chairman to sanction the eligible subsidy and to be ratified by the next PAC.

17. Manufacturing Carbonized shells lumps and granules - M/s. Vishnu Industries, Vinayakanagar, Tiptur at a total cost of Rs.34.57 lakhs

The objective of the project is manufacturing carbonized shells lumps and granules with a capacity to process 1700 Tons Carbonized shells & Granules per annum (3.7 T per day)

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	5.00	-	-
Building	14.50	14.50	3.625
Machinery	15.07	6.71	1.677
TOTAL	34.57	21.21	5.302

The project was approved with a maximum eligible subsidy of Rs.5.302 lakhs.

18. Setting up of a boda making unit - Sri. Sreejith, Kappummal House, Maruthonkara, Kavilumpara, Kozhikode at a total cost of Rs.5.50 lakhs

The objective of the project is setting up of a ball copra making unit with a capacity to process 50000 coconuts per year for producing 100 Q ball copra per year.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	4.60	4.60	1.15
Fixed assets- vessels, furniture, weighing machine etc	0.15	0.15	0.037
Preliminary & Pre op. expenses	0.05	0.048	0.012
Working Capital margin	0.70	-	-
TOTAL	5.50	4.79	1.199

The project was approved with a maximum eligible subsidy of Rs.1.199 lakhs.

19. Management of Disease affected Palm in Nagercoil District - Department of Agriculture, Tamilnadu at a total cost of Rs.57.318 lakhs

The project was submitted by Department of Agriculture, Tamilnadu. After detailed discussion, the PAC opined that the Board shall extend an assistance of Rs.500/ palm for cutting and removal of root wilt disease affected palms after obtaining report from Regional Office Chennai. The programme should be completed before March 2013; PAC asked the department to rework it and submit again.

20. Market Promotional Programme - Participation in 5th Indexpo Muscat-2012 at Oman International Exhibition Centre, Muscat

The objective of this prestigious project is to display, demonstrate and sell Indian products, goods and services to the fast developing market of Sultanate of Oman while further encouraging developing trade links between the two countries.

In addition to the dissemination of information, the exhibition provide the opportunity for creating consumer awareness on value added coconut products and widening the market for coconut products in traditional as well in non-traditional areas. With the association of manufacturers, the Board desires to conduct sales-cum-display of various coconut by-products during the exhibitions. PAC approved the proposal with a total sum of Rs.17,50,000/- subject to the approval of Govt. of India for participation of officials. PAC strongly suggested that manufactures should be exposed to international markets for export opportunities for Indian coconut products and also to learn about the export market needs.

Estimate of expenditure for the deputation of Board/Ministry officials in Indexpo Muscat-2012

Table-I

Sl. No	Particulars	In US \$	In Indian`
1	Rent for 27 sq.mtr Shell scheme stall@ 300 USD	8100	
2	Travel fare (100% for 2 officials)		300000
3	Per diem charges(2 officials) US\$ 75 per day as per diem and maximum limit to US\$ 150 per person for 5 days for hotel accommodation	2400	
4	Miscellaneous expenses for the procurement of exhibits		100000
5	Miscellaneous Expenses (for Business Meet/ publicity/ transportation etc	2000	
	Total	*12500	688812
			1088375
	Sub Total (a)		Or say 11,00,000

Estimate of expenditure for participation of entrepreneurs in Indexpo Muscat-2012

Table -II

Sl.No	Particulars	In US \$	In Indian
1	Travel Expenses (reimbursement of 50% of Air Fare) for 4 entrepreneurs		400000
2	Hotel Accommodation (50% of hotel rate) for 4 persons		100000
3	Reimbursement of freight charge (transportation of exhibits (100% on production of bill)		150000
	Sub Total (b)		650000
	Total a + b		1750000

Other Items

- 1. Project for 'Development of technology for preparation of particle boards & diversified products from tender coconut waste'- Central Coir Research Institute (CCRI), Kalavoor, Alleppey –Extension of project period***

PAC ratified the release of final installment of Rs.2.416 lakhs and approved the proposal to extend the project period upto 31.07.2013.

Other issues

- Mr. Appanna, General Manager, NABARD suggested that the Coconut Producers Federations can avail Producers Organizations Development Fund (PODF) through the Business Initiation Department (BID) of NABARD. Further he added that NABARD has a scheme to provide 50% grant-in-aid under Farmers Technology Transfer Fund (FTTF).
- Dr. M. Aravindakshan, former Chairman, CDB suggested that the outcome of the research studies sponsored under TMOC may be documented and published.
- It was also decided that the coconut processing units (Food products) should be insisted to obtain certification – FSSAI Authority of the concerned states.

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

Dr.K. Muralidharan
Director

List of Participants

S.No.	Name and address
A	MEMBERS
1	Shri. T.K. Jose IAS Chairman, Coconut Development Board
2	Dr. George. V. Thomas, Director, CPCRI, Kasaragod <u>Representative of</u> Assistant Director General (Plantation crops) Indian Council of Agriculture Research (ICAR), Krishi Anusandhan Bhavan –II, Pusa, New Delhi
3	Dr. M.Tamil Selvan, Additional Commissioner (Horticulture) Ministry of Agriculture, Govt. of India <u>Representative of</u> Horticulture Commissioner, Department of Agriculture & Cooperation Krishi Bhavan, New Delhi -110 001
4	Shri. C.P. Appanna, General Manager, Technical Services, 3 rd Floor, B Wing, NABARD, Plot No. C –24, G Block Badra –Kurla Complex, Post Box No.8121, Bombay <u>Representative of</u> Chief General Manager, Technical Services, Investment Credit Department, 3 rd Floor, B Wing, NABARD, Plot No. C –24, G Block Badra –Kurla Complex, Post Box No.8121, Bombay
5	Shri. M.M. Jose, Senior Marketing Development Officer, Directorate of Marketing & Inspection, Kochi, 6th floor, A Block, Agmark, Kendriya Bhavan, Kakkand <u>Representative of</u> Joint Secretary & Agricultural Marketing Adviser to Govt. of India, Room No.237, Krishi Bhavan, New Delhi
6	Shri.Sugata Ghose, Chief Coconut Development Officer i/c., Coconut Development Board, Kochi
B	EXPERTS
7	Dr.M.Aravindakshan Co-ordinator, Amritha School of Environmental Studies, Ettimedai, Coimbatore

8	Prof. D.M. Vasudevan, MD, FRC Path, Co-investigator, Amrita School of Medicine, Amritha Institute of Medical Sciences, Kochi
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C	OTHERS
9	Dr. K. Muralidharan, Director Coconut Development Board, Kochi
10	Dr. A.K.Nandi, Secretary, Coconut Development Board, Kochi
11	Shri. Sreekumar Poduval Junior Processing Engineer, CDB, Kochi
12	Shri. P.Sabareenathan, Finance Officer Coconut Development Board, Kochi
13	Smt. Jayashree A , Senior Technical Officer Coconut Development Board, Kochi