



GOVERNMENT OF KERALA

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PROCEEDINGS OF THE INTERNATIONAL CONFERENCE AND EXPOSITION ON COCONUT DEVELOPMENT

CONFERENCE & EXPO 2019 KERALA

November 2 and 3, 2019 The Gateway Hotel, Kozhikode

NOVEMBER 2 AND 3, 2019

KOZHIKODE

Towards Industry-Led Growth

KERALA STATE PLANNING BOARD THIRUVANANTHAPURAM JUNE 2020



The Government of Kerala cordially invites you to the International Exposition and Conference on Coconut Development. The event is scheduled on **November 2 and 3, 2019 at The Gateway Hotel, Kozhikode, Kerala.**

The Conference will raise issues of modern coconut farming, the recent technological developments in value addition, the contemporary trade regime, and institutional arrangements for coconut development. It will bring together experience and expertise from international community and will draw on experience from Kerala and other parts of India. It will provide important exposure to the experience of scientists and policy makers from leading coconut producing countries of the world. The Exposition will offer a platform for processors, manufacturers, suppliers, fabricators, and entrepreneurs to showcase their products and services. It will serve as a Business-to-Business (B2B) meet for local, national and international buyers, processors, and suppliers. Together, the Exposition and the Conference will provide a platform for interaction between farmers, scientists, industrial entrepreneurs, producers' organisations, and Government to meet and discuss new technologies, best practices, research results, current market trends, and opportunities for primary production and value addition.

We look forward to your participation in the Conference and Exposition.

Dr K Ellangovan IAS

Principal Secretary, Department of Industries and Commerce, Government of Kerala

Dr A Jayathilak IAS

Member Secretary, Kerala State Planning Board and Principal Secretary, Department of Planning and Economic Affairs, Government of Kerala



Preface

The Government of Kerala and the Coconut Development Board, Government of India, jointly organised a two-day International Conference and Exposition on Coconut Development on November 2 and 3, 2019 at The Gateway Hotel, Kozhikode. The idea of the Conference was suggested by Shri Pinarayi Vijayan, Chief Minister, Government of Kerala in 2018. Kerala was affected by the worst floods of the century in August 2018 and we had to postpone this event. We rescheduled the event to August 17 and 18, 2019. However, the State faced a second extreme rainfall that year and we again had to postpone the event to November 2 and 3, 2019.

All our speakers and participants have stood by us and accepted our invitation every time we rescheduled the event. We are grateful to all speakers and participants in the Conference.

The objective of the Conference was to share experiences and expertise from India and other parts of the world. The Conference sought to study scientific and sustainable methods of improving productivity and income, strategies for industrial led growth, and establishing a new technological basis for that growth.

The Conference and Expo received a message of greetings and advice from Professor M S Swaminathan through a video message. We were honoured to have Dr Uron N Salum, Executive Director of International Coconut Community, the leading organisation in the field of coconut, among us. We had speakers from China, the Philippines, Malaysia, Indonesia, Vietnam, Thailand, Australia, and Sri Lanka. Up-to-date knowledge about the possibilities in production and value addition was shared. The international delegates played an important part in all proceedings. We had speakers and experts from national institutions, Government Departments and research organisations.

The event was marked by the enthusiastic participation of hundreds of delegates. Every participant was motivated by a keen interest in modern developments in the field in different parts of the world. The participants included academics, research scientists, farmers, policy-makers, entrepreneurs, representatives of farmer-producer organisations, representatives of trade and industry organisations, representatives of women's organisations, students, and others.

In preparing for the Conference, we consulted farmers, Farmer Producer Organisations, coconut related academicians, coconut related policy makers and coconut-based entrepreneurs. They have

all given their time and made great efforts as have the Ministers of the departments of Industry, Agriculture, and Coir, the Coconut Development Board, the Kerala Agricultural University, and the Central Plantation Crop Research Institute.

I thank all the organisers of the event. KSIDC played an invaluable role in making the arrangements for the Conference and Expo. KINFRA, K-BIP, DIC and Kerala Startup Mission rendered valuable support. I would like to thank the Members, Member Secretary, and all the officers from the State Planning Board who played an important role in making the event a success. I also thank all rapporteurs from Kerala Agricultural University and officers of State Planning Board who have helped in drafting the proceedings of the Conference.

V K Ramachandran June 9, 2020

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The Government of Kerala and the Coconut Development Board, Government of India, jointly organised a two-day International Conference and Exposition on Coconut Development on November 2 and 3, 2019 at The Gateway Hotel, Kozhikode. The objective of the conference and exposition was to put Kerala on an enhanced and sustained growth path in coconut sector through industry led growth in primary and secondary processing.

The conference was organised by the State Planning Board in collaboration with the Kerala State Industrial Development Corporation. The Exposition was organised by the Kerala State Industrial Development Corporation. As part of the event, a National Coconut Challenge was held by the Kerala Start-up Mission to encourage innovative ideas in the sector.

The idea of the Conference and Exposition was suggested by Hon'ble Chief Minister in 2017. The exposition was earlier scheduled to be held in 2018. However, the programme had to be postponed due to floods and landslides in August, 2018.

Brief Summary of the Event

There were 10 sessions in the conference including inaugural and concluding session. There were speakers from countries such as China, The Philippines, Malaysia, Indonesia, Vietnam, Thailand, Australia, and Sri Lanka. The event had more than 25 paper presentations and experience sharing session by around 20 farmers and entrepreneurs. Around 400-500 persons comprising entrepreneurs, farmers, agricultural scientists, extension workers, social scientists, researchers, experts, representatives of mass organisations and NGOs, industry representatives, students, and policy-makers participated in the Exposition and Conference.

A brief description of the sessions is detailed below. Detailed description is covered in subsequent sections of this Report.

International Experience

The main speakers in the session on international experience were Dr Qiuyu Xia, Centre for Product Processing Research, Coconut Research Institute of Chinese Academy of Tropical Agricultural Sciences, China; Dr Edna A Anit, Crop Research Division, Philippine Council for Agriculture, Aquatic and Natural Resource Research and Development, The Philippines; Mr Sentoor Kumeran Govindasamy, Senior scientist, Plant Breeding Industrial Crop Program, Crops and Soil science Research Center, Malaysian Agricultural Research and Development Institute, Malaysia and Dr Normansyah Syahruddin, Deputy Director for Market Development for Estate Crops Products, Directorate General of Estate Crops, Indonesia. The speakers presented position papers on policies and programmes for sustained development in the coconut sector in their respective countries.

Coir Session

Dr Thomas Isaac, Minister for Finance and Coir presented his views on reviving the coir sector in Kerala. The other main speaker in the session was Mr Ajit Mathai, founding partner, mByom Consulting and Management Services LLP.

Kerala Scenario

The main speakers in the session on Kerala scenario were Ms Aarathi L R, IES, (Special Officer, WTO Cell), Department of Agriculture; Mr Sanjay M Kaul IAS, Managing Director, Kerala State Industrial Development Corporation; Dr R Ramakumar, Member and Mr S S Nagesh, Chief and Dr Jayan Jose Thomas, Member – officials from the Kerala State Planning Board and Dr Jayasekhar S, Central Plantation Crops Research Institute, Kasargod, Kerala. This session highlighted the status of the State in terms of production, productivity, and value addition.

Industrial Investment and Value Addition

The session on industrial investment and value addition was chaired by Dr Jayan Jose Thomas, Kerala State Planning Board. The main speakers in the session were Ms Nguyen Thi Kim Thanh, Vietnam Coconut Association, Vietnam; Ms Peynoot Naka, Conservation and Development of Coconut Oil of Thailand Forum, Thailand; Mr V Anandkumar, Tetra Park India Pvt Ltd Bangalore; Dr R K Sharma, Defence Food Research Laboratory, Mysuru and Vice Chancellor, Saveetha Institute of Medical and Technical Sciences, Chennai; Dr K P Sudheer, Kerala Agricultural University, Thrissur; Dr K B Hebbar, Central Plantation Crops Research Institute, Kasargod and Dr James J Nedumpara, Centre for International Trade and Investment Law and Indian Institute of Foreign Trade, New Delhi. They touched upon various aspects and prospects of value addition in the coconut sector.

Prospects for Productivity and Profitability

The main speakers in the session on prospects for productivity and profitability were Ms G Jayalakshmi IAS, Coconut Development Board, Kochi; Dr Steve W Adkins, School of Agriculture and Food Science, University of Queensland, Australia; Dr Vijitha R M Vidhanaarachchi and Dr Priyanthie Fernando, Coconut Research Institute, Sri Lanka; Dr Regi Jacob Thomas, Central Plantation Crops Research Institute, Kayamkulam; Dr V Niral and Dr C Thamban, Central Plantation Crop Research Institute, Kasargod; and Dr Jacob John, Kerala Agricultural University, Karamana. The session discussed the main issues concerning productivity and profitability in the coconut sector.

Challenges and Opportunities in Coconut Sector

The main speakers in this session were Dr P Indiradevi, Kerala Agricultural University, Thrissur; Dr Jiju P Alex, Kerala Agricultural University, Thrissur; Dr Ravi Bhat, Central Plantation Crops Research Institute, Kasaragod; Dr K M Nair, National Bureau of Soil Survey and Land Use Planning,Bangalore; Dr K M Sreekumar, Kerala Agricultural University, Thrissur; Ms Mary Thomas, Department of Agriculture Development and Farmers Welfare, Government of Kerala; Ms Liji E M and Mr M Kunhammad Master, Subhicsha, Kozhikode.

Experience Sharing Session

The Conference also provided a platform for interaction between industrial entrepreneurs, farmers, scientists, producers' organisations, and Government on new technologies, best practices, research results, current market trends, and opportunities for primary production and

value addition. There were two experience sharing sessions to facilitate this exchange of ideas. The speakers in experience sharing on coconut farming were Mr OVR Somasundaram, Mr Raam Mohan, Mr M M Dominic, Mr C M Muhammad, Mr Malapattanam Prabhakaran, Mr James E S and Ms Subharma. The main speakers in experience sharing on value addition and industrial production were Mr Paul Francis, Mr Ubais Ali, Mr Murtaza Lukmanjee, Mr Rajarathinam, Mr K C Sreedaran Nambiar, Mr Afsath K P, Mr Sunny George, and Prof. Sasindran E. *Exposition*

The Exposition showcased different coconut based products and processing technologies. It also served as a platform for Business-to-Business Meet (B2B) for local buyers and national and international buyers, processors, and suppliers. There were seventy stalls in the exposition which had products ranging from coconut oil to coir based products.

National Coconut Challenge

The National Coconut Challenge was conducted by the Kerala Startup Mission. The contest received 57 responses, mostly from within the State. Innovative ideas were invited to provide solution for following issues - ideas to simplify the task of farmers in the field; ideas to detect and control pest, disease and nutrient deficiency; value addition, product diversification and by-product utilization; procurement and marketing models of coconut and coconut-based products; and ideas for effective utilization of neglected coconut palms. The applications were evaluated by a panel of experts. 14 applicants were shortlisted to present their ideas at the Conference. The ideas were presented before a panel of judges on November 2, 2019.

The idea of 'Kera Harvester', an unmanned device which can harvest coconuts and other essentials and controlled using a joystick from ground, won the first prize. Refinement and commercialization of modified ground pollination technique in coconut won the second prize. The third prize was awarded for utilisations of virgin coconut oil production waste to make a nutritious drink.

Sessions of the Conference

DAY 1: NOVEMBER 2, 2019

1. Inaugural Session

The conference opened with the Inaugural Session on November 2, 2019. Shri E P Jayarajan, Hon'ble Minister for Industries, Sports, and Youth Affairs delivered the Welcome and Presidential address. He welcomed Hon'ble Chief Minister, Shri Pinarayi Vijayan, Dr.Uron N Salum, Executive Director, International Coconut Community, Indonesia, Hon'ble Minister for Finance and Coir, Dr T M Thomas Isaac, Hon'ble Minister for Agriculture, Shri V S Sunil Kumar, Shri M K Raghavan, Member of Parliament, Kozhikode, Shri A Pradeep Kumar, Member of Legislative Assembly, Kozhikode, Ms G Jayalakshmi IAS, Chairperson, Coconut Development Board, Cochin, and all experts and dignitaries present in the Conference. In his welcome address, Hon'ble Minister stated that the conference aims to put Kerala on a sustained growth path for coconut. It aims to learn from the best practices in the field. Currently, a regression is observed in coconut industry. The sector should be reoriented for increasing production and productivity. During the past few years, a withdrawal has been observed from the coconut industry, especially of the young generation. Hence, the conference should act as a platform for a fruitful interaction between industries, scientists, academicians, farmers, entrepreneurs to improve the current status of coconut sector.

Dr V K Ramachandran, Vice Chairperson, Kerala State Planning Board, presented the theme of the conference. It was the idea of Hon'ble Chief Minister to conduct a major conference on coconut development to preserve our heritage in the sector. The Government tried to conduct the conference twice, once in 2018 and in August 2019. But due to heavy rains and floods, the conference was postponed. It was an honour to have dignitaries from different countries, especially Dr Uron N Salum, who represents the world community of coconut growers. Vice Chairperson emphasised that the objective of the conference is to learn from the expertise and experience of eminent dignitaries in the sector. The conference seeks to encourage value addition in coconut. It also aims to enhance production and productivity of coconut and increase the income of the farming community. The conference was inaugurated by the Hon'ble Chief Minister, Shri Pinarayi Vijayan. In his inaugural address, Hon'ble Chief Minister stated that Kerala's coconut sector is currently facing a strong challenge in terms of productivity and price of its various products. So, the objective should be to enhance and sustain the growth of coconut sector through primary and secondary processing. He pointed out that Kerala is currently having an industrial friendly atmosphere and the Government envisages to encourage more startups, establish agro-parks and strengthen market linkages and value addition in the sector. The Government has established a "Coconut Development Council" to increase the area and productivity in the State and sustain high income of farmers through value addition. Government has initiated a scheme of planting 75 good quality coconut seedlings per ward and has currently covered 500 panchayats. This venture will be continued in the coming years. He emphasised that the import of palm oil has created a threat in the supply of coconut oil. The trade policies are adversely affecting the agriculture sector. The conference should address development and policy issues, explore more opportunities to improve the sector and to make Kerala a leader in coconut sector in terms of production and income to farmers.

A video message from Dr M S Swaminathan, Founder Chairperson of M S Swaminathan Research Foundation, Chennai was played in which he stated that though coconut is resilient to tsunami and cyclones, the pest and disease problems, especially root wilt in Kerala is drastically affecting the production of the crop. He added that the concept of "Three Dimensional Farming" or "Multiple Cropping System" should be efficiently utilised in this sector to take the maximum advantage of soil, water and air. He wished that the conference would act as a platform to provide a right direction for quality research in coconut sector.

Dr Uron N Salum, Executive Director, International Coconut Community, Indonesia, delivered the keynote address and proposed to gather our collective wisdom for industry-led growth. Dr Salum pointed out that there is a need to establish a strong coconut sector all over the world and currently we can see a major change in the world called, *Coconut Revolution or Coconut Come back*. He pointed out that coconut is a "small man's crop" and coconut based products like coconut water which is gaining huge popularity as a 'beverage', coconut sugar, a product which can grab good job opportunities and coconut virgin oil have very good export potential. He suggested projecting the health benefit of coconut oil. He also added that value added coconut products are gaining popularity and the industry, which currently stands fragmented should become united to ensure that fair price is paid to the famers. He highlighted that the conference can be an appropriate opportunity where all can join hands to make the coconut industry a leading sector through industrialisation.

Dr T M Thomas Isaac, Minister for Finance and Coir, delivered the special address and pointed that during 1950s, 75 to 80 per cent of the gross domestic product of Kerala came from coconut and coir related industries. Presently, this has reduced to 30 to 35 per cent. He identified two sets of issues in the coconut sector – reduction in productivity and gross cropped area, and lack of value addition. He highlighted that the share of by-products of coconut which was 40 per cent earlier has now shrunk to 10 per cent. This trend needs to be reversed. The revival of the by-product industry is possible through product diversification. Further he suggested that coconut husk can be a better substitute for wood.

Mr V S Sunil Kumar, Minister for Agriculture, delivered a special address and said that the production and productivity of coconut showed a declining trend from 1950s to 2019. For the integrated development of coconut, Government of Kerala has started the "State Coconut Council" to function in a mission mode. He pointed out that two crore good quality coconut seedlings are aimed to be planted within the next 10 years using WCT, hybrid and dwarf palm seedlings in the ratio of 60:20:20. He suggested support for farmers and entrepreneurs who have started "Farmer Producer Organisations" for value addition in coconut sector. The value addition and industrialisation should ultimately benefit the farmers of Kerala. He also emphasised that "happiness of farmers" is the most important factor as far as the industry is concerned.

Mr M K Raghavan, Member of Parliament, Kozhikode delivered a special address and pointed out that the aim of the conference should be to increase production and productivity as well as to reduce the cost of cultivation. He highlighted that multiple cropping needs to be conceptualised and the scope of value addition need to be exploited to increase the income of farmers. He emphasised the import of palm oil need to be reduced so as to assure better marketability of coconut oil.

Mr A Pradeep Kumar, Member of Legislative Assembly, Kozhikode has rated the conference as a sincere and important effort on the part of the Government of Kerala and the State Planning Board. He pointed out that the conference is very effective and most important way forward to improve the coconut sector.

Ms G Jayalakshmi IAS, Chairperson, Coconut Development Board, delivered a special address and in her speech she pointed out that the conference is a learning experience to bring better technologies from all over the world and to expand the area and production as well as to exploit the scope of value addition.

Dr A Jayathilak IAS, Member Secretary, KSPB and Principal Secretary, Department of Planning and Economic Affairs expressed his gratitude to all the dignitaries and delegates who took effort to attend the conference. He also extended his gratitude to the media and all other stakeholders of the programme.

2. Plenary Session 1: International Experience

Chair: Ms G Jayalakshmi IAS, Chairperson, Coconut Development Board, Kochi

Current Coconut Processing Technology and Coconut Products of China, Dr Qiuyu Xia, China

Dr Qiuyu Xia presented the paper on "Current Coconut Processing Technology and Coconut Products of China". This presentation covered the current scenario, challenges, coconut processing technologies and products in China.

The major challenge in coconut processing industry in China is shortage in supply of coconuts. As a result, the industry depends on imports. The main product imported is dehusked coconut. Hainan province in China produces more than 90 per cent of the country's coconut production. China has a complete coconut processing industry chain, leading to zero waste of coconut. From 2012 to 2016, the overall growth rate of China's vegetable protein beverage market was 6.3 per cent. The market share of coconut juice beverage (21.6 per cent in 2015) is China's second largest in vegetable protein beverage consumption category.

The three provinces with the largest number of coconut manufacturing enterprises are Hainan, Guangdong and Fujian. Among the three provinces, the coconut processing industries is mainly concentrated in Hainan province with around 300 coconut processing units. The coconut processing industries include food and non-food processing industries. Food processing industries include tender coconut, coconut cream, coconut milk, coconut water, coconut powder, coconut jelly, coconut cake, coconut biscuit, coconut chip, coconut candy, coconut drinks, nata de coco, coconut sauce, coconut oil, coconut rice, and coconut stew. Non-food processing industries include cultivation substrate of coconut fibre, coconut coir mattress, door mat, flower basket, coconut fibre, non-edible coconut oil, coconut shell charcoal, activated carbon, coconut oil powder, coconut green plant, trees carved and beauty products.

There are two major forms of coconut factory in China, one is professional factory and the other is family workshop. Extensive research work has been done for Virgin Coconut Oil (VCO) processing, quality control, characterisation and product R&D of lipid. VCO capsules have been produced. Even though China occupies only 2.7 per cent of world area and 0.51 per cent of world production in coconut, they are far ahead in coconut processing technology and industries.

Philippines Coconut Industry- Strategic S&T Programme-Reinvigorating the Productivity of the Tree of Life, Dr Edna A Anit, The Philippines

Dr Edna A Anit, Officer in charge, Crop Research Division, Philippine Council for Agriculture, Aquatic and Natural Resource Research and Development, The Philippines, presented a paper titled 'Philippines Coconut Industry- Strategic S&T Programme-Reinvigorating the Productivity of the Tree of Life'.

The main issues and challenges confronting the Philippine coconut industry are

- 1. Low production and decreasing farm productivity
- 2. Limited viable village-level integrated processing technologies.
- 3. Non-competitive products globally and low domestic utilisation
- 4. Limited investment for R&D on product development and market promotion.

To address the above issues there is a need for quality planting materials.

- a. Replant to augment the rehabilitation of typhoon damaged, coconut scale insect-infected and senile trees.
- b. Meet the demand of raw materials for high value coconut products.
- c. National hybridisation programme for high value coconut products.
- d. Coconut fertilization project, the objective is to increase production by 25 to 50 per cent and increase farmer's income. The components used is agricultural grade salt (AGS) and salt and coir based organic fertiliser (CBOF).
- e. Intercropping with high value crops such as pineapple, cocoa and banana.
- f. A cooperative enterprise development project called "KAANIB" (an acronym which means "Farm Bounty in coconut farms is linked to Community Progress) has been started to encourage coconut farmers in production of high value coconut products and increase farm income by 50 per cent, ensure food security and generate jobs through skill training.

The DOST-PCAARRD ISP for coconut is an initiative which aims to increase productivity (46 to 50 nuts per tree per year), improve quality planting materials, reduce pest infestation, and increase farmers' income. The following technologies have been used to increase productivity of coconut.

- 1. Integrated pest management strategies
- 2. Production of more planting materials of high yielding varieties/ hybrids through somatic embryogenesis seed garden establishment.
- 3. Crop management practices
- 4. Gene markers for high yield, quality copra-oil and by-products, and pest resistance.

In response to Coconut Scale Insect (CSI) Outbreak, DOST-PCAARRD funded researches undertaken by PCA and University of The Phillipines Los Banos (UPLB) scientists on the effective application method of systematic insecticides registered for other crops, use of organic pesticides and search for effective bio- control agents. Currently, a total of 15 projects are funded amounting to PhP 128.3 Million worth of investment on CSI R&D initiatives.

Policy Recommendations:

- 1. Community-based direct copra marketing under the Coco-Hub programme.
- Implementation of the biofuels Act of 2013 to increase CME use for biofuels (from B2 to B5) starting with government vehicles.
- 3. Support coconut farmers cooperatives by providing shared service facilities such as warehouses and transport facilities through the coco-hub program of PCA.
- 4. Extend soft loans through funding from the coco levy law for operating capital or from other funding agencies.
- 5. Increase the domestic utilisation of coconut oil particularly for food use.
- 6. Establishment of coconut oil storage tanks in government-owned oil mills.
- 7. Establishment of Coconut Oil Depot in the Philippines.
- 8. Increase export of fresh young coconut (buko).
- 9. Direct marketing scheme of coconut farmers cooperatives and SME coco-based manufacturers.

Long term strategies suggested are

a. Promotion of integrated processing at farm level with the support of private sectors.

- b. Development and promotion of emerging high-value products and processes.
- c. High investment on R&D and refocus directions with higher investment on product development.
- d. Establishment of agro-industrial processing with agri-venture arrangements.
- e. Converge with the local executives for improvement of infrastructures and farm to market road networks.

A vibrant coconut industry that is globally competitive and provides gains to its stakeholders; provides maximum benefits to the small coconut farmers and contributes to the economy can be achieved in the Philippines through unified efforts.

Policies and Programmes for Sustained Development in the Coconut Sector in Malaysia, Mr. Sentoor Kumeran Govindasamy, Malaysia

Mr. Sentoor Kumeran Govindasamy, Senior Scientist, Plant Breeding Industrial Crop Programme, Crops and Soil Science Research Centre, Malaysian Agricultural Research and Development Institute, Malaysia, presented a paper on 'Policies and Programmes for Sustained Development in the Coconut Sector in Malaysia'.

Coconut is a traditional crop in Malaysia and 4th industrial crop after Oil Palm, Rubber and Paddy. Around 70,000 families depend on coconut cultivation. It plays a significant role in the socio-economic development of the rural population. Coconut cultivation in Malaysia includes both small holder farms (94.4 per cent) and estate (5.6 per cent). Over the years, from 2012 to 2017, percentage of coconut planted areas has decreased by 17.9 per cent mainly due to competition from oil palm. Further, coconut production has also declined by 11.8 per cent from 2014 to 2017. The main challenges faced in coconut sector in Malaysia are the internal competition from oil palm, shift to food crops and changes in land use. Malaysia has developed hybrid coconut named MATAG and MAWA. There are several coconut industrial development agencies involved in coconut development in Malaysia such as Jabatan Pertanian, Moa Incorporated, Malaysian Quarantine and Inspection Services (MAQIS), Federal Agricultural Marketing Authority (FAMA), and Malaysian Agricultural Research and Development Institute (MARDI).

The main issues and constraints related to coconut production and farm productivity are

- Aging farmers and senile coconut palms.
- Budget constraints.
- Competition from other commodities.
- Limited planting materials and supply of seedling

Government has introduced National Agro-food Policy 2011-2020 focusing on replanting and rehabilitation. This policy tries to achieve one billion coconuts by year 2020, ensure food sufficiency and safety, reducing imports and increase farm incomes. Malaysia has declared coconut as a "new wealth source."

Government of Malaysia has launched the Coconut Industry Project Development Model which works along with small holders, small entrepreneurs, private limited company, government link company, Department of agriculture and Bumiputera Nursery Entrepreneur for seedling production. In new planting and replanting scheme, assistance is given to small farmers for four years. The assistance includes basic farm infrastructure development, land clearing, and seedling and agriculture inputs. In rehabilitation scheme, three years assistance is provided to small holder farmers for three years. It includes assistance to upgrade farm infrastructure and procure agriculture inputs. There is a scheme under which sick coconut gardens are brought from private holders and regenerated. In project implementation, Malaysia has adopted two approaches, coconut area development and seed garden consolidation. The Government of Malaysia is exploring business opportunities in seedling production and retaining the planted area.

Coconut Development in Indonesia: Strategies and Sustained Growth, Dr Normansyah Syahruddin, Indonesia

The final paper of the session on "Coconut Development in Indonesia: Strategies and Sustained Growth" was presented by Dr. Normansyah Syahruddin, Deputy Director for Market Development for Estate Crops Products, Directorate General of Estate Crops, Indonesia.

Coconut as an estate crop contributes to economic growth. Indonesia contributes 27 per cent to world coconut production. The growth rate of export of estate crops commodities during 2014-17 is 6.33 per cent. The major issues faced in coconut cultivation in Indonesia are old unproductive farms, land use change, seeds and nursery, low productivity, pest and disease, lack of partnership, lack of downstream industries; mostly raw materials. Coconut export from Indonesia is mainly to Thailand, China, Malaysia, and USA. The major issue faced by the Indonesian coconut industry is low level of product diversification. Copra is the largest traded item. Different policies for the sustainable coconut development are being implemented in Indonesia. It includes seedling nurseries, increasing productivity, replanting, intercropping, setting up farmers group and partnership, and coconut downstream development.

The Government introduced various policies such as BUN500, agricultural mechanisation, cluster-based development, comparative and competitive advantage, strengthening farmers group, capacity building, financial access and market access and promotion. The details of the schemes are listed as follows.

BUN500

- Seed sufficiency programme for Rubber, Clove, Pepper, Coconut, Nutmeg, Coffee, Cocoa, Tea, Cashew, and Cane.
- Establishing modern nurseries.
- Smallholders seeds sustained project

Agricultural Mechanisation

- Agricultural machineries and tools
- Water harvesting and irrigation systems
- Agricultural digitalisation
- Post-harvest and processing equipments

Cluster-based development

- Development of commodities in areas with appropriate agro-ecosystem conditions
- Implementing GAP and Pest disease management
- Agro-tourism

To create comparative and competitive advantage, downstream industry development programme was started.

Market access and promotion includes promoting farmers product in the global market, ensure that products meet the required market standards, facilitate farmers in the business matching and organise exhibition and promotional events. Indonesia has received the geographical indication for coconut sugar.

The Government of Indonesia aims to develop Indonesia as the coconut centre of the world. The focus is on developing seed/planting material sufficiency with traceability and originality. Seed certification is the focus in coconut development. The Government also lays emphasis on downstream development with diversified value added products.

3. Plenary Session 2: Coir

Chair: Ms Mridul Eapen, Member, State Planning Board

Hon' ble Minister for Finance, Dr T M Thomas Isaac was the main speaker in this session. The Minister stated that there is a flavour of new technologies and opportunities in the coir sector and new products are developing in the sector. He stressed the importance of maintaining a cooperative structure in the coir industry and also pointed out the need to ensure protection of all the existing workers in the industry. All sectors in coir industry have been opened to private entrepreneurs. The effort of the Government is to develop domestic coir based markets in India. He stressed the importance of intensified mechanisation and planning to establish new infrastructure and processing units. The Government has initiated efforts for second reorganisation of the coir industry. Prior to reorganisation, the production of yarn was 65,000 quintal. This has increased to 2 lakh quintals and the target is to reach 5 lakh quintals. There is a 25 per cent increase in husk collection. Processing of 50 per cent of husk was carried out within the State. Major portion of yarn will be converted into coir and geotextiles.

Shri P. Venugopal IAS, Secretary, Coir department described the second reorganisation efforts undertaken by Government of Kerala in coir industry. The State provides 50 per cent subsidy for defibering mills. As a result, coir industry has achieved tremendous progress during last three years. Coir industry has now become a profitable industry. As part of the reorganisation efforts, 100 defibering mills have been established. The defibering mills, which can process 1,000 husks per hour, ensures Rs 5,000 per day to the entrepreneur.

Mr Ajith Mathai presented the paper on the aggregation led model which has helped in the revival of coir sector in Kerala. The profitability of defibering units has increased. Within a six month period, defibering unit made a profit of Rs 7404 per shift. This was achieved through linkages with pith and short-fibre utilisation. An app has been developed to connect farmers and buyers. Credit facility is provided for the processing units through cooperative banks. Both push and pull factors influence the profitability of defibering units. Reliable supply of husk and professional technical support to defibering unit are the push factors for the profitable defibering unit. The pull factors are domestic retail and industrial marketing.

Future scope of coir industry lies in following areas.

- 1. Geotextiles
- 2. Solid waste management
- 3. Composites
- 4. Sound insulation
- 5. Heat insulation
- 6. Filter solutions

Discussion:

Mr Anandakrishnan, Managing Partner of Anandan enterprise enquired about the withstanding heat capacity of insulations made up of coir. Director, National Coir Research and Management Institute (NCRMI) replied that depending upon the use, it can withstand heat upto 450 degree C.

Dr Bhaskaran raised the issue of wastage of tender coconut husk and the future of golden fibre developed by National Institute of Inter-disciplinary Science and Technology (NIIST). Director NCRMI answered that since the fibre of tender coconut is very soft, it cannot be used for making fibre, but we can convert either into powder for making binder less board or it can be converted into organic manure. The demand of white fibre is high compared to golden fibre.

Hon'ble Minister for Finance announced that a plant for producing small composite board will commence within two months on pilot basis and if that is successful, there is a chance for large scale production of the same.

The need for promoting the production of coirpith was emphasised as there is a huge demand of the product in the market. Through mechanical defibering, Tamil Nadu achieved a comparative advantage over other Indian states in the production of coirpith, which earn them an export unit price that is equal to the price of coir.

Dr Anoop from Kerala Agricultural University mentioned about "Kera wood". Several wood based products were developed under the scheme but now the project is not in operation. He suggested that the available infrastructural facilities could be utilised.

The Finance minister invited the attention of international speakers to share their experience in this field. Representative from Indonesia opined that the use of coconut wood is limited to furniture, but it is highly expensive. Representative from Australia remarked that only in Fiji and Solomon Island, some value addition in coconut is observed.

4. Plenary Session 3: Kerala Scenario

Chair: Ms Mridul Eapen, Member, State Planning Board

Status Paper on Coconut Production in Kerala, Shri D K Singh IAS, Presented by Ms Aarathi L R, IES

About 38 per cent of total cultivated area in the country is in Kerala. Coconut is the most important crop in Kerala in terms of area, income and employment. It is the main source of income for more than 3.5 million families in the State. There is an increasing trend in the area and production of coconut till 2015, and thereafter it has started declining. At present, coconut is cultivated in 7.8 lakh hectare area. District wise area, production, productivity data shows that the production is highest in Malappuram followed by Kozhikode. The productivity is highest in Kasaragod. There is a decreasing trend in production in southern districts compared to northern districts. The reason is attributed to the extent of irrigated area in northern districts. The decrease in yield in southern districts is due to the incidence of root wilt disease and low irrigated area. There are immense opportunities in the coconut sector as it permits intercropping with a wide variety of crops, provides scope for integrated mixed farming, increasing demand for coir and coir products and good prospects for coconut holding based farm tourism. The major way forward in this sector includes replanting, quality planting material production, integrated pest management, integrated nutrient management, value addition, and agro processing.

Facilitating Industrial Investment in Coconut Sector in Kerala, Mr Sanjay M Kaul LAS

The presentation emphasised the reasons to invest in Kerala. The State offers time bound clearances and approvals for setting up an industry. There are ready to occupy industrial plots and standard designed factory, handholding and mentoring support and project financing with attractive rates of interest. Under ease of doing business, transparent, time bound and transformatory clearances are given. There is an online single window clearance mechanism. Infrastructure facilities are offered by the State. There are customised loans with interest in the range of 8.4 to 10.4 per cent. Seed funding is offered to industrial units.

Coconut Production in Kerala, Dr R Ramakumar and Mr S S Nagesh

The paper examined the performance of coconut, major challenges and major policy responses. Kerala's productivity has always been less than the national average and Kerala's share in national production of coconut has fallen over the years. By comparing the data for the period 2007-08 and 2016-17, the number of districts with less than 5,000 nuts per hectare increased from 2 to 3 in Kerala. None of the districts in the state has more than 10,000 nuts per hectare.

The major agrarian constraints are the small size of farms, high percentage of workers in the non-agricultural sectors, and absentee land ownership. Production constraints include predominance of old and senile palms, poor spread of hybrid varieties, poor attention to soil, and high cost of labour and shortage of climbing labour. There are constraints related to value addition. 95 per cent of value addition of coconut is into coconut oil.

The policy response should be for collective management models through replanting of old and senile palms using high yielding planting materials, mechanisation, and micro irrigation. The marketing policy should focus on aggregation at farmer level through FPOs, and cooperatives. Value addition policy should focus on industrial growth in processing sector and FPO promotion. Legal changes are required in aspects with respect to Neera production. The liquor policy has to be changed to transform Neera to a mild alcoholic drink with less than 5 per cent alcohol content.

Value Addition in Coconut in Kerala, Dr Jayan Jose Thomas

The prospects for value addition, hurdles and way forward was discussed in the paper. Major take aways from the paper was that research institutes should come closer to firms and farmers. There should be integration of department of agriculture and industries. Premier mentor or incubator institutions should offer support to small and medium firms and startups.

Experiencing the Dynamics of Trade Agreement and Price Volatility, Dr Jayasekhar S

This paper discussed the comparative advantage of coconut and coconut oil of Kerala in the world trade. India's consumption-production ratio is relatively higher than other countries. A

comparison of price of coconut oil in the world market and Kerala shows that price in Kerala is always on higher side than the price in competing countries. The paper discussed the possible impact of palm oil import on the coconut oil prices. One impact is the substitution of coconut oil with palm oil and second is the adulteration and blending with other oils. Kerala has a competitive disadvantage in coconut oil trade. Thus it is necessary to have a diversified coconut based products is needed. There is a need to re-calibrate the import duty structure of edible oils Unbiased tariff reduction schedule should be proposed. Modalities need to developed to reflect regional concerns in FTAs.

DAY 2: NOVEMBER 3, 2019

5. Parallel Session 1: Industrial Investment and Value Addition

Chair: Dr Jayan Jose Thomas, Member, Kerala State Planning Board

Decisive Factors in Becoming a Sustainable Growing Branch of the economy for Commercial Coconut Trade, Ms Nguyen Thi Kim Thanh, Vietnam

Vietnam is a tropical country with 2,00,000 hectares of land cultivating coconut. Industrial coconut production accounts for 80-85 percent of which, 70 per cent of area is occupied by 10-60 years old coconut trees. The yield per hectare was 2120 tons/ hectare in 2015, which increased to 24,120 tons per hectare in 2017. The policies adopted by Vietnam government for promoting the coconut sector are the following.

- 1. Developed a national branding programme.
- 2. Ministry of Agriculture and Rural Development to monitor coconut procurement.
- 3. Introduced organic palming
- 4. Establish provincial coconut associations to promote value addition and exports.
- 5. Establish pre-processing unit and output processing unit.
- 6. 70 percent of income of Vietnam comes from coconut. Vietnam has relatively young palms. Government is focusing more attention on quality raw materials.
- 7. Invite international and domestic investment for promoting small and medium units.

Fluctuation of price of raw materials in domestic market is the main challenge faced by the coconut sector in Vietnam. The strategy adopted by Government to deal with this issue includes the following:

- 1. Support from government and farmers associations
- 2. Build up own source of raw materials.
- 3. Government support for farmers to expand area under coconut cultivation.
- 4. Local economy promotion through agro-tourism.

Processing and Value Addition of Coconut in Thailand, Ms Peyanoot Naka, Thailand.

The total area of coconut cultivation in Thailand in 2018 was 1,33,000 hectare. The total production is 8,56,920 tonne and the average yield is 685 million nuts per year. There are 1,61,805 farmers engaged in coconut cultivation. China, USA, Hong Kong, Australia, Singapore, Taiwan and UAE are the major counties where coconut is exported. 60 per cent of produce is domestically consumed. Thailand is the world leader in the export of coconut milk. Thailand followed two methods for processing coconut water, ultra high temperature and natural fermentation method. Their niche area is aromatic coconut farming.

Thailand has developed standards for coconut oil and Virgin Coconut Oil (VCO). National and international standards were developed for certification of coconut products. Innovation and product quality and packaging technology are important for developing new products.

The coconut processing and value addition in Thailand has grown up very fast mainly because of people's concern regarding their health and beauty. National and international standards and certification of coconut products are very important for industry. Innovation, product quality and packaging technology are very important to develop new products for consumers and also to cater to international and national markets.

Global Market Trends and Processing Solutions for Coconut Beverages, Mr V Anandkumar

Out of the total coconut production in the world, 90 percent of the coconut is grown in Asia Pacific region. The Coconut Handbook captures all knowledge and experience about the coconut sector. This includes general and technical information such as quality aspects, processing and packaging, as well as the health and nutritional benefits of coconut.

The consumption of coconut beverages was largely at points of production. Advancement in processing and packaging technology enabled it to reach out to wider markets such as North America and Europe. These are the key growth potential markets. Innovation has been the main driver of growth in coconut water and milk based beverages. Naturalness, excitement through flavours, different consumption occasions and natural health benefits are the key drivers of

innovation. Innovation can help in higher value realisation for producers, processors and even consumers.

Technological Innovation in Food Processing and Value Added Coconut Production, Dr R K Sharma

Various technological innovations in food processing sector for defence purposes have been developed by Defence Food Research Laboratory. The changing profile, taste and preference of new generation consumers necessitate the need for research and development in food processing. A range of product from coconut can be made, from beverages to milk. DFRL provides training to women entrepreneurs for various coconut products. DFRL has transferred 29 technologies to industries, entrepreneurs from various states including Kerala. DFRL has started a joint venture with Coconut Development Board for tender coconut water preservation technology using bio preservation with 6 month shelf life under ambient conditions and 9 months under refrigerated storage.

Coconut Oil and India's International Agricultural Trade Issues, Dr James J Nedumpara

This paper dealt with trade in coconut and coconut products focusing on coconut oil. In 2017-18, the main coconut product exporters were The Philippines, Indonesia, Malaysia, Sri Lanka and India. The importers are U.S, EU, Malaysia and China. India too has import dependence in edible oil. Activated carbon constitutes 63.1 per cent of India's exports and coconut oil contributes only 24.1 per cent to India's export share.

The speaker emphasised the relevance of trade agreements in coconut trade. ASEAN agreement was a major setback to India's agricultural trade. RCEP agreement is a very comprehensive agreement and industrial products from China are a major concern for India. Given the tariff protections under WTO and other FTAs, RCEP will not be a major challenge to agriculture products.

He concluded that trade deficit with ASEAN has increased but is not alarming. The utilisation of FTAs by India exporters have to be increased. For better utilisation of FTAs, we have to concentrate on research and development to increase production and productivity. One of the challenges faced by India is inadequate industry associations and inadequate data and also not

taking advantages of favourable situations in the coconut oil trade. He emphasised the importance of compliance with international quality standards.

Total Value Addition of Coconut-Potential Opportunities for Entrepreneurs, Dr K P Sudheer

This paper discussed the coconut economy of Kerala and the schemes available for entrepreneurship development. The coconut sector in Kerala can develop only if new products other than copra and coconut oil are developed. On an average, 50 per cent of coconut is used for copra, 20 per cent as tender coconut and 30 per cent for culinary purpose. At present profitability of coconut farming is linked to the price behaviour of coconut oil. This paper discussed in detail about the various technologies and facilities available to entrepreneurs at Kerala Agricultural University (KAU) agri business incubation centre.

In collaboration with Government of India, project has been initiated for financing viable ideas Support is provided to technology, and marketing solutions. Present research and development is on non-thermal processing rather than thermal processing to retain the product quality.

Kerala Agricultural University also has separate department for developing wood based products at Thrissur. It also developed various products like NEERA, coconut water, coconut milk, and curry paste.

The development strategy for coconut needs a new orientation with a thrust on product diversification, value added product development, quality improvement, marketing and export promotion.

Novel Products of ICAR-CPCRI to Turn Coconut Farmer into an Entrepreneur, Dr K B Hebbar

The paper emphasised that the major objective is to raise the income of farmers and to make them entrepreneurs by providing technology support. The speaker presented the following comparative economies of coconut cultivation. The return from tender coconut is estimated to be Rs 6,000 per tree per year, and from mature coconut Rs 3,000 per tree per year. NEERA can earn Rs 14,000 per tree per year. The prospect for preparing spadix for neera production was demonstrated. CPCRI-KAU and Coconut Development Board is instrumental in fixing standards for NEERA. Co-operative model was suggested for promoting NEERA.

6. Parallel Session 2: Prospects for Productivity and Profitability

Chair: Dr K Ravi Raman, Member, State Planning Board

What CDB can do to put Kerala on a Sustained Growth Path in Production and Value Addition in Coconut, Ms G Jayalakshmi, IAS, Chairperson, Coconut Development Board

The Coconut Development Board (CDB) has been implementing various measures for the development of coconut industry. CDB aims at integrated development of coconut cultivation and industry in the country so as to make the coconut economy sustainable and globally competitive.

India tops in coconut production and productivity in the world. It covers 2.10 million hectares in 16 states and 4 union territories. Kerala, Tamil Nadu, Karnataka, and Andhra Pradesh contributes 89 per cent of area and 93 per cent of production. Annual production is 23798.23 million nuts, and contributes more 3568 million US\$ to GDP (*Data of 2017-18*).

Technical advice is imparted to those engaged in coconut cultivation and industry. CDB provides financial and other assistance to farmers for expansion of area, production of planting material, value addition and marketing. Coconut palm insurance programme is implemented by CDB. 2.76 lakhs seedlings were introduced, 82 small nurseries were assisted, 95 new coconut processing units were established. From 2014-15 to 2018-19, Rs 187.55 crore has been spent by CDB in Kerala.

There is however a fall in production and productivity, which is a matter of concern.

The future thrust areas of CDB are:

- 1. Area expansion
- 2. Replanting and rejuvenation
- 3. Supply of quality material
- 4. Encouraging farmers to adopt IPM, IDM and INM practices
- 5. Establishment of coconut based farming system
- 6. Restoration of damaged soil due to flood

- 7. Coordinating the collective action of Farmer Producer Organisations
- 8. Promoting entrepreneurship with the business incubators
- 9. Market promotion and export promotion (CDB has been notified as export promotion council).

Coconut Improvement: Tissue Culture Techniques for the Collection, Conservation and Multiplication of Elite Germ Plasm, Dr Steve W Akins, Professor, University of Queensland, Australia

Dr Steve W Akins, Professor, University of Queensland, Australia presented on 'Coconut Improvement: Tissue culture techniques for the collection, conservation and multiplication of elite germ plasm'. Productivity of coconut has been declining mainly due to palm weevil, and lethal yellowing. Elite, high yielding, disease resistance and resilient seedlings are required for the farming community. At least 1.5 billion plnating seedlings are needed in the next 3 to 5 years. In order to meet the high demand, tissue culture has been adopted as the appropriate technology which involves the following.

- 1. Selection of plants or palms with desired traits
- 2. Collection
- 3. Preservation
- 4. Mass multiplication

Embryo culture has been attempted as an innovative approach and this resulted in 300 per cent improvement in number of plants in field. Field planting can be done 6 months earlier and good quality seedlings with high rate of survival can be produced. There is an urgent need to replant existing coconut fields which necessitate the availability of quality hybrid seeds. In this, micro propagation plays an important role. He also stated conservation efforts must continue in countries for embryo culture and cryopreservation. Networking and collaboration between the countries is required to reduce duplication of efforts which expedite result timelines.

Application of Immature Ovary Culture for Mass Production of Planting Material in Coconut, Dr Vijitha R M Vidhanaarachchi, Sri Lanka

Dr Vijitha R M Vidhanaarachchi presented a paper on 'Application of immature ovary culture for mass production of planting material in coconut'. She briefed on the coconut tissue culture experiences in Sri Lanka. In Sri Lanka, annual demand for seedlings is 4 million. Only 1.5 million is produced in seed gardens, rest is from OP nuts of plus palms. Thus, increasing production of high quality planting material is a serious issue. Currently applied conventional breeding methods have limitations due to biology of the coconut palm. She mentioned that the only option for vegetative propagation is through tissue culture. Initially somatic tissues were used, later on this was changed to zygotic tissues. A new medium called CRI 72 medium has been developed for immature ovary culture protocol. Initial batches of clonal plants were established in 2015 and clonal plants have been supplied to growers. One acre plot have been established in three selected farmer fields. Total of 200 ovary derived plants are in field trials.

Strategy for Planting Material Production in Coconut, Dr Regi Jacob Thomas, Principal Scientist, CPCRI, Kayamkulam

Since last 6 decades, area under coconut cultivation is growing at 1.83 per cent annually. Productivity can be increased by cultivating high yielding varieties and hybrids. There are following constraints in selecting the planting material.

- a) Only 14 per cent of coconut farmers cultivate hybrids in their farm gardens the long juvenile period reduces the establishment of mother palm gardens.
- b) Less number of planting material possible from a mother palm/year.
- c) Shortage of skilled labour for hybridization technique.
- d) Limited availability of mother palms.

These constraints can be overcome. Research agencies should have a plan for scaling up the planting material production. (Planting advanced/ promising lines in nurseries & farms). Capacity building of climbers by providing training in hybridization technique is required. The minimum number of mother palms required for releasing a new variety should be specified. Mother palm blocks of released varieties can be established in nurseries under private and public sector. Seed garden can be rejuvenated by planting the mother palms of newly released varieties.

Kerala's replanting strategy must be with tall; dwarf and hybrid varieties in the ratio of 60:20:20. Most of the seed gardens produce seedlings of tall varieties to the tune of 80 to 85 per cent and dwarfs and hybrids 15 to 20 per cent. 85 per cent production of tall should come down to 60 per cent and the 15 per cent production of dwarfs/hybrids should be enhanced to 40 per cent. The seedling production should be enhanced.

Decentralised nurseries need to be encouraged. Participatory approach in seedling production is required by imparting training in surveying and identification, marking and labelling mother palms, seed nut collection and storage and nursery establishment and maintenance.

The way ahead in this regard is a mechanism for accreditation of nurseries and certification of coconut seedlings, growing recommended varieties in agro-ecological zones, demand based planting material production, traceability of coconut seedlings, and responsible seedling concept

Importance of Germ Plasm and the International Coconut Genebank, Dr V Niral, Principal Scientist, CPCRI, Kasaragod

The speaker mentioned about genetic diversity and importance of germplasm. Concentration should be given for enrichment, strengthening of genetic base as well as for development of verities suitable for processing, aroma, tolerance to pest and disease resistant varieties.

The coconut genetic resources include filed gene banks, on farm, embryos, pollen and DNA. There are 323 indigenous genetic resources and 132 exotic germplasm collection at CPCRI.

Efforts should be made to address the challenges with respect to coconut productivity. The genetic base should be further enriched and strengthened. There should be an exchange of genetic resources & multi location evaluation. Farmer participatory breeding and on-farm conservation approach should be adopted. There is a need for development of varieties suitable for processing.

The Chair concluded the session by stressing on the need for technological resolution, importance of participatory efforts from various institutions as well as FPOs. He also stated that coproduction of knowledge across institution as well as detailed study on price factors, and trade agreements has to be undertaken.
Chair: Dr R Ramakumar, Member, State Planning Board

Management of Weligama Coconut Leaf Wilt Disease Sri Lankan Experience, Dr Priyanthie Fernando

Weligama disease is similar to root wilt disease of Kerala. Though not fatal, it can destroy the palm if leaf root disease affects the palm. The origin of the disease is unknown. The symptoms and epidemiology is similar to that of root wilt disease. The first report was from Weligama area in the Southern Province in late 2006.

Diagnosis is being attempted using molecular techniques. Multidisciplinary programme was introduced to develop diagnostic tool, initiate study on the cause of the disease and assess the economic impact of the disease. Removal of affected palm could significantly reduce the disease incidence along with maintenance of disease free boundary. Quarantine measures were also imposed to avoid the spread.

Awareness campaign for Government, relevant officers, scientists, stake holders, growers and public was undertaken to contain the spread of the disease. A Steering Committee was set up in 2007 to formulate management strategies, monitoring activities and advising. All diseased palms were removed and a disease free boundary was maintained. The disease has been contained successfully in Sri Lanka.

Income Enhancement from Coconut Farming-Status and Approaches, Dr C Thamban

This paper pointed out that there are several challenges in the sector in form of market fluctuation, absentee land ownership, and low level of adoption of crop management practices. In order to face various challenges in coconut industry, we should have comprehensive rejuvenation programme, decentralised farmer participatory approach as well as establishment of new seed gardens. Soil health management centric strategy has to be one of the key elements in reviving the economic viability. Coconut based multiple cropping and integrated farming system can act as a livelihood security. Promoting group approaches among coconut producers is the need of the hour and research and extension activities should confirm active participation of farmers. Tender coconut marketing needs to be promoted through FPOs. Virgin coconut oil is also getting popular as a value added product in the domestic and export markets. We need to encourage FPOs/ entrepreneurs in coconut sector by establishing 'Coconut Parks'. Potential of Neera and its value added products to be utilised, Crisis situation in Neera units under FPOs to be sorted out through institutional support. Necessary logistics need to be arranged for procurement of coconuts through all Krishibhavans along with facilities for safe storage of nuts and also for primary processing of nuts into copra. Effective linkage is to be established among different research, extension and development agencies and coconut farming community.

Strategies emphasizing implementation of a comprehensive coconut rejuvenation programme, enhancing productivity through better technology integration and value addition through product diversification are needed besides a congenial policy environment. Community action should be facilitated among the small and marginal coconut growers at grass root level to revitalize the coconut sector

Coconut Based Farming in the Homesteads of Kerala, Dr Jacob John, Head, Kerala Agricultural University, Karamana

The average size of operational holding in Kerala is 0.24 ha to 0.22 ha. The average size of 96.33 per cent of the total holdings is 0.13 ha. For marginal homestead farmers-intensive land use practices like multitier cropping and integrated farming are becoming increasingly important.

Coconut based Integrated Farming System can benefit the farmers by increasing productivity, proper utilisation of natural resources, organic recycling, food, nutritional and livelihood securities, reducing pollution and provision of income and employment throughout the year. An integrated approach of farming is the best strategy for a state like Kerala with small and marginal farmers with fragmented landholdings.

Coconut based integrated farming in homesteads if scientifically managed will help to achieve effective waste management, resource conservation, bio-resource recycling and energy conservation, and food, nutritional and livelihood security

7. Parallel Session 3: Challenges and Opportunities in Coconut Sector

Chair: Dr C Bhaskaran, Professor (Retd.) KAU

What Kerala Agricultural University can do to put Kerala on a Sustained Growth Path in Production and Value Addition in Coconut, Dr P Indiradevi, Director of Research, KAU

Even though there is an increase in productivity of coconut in the State, the growth rate in productivity shows a declining trend from 2000 onwards. In other words, rate of growth in productivity is coming down. There is a wide variability among districts in Kerala with respect to productivity.

There is a need for regular and updated data on coconut cultivation. There is serious data gap with respect to output per yielding palm, variety wise data, irrigated or unirrigated areas, well managed or poorly managed palm, and age wise distribution. There are constraints in seedling production that includes lack of elite mother palms, difficulty in getting true to type plants, poor storability of pollen for hybridisation. KAU is currently taking steps to solve these issues through research on micro propagation and to extent the storage life of pollen. For irrigation, coconut farmers depend heavily on ground water. Since the ground water declining tremendously, farmers face problem in irrigating their farms. Also it increases the cost of irrigation.

Recently implemented ICAR funded Centre for Advanced Agricultural Science and Technology (CAAST) project facilitates coconut based secondary agriculture. The main focus of the project is the capacity development among students for entrepreneurship development, facilitate establishment of coconut based industrial units and market advisory services.

Coconut Sector in Kerala: Transfer of Technology, Adoption and Community Participation, Dr Jiju P Alex

Dr Jiju P Alex, Director, Extension, KAU, presented a paper on coconut sector in Kerala: Transfer of technology, adoption and community participation. The major suggestions for reviving coconut sector in Kerala are the following.

- a. Schemes of government to be improved in terms of reach and support.
- b. Provisions for complimenting schemes by projects of LSGIs

- c. Multi year programme with consistent interventions
- d. Mission mode programmes for replacement of senile palms through a consortium of agencies at the local level.
- e. Exploring entrepreneurship opportunities in service delivery for crop management and value addition
- f. More integration between schemes of the departments of industry and agriculture.

Irrigation Management in Coconut Plantation, Dr Ravi Bhat, Head, Crop Production, CPCRI, Kasaragod

Coconut requires a well distributed rainfall (130 -230 cm), mean annual temperature (27 degree centigrade plus/minus 5 degree), relative humidity of less than 60 per cent and sun shine period of 120 hours per month).

Vegetative and reproductive stage occurs simultaneously in coconut and hence there is no critical period for irrigation. Coconut palms need to be irrigated throughout the growth period depending on rainfall. Drip irrigation is the most efficient method. Irrigation at the rate of 66 per cent OPE (Open Pan Evaporation) proved to be economical. An yield equivalent to higher level of irrigation was obtained when irrigated at the rate of 66% Eo with saving of 34% of irrigation water. For North Kerala the quantity of daily water requirement ranges from 27 (Dec to Jan) to 32 litres (Feb onwards) through 4 dripping points for adult WCT palms.

In addition to irrigation, soil moisture conservation measures using coconut waste may be adopted. Adopting multiple cropping in integrated farming system will enhance the income.

Irrigation is an integral part of coconut cultivation. The vegetative and reproductive growth phases are over lapping and continuous. Continuous availability of moisture is essential for sustainable production of coconut and drip irrigation is the best method of irrigation for coconut. Soil Related Constraints to Coconut Production in Kerala, Dr K M Nair, Principal Scientist (Retd.), National Bureau of Soil Survey and Land use planning, Bangalore

The results of studies on soil qualities between 2004 to 2013 have presented enough evidence that soil related constraints are primarily responsible for low productivity of the palms. There is very strong soil acidity, in both surface and subsoil and extensive deficiency of secondary nutrients calcium and magnesium. The soil related constraints, though few in number, are severe, extensive and debilitating. Their alleviation through appropriate inputs and crop management can usher in better performance of the palm all over the state.

Soils of Central and eastern Palakkad and southern Kerala are least constraining for coconut. Soils of Northern Kerala suffer from surface and subsoil acidity and nutrient deficiencies. Soils of Central Kerala, Onattukara Sandy Plain and coastal sandy plain are severely constraining to coconut with very strong surface and subsoil acidity, Al toxicity and acute deficiencies of primary, secondary and micro-nutrients. Soils of Central and Eastern Palakkad and Southern Kerala needs external inputs of NPK and micro-nutrients Zinc and Boron for satisfactory coconut productivity. Soils of Northern Kerala need to be ameliorated for acidity by application of dolomite and gypsum and inputs of nutrients NPK, Zinc and Boron. Soils of Central Kerala require input of magnesium sulphate in addition to those used for Northern Kerala. Requirement of Onattukara sandy plain and Coastal sands are similar to that of Central Kerala, but in more splits.

An experiment was conducted with agronomic management and external inputs for restoration of soil qualities and for meeting the nutritional requirements of adult coconut palm during the period 2014-2019. The agronomic management techniques include discontinuation of the practice of making basins around the palm before the onset of monsoon and its closure on cession of rainfall (coconut-growing soils of Kerala do not require the practice to aid infiltration of water), and return of all palm residues to its base in lieu of external organic matter inputs. The soil amendments include annual application of 2 kg liming material, preferably as dolomite, per palm in May in all regions, except Central and Eastern Palakkad where it should be soil test based, annual application of 1 kg gypsum for the palm in May, except for those in Central and Eastern Palakkad, southern Kerala and coastal sandy soils. This experiment in four sites across the State yielded promising results.

Chair: Mr S S Nagesh, Chief Agricultural Division, State Planning Board

Pest and Diseases of Coconut and its Management in Kerala, Dr K M Sreekumar, Professor and Head, Department of Entomology, KAU, Kasaragod

The speaker discussed the predisposing factors to pest and disease. Kerala with laterite soil has low capacity for holding nutrients and high rainfall leads to higher leaching of nutrients. Scolytid Beetle, Bud Rot and Yellowing are the major pest and disease observed in coconut.

Integrated Nutrient Management measures should form the basis for IPM and IDM. Community approach should be practised for the management of pests and diseases especially rhinoceros beetle, red palm weevil, and bud rot. He emphasised the need for research for developing sensors and Artificial Intelligence to diagnose red palm weevil, rhinoceros beetle and root grubs, early detection of bud rot and measures for early detection and management of ganoderma wilt.

Development Schemes Implemented by the Department of Agriculture Development and Farmers Welfare and Its Key Deliverables, Ms Mary Thomas, Additional Director Crop, Department of Agriculture, GoK

The various schemes implemented by department such as Keragramam, Coconut Development Council and its progress was presented. The Coconut Development Council aims at comprehensive development of coconut sector. It aims to bring additional 1.44 lakh ha under coconut. 75 seedlings are distributed to each ward by the Council.

The speaker emphasised follow up and continuity of relevant schemes. Production and productivity of the State is showing an increasing trend in the recent years owing to the effective interventions by the Department of Agriculture and other agencies. More emphasis need to be given on market intervention practices for ensuring remunerative prices to the farming community and further encouragement should be provided for processing and value addition ventures.

Women Empowerment through Coconut-Based Micro Enterprises, Mr Kunhammad Master (Chairperson) and Ms Liji E M (Director) SUBICSHA, Kozhikode

Mr Kunhammad Master (Chairperson) and Ms Liji E M (Director) SUBHICSHA, Kozhikode discussed the success story of SUBICSHA, a women entrepreneurship venture (Women Coconut based Producer Company). SUBICSHA stands for Sustainable Business development of Innovative Coconut based micro enterprises for Holistic Growth & Poverty Alleviation. SUBICSHA focuses on helping coconut farmers by assuring a standard selling rate for coconuts. It is a leading model project for women empowerment (for women, of women and by women), value addition, rural development and socio economic empowerment. There are 24 major products ranging from seedlings, charcoal, coir to virgin coconut oil. SUBHICSHA's marketing turnover has increased from Rs 0.85 lakhs in 2006-07 to Rs 5.65 crore in 2018-19. Entrepreneurs are provided with common production, supply, packaging, QC testing, marketing and other services. Facility worth around Rs.285 lakhs like building, machinery etc. were made available to every entrepreneur groups under SUBICSHA.

Presentation by Winners of National Coconut Challenge

There were presentations by three award winners of 'National Coconut Challenge'. The award winners of the 'National Coconut Challenge' were

- 1. 'Kera Harvester', developed by the students of Christ Engineering College, Irinjalakuda, won the first prize. They developed a prototype machine which simplifies coconut harvesting. The machine costs around Rs 14,000.
- 2. The second prize was won by Dr Reji Jacob Thomas, Principal Scientist, CPCRI. The award is for the refinement and commercialisation of modern ground pollination technique in coconut.
- The third prize was won by Mr Syriac Joseph Palakkal for zero waste virgin coconut oil production by double centrifugal process.

8. Parallel Session 1: Experience Sharing on Coconut Farming

Chair: Shri K Krishnankutty, Minister for Water Resources, GoK

Selected farmers as well as representatives of Farmer Producer Companies shared their experience on coconut based farming. Mr O V R Somasundaram from Pollachi stressed the importance of usage of good quality planting material, multi-tier cropping system, scientific cultivation practices and on-farm value addition. Mr Raam Mohan, representative of Umapathy Coconut Hybrid Centre, Tamil Nadu explained how quality hybrids are produced from their farm and bar coding of planting materials is done. Mr Dominic M M from Kozhikode explained the practices adopted by him in his farm to reduce the pre-bearing period, and the practice of mixed farming, which helps him to maximise return. Mr C M Muhammad, Vice Chairperson, Tirur CPC explained the challenges faced by FPOs producing 'Neera'. Mr K Krishnanunni, President, Farmer Producer Society, Perumatti, shared his agony on pest and diseases of coconut and enquired the possibility of root feeding for the control of pest and diseases. Mr Malappattam Prabhakaran shared his experience on media and agricultural extension. Mr James E S, Chairman, Perambra CPC talked about the policy issues that farmers are facing on 'Neera' marketing. Ms Sudharma from Haripad said shared her experience on organic farming, value addition and mixed farming possibilities. Honourable Minister Shri K Krishnankutty concluded this session. He shared his views on the free trade agreements and its impact on coconut farmers. He also pointed the importance of the scientific cultivation practices, multi-cropping system and value addition to enhance incomes.

9. Parallel Session 2: Experience Sharing on Value Addition and Industrial Production

Chair: Shri Saradindu Das, Chief Coconut Development officer, Coconut Development Board

Mr. Paul Francis, Managing Director, KLF Nirmal shared his experience. This company was started in a rented mill in 1987. They started own production in 1992. The company produces coconut oil, virgin coconut oil, sesame oil, coconut milk powder, and coconut milk. It is ranked 3rd in marketing of coconut based products and is the largest seller of virgin coconut oil in India. Granulation in coconut oil is the major problem due to change in temperature. At 45 degree Celsius temperature also, 3 per cent remains as sediments. Finding adulteration is easy through various methods such as R1 method, UV Spectrophotometer, Paraffin TLC method. KLF is following the highest and costliest instruments for detecting the colour of VCO. It is called as Gardner Colour-LOVIBOND. It is not possible to detect the colour of VCO through Ordinary Lovibond.

Mr Murtaza A. Lukmanjee, Managing Director, Adamjee Lukmanjee & Sons (Pvt) Ltd talked about the coconut production and world market. Coconut production system has a unique structure due to the versatility of the uses of the plant and the duality of its cultivation method. The total value of world trade in coconut was in excess of USD\$ 10 billion. US covers huge portion of market. The recent trends in the coconut industry indicate decline of the traditional copra industry. There is competition from palm oil. Coconut products are moving towards mass market from a niche segment. There is increased awareness of coconut as a 'superfood'. He suggested various ways to grow the product lines such as focus on health, lifestyle based marketing, Brand Building, innovations in packaging and to team up directly with global FMCG in product development, health specialists and nutritionists. The major challenges to the industry include acess to capital for new and emerging technologies, skilled manpower, Millenial's moving away from traditional industries and embracing other sectors and sustainable cultivation with minimum impact to society. He stressed on use of technology in sourcing. The potential of block chain in agriculture improves traceability and monitoring from "Farm to Fork".

Mr Ubais Ali, Executive Director, Mezhukkaatil Mills, spoke about his business which is a 40 year old manufacturing and export company concentrating on private labeling. Mezhukaatatil

Mills manages 22 international brands in different countries. The speaker mentioned the various hurdles faced by the industry. Standard Classifications are not made clear, that is, there is no separate standard for products and food standard specifications are not updated. Data collection and statistics needs to be updated. CDB needs to take up the matter of creating separate HS code and MEIS for VCO and normal oil. There are no proper testing facilities for Benzo Pyrene and this will affect the export market. There is lack of awareness regarding granulation problems. There is duplication of technologies by different government agencies arising from lack co-ordination between them. Lack of participations in Trade fairs, Exhibitions, Delegations, Buyer seller meet. Periodical revision and updation of standards is needed. CDB needs to play an active role for an industry led growth and cross border consolidation of industry.

Mr Rajarathinam, Essar Engineering, Coimbatore, gave a detailed presentation on the company's manufacturing and installing equipment used for coconut husk and coconut kernel based projects. He spoke about the value addition of coconut milk which can be used for preparing coffee or tea, and also its huge potential in cosmetic market. Natural Coconut water concentrate can be used with other juices in cocktails.

Mr K C Sreedaran Nambiar, Anjarakandi Farmer's Cooperative Society, gave a brief introduction to the factory in Kannur district which was started as a small coconut unit in 2002 and was extended to a large unit by 2014 with the support of NABARD. He added that strong irrigation system is needed for survival of the new replanted seedling under present climate change. A technical advisory committee must be formed for installation of machineries. Research centres should make a marketing strategy. Proper monitoring system is required to deal with subsidies to prevent its misuse.

Mr Ananthakrishnan, Managing Partner, Ananth Dryers, shared his experience in the field and also suggested solutions for the major challenges in the coconut drying sector. He developed a drying system which converts coconuts into copra within 24 hours. In 1992, he implemented it for Kallamkunnu Service Co – Operative Bank with a capacity of 5,000 nuts/day. It consists of a primary drying chamber for drying broken nuts and a secondary chamber for drying de - shelled kernels. Agropros Ltd., Vandithvalam – the first Tunnel Dryer – 30 m long hot air tunnel, where the raw coconuts are dried into below 3 per cent moisture content copra. With that they are able to produce coconut oil with Free Fatty Acid (FFA) content below 0.1 per cent. The salient

feature of this technique is the improved coconut oil. Our next challenge is to create an affordable Virgin coconut oil and edible coconut meat powder. The solution is Whole Coconut Virgin oilTM with the International standards, for that the company has designed a special tunnel Dryer, where the de shelled wet kernels can be dried within 12 hours. Thereafter the dried kernels are cold pressed in a single crushing expeller. The final result is Whole Coconut Virgin oil and Whole Coconut Meat powder both are affordable and high quality edible food products. A simple way to process coconut water is just to pass it through RO filter. The clear water can be bottled and sold as packed drinking water. Residue can be concentrated as Coconut Honey or Vinegar.

Mr Ganesh Kamath, Vittal Agro Industries, talked about his experience in the factory which was started in 2008 and the export of dessicated coconut powder started in 2011. The coconut powder is being imported in a large way in the last six months. The industry is in the verge of closure as the coconut price is high but the imports are cheaper. CDB should take necessary measures to protect the domestic product.

Ms Afsath K P, A+ Coconut Oil Unit, along with 5 other members, started the unit as 'Ayalkoottam' in 2011. After 3 years, under Self Employment Scheme from District Kudumbashree Mission, they extended the unit in a small scale. Now the unit is facing challenge as the coconut oil available in the market has low price and the A+ Coconut Oil Unit is selling at a much higher price but not compromising on quality.

Mr Vinod Kumar P, Chairperson, Consortium of CPC's in Kerala, shared his experience in the industry. There are 29 CPCs in Kerala and raised 51.36 crores as equity. It involves 6,91,301 farmers, and owns 16.97 crores of palms which are facilitated by Coconut Development Board. There are 37 modern copra dryers, which has the capital cost of Rs 20.87 crores (25 per cent subsidy from CDB). Its production capacity is 5 lakh Coconuts per day. The challenges are the working capital and adulteration. There are 12 units of "Neera" and the capacity per day is 88,200 litres. There are challenges in the production of Neera such as developing a product with consistent life, a shelf life of six months in ambient conditions, competitive price, and sales limited to summer. The major challenges faced by CPCs are lack of convergence with Kerala Agricultural Department, indefinite delays in releasing subsides, attitude of Banks. There needs to be convergence with State Agricultural/Coir/Industries Departments, and convergence with

Local Self Governments (for fertilisers, planting material, coconut procurement, husk procurement and primary processing, value addition of coconut). These activities will rejuvenate the CPCs from the current crisis. The future of this industry lies in coconut water.

Mr Sunny George, Chairperson, Thejaswini CPC, pointed out that except India and Kerala, in all other countries, the productivity is more and production cost is less. He said the youth should be encouraged to work in the agriculture sector. Organic cultivation should be promoted to reduce the production cost. Value addition should be done not only in coconut but in all other crops to increase the farm income.

Prof Sasindran E, Chairperson, Vadakara CPC, pointed out that the working capital is a major challenge in the industry on which the government must take necessary actions. The next problem is with "Neera" production. Technology needs to be developed to increase the shelf life of "Neera". Revitalisation and renovation of Neera units is needed to avoid setbacks in the future. He also said proper detection measures are needed to check adulteration.

Discussions were held on adulteration in coconut oil, and the steps to be taken by CDB and State Government. The suggestion from discussants was that serious intervention of CDB is required so that there is timely revision of standards by FSSAI.

Mr Saradindu Das concluded the session and said that some of the issues have already been addressed or taken up by CDB. The views will be considered and be included in government policies.

CONCLUDING SESSION

The concluding session of the two day international conference and expo started with the presentation of report on National Coconut Challenge by Dr Saji Gopinath followed by prize distribution to winners.

Three innovative technologies were selected for the first, second and third prize. Students from Christ College, Iringalakkuda won the first prize for 'Kera Harvester'. Dr Reji J Thomas from CPCRI won second prize for ground pollination technique for coconut pollination. Dr Syriac Jose Palakkal from Kerala Agricultural University won the third prize for zero waste virgin coconut oil production.

Dr R Ramakumar, Member, Kerala State Planning Board presented the summary on production and productivity. He pointed out the main take away from this conference is the lesson from outside countries, outside state and from farmers to improve quality and quantity of coconut farm. He further emphasised the importance of adoption of scientific methods for coconut cultivation, quality planting material, need for customised solutions for panchayats, and collective management. Irrigation is central to coconut development and the State has introduced microirrigation projects. The State had taken a policy decision about conversion of fruit to alcohol but coconut is not included in the list. We need to look into reasons for falling production and productivity in coconut.

Dr Jayan Jose Thomas, Member, Kerala State Planning Board summarised the value addition in coconut. He pointed out the application of science and technologies for the development of value added products. Large initiative investment in research and development should be taken up for the value added product processing and also collaboration should be there among foreign countries. He also mentioned about the efforts which has to be taken up by government to reach out to the market. There is need for professional management of coconut producer societies. There is a need for diversification and branding.

In his concluding remarks Shri E P Jayarajan, Honorable Minister for Industries, Sports and Youth affairs, Government of Kerala announced the following takeaways from the Conference.

New Investment

Several entrepreneurs have expressed interest in making new investments in coconut-based agro industry in Kerala. Among them are:

Indcarb Activated Carbon Private Limited, Greennut International Kodiyathur Service Co-operative Bank Ltd, Kadathanad Coconut Producer Company Ltd, Puduppadi Service Co-operative Bank Limited.

Industrial Parks

The Government will establish, through KINFRA, agro-industrial parks with special focus on coconut-based products in Dharmadam and in Kozhikode district.

Commerce Mission

The government (through the Commerce Mission, Industries Department) will support coconutbased industrial units in Kerala with marketing and technological assistance.

- 1. The Commerce Mission will engage professionals to devise promotional strategies for products such as virgin coconut oil, neera, coconut wood furniture, and other products.
- 2. The government will distribute products from coconut-based industrial units in Kerala through the showrooms of institutions that receive government assistance.
- 3. The Commerce Mission will develop quality standards and install quality-testing facilities in selected locations across the State jointly with Universities or research institutions.
- 4. The Commerce Mission will join hands with leading technical institutions to offer technological and professional assistance to coconut-based industrial units in Kerala on a continuous basis.

In addition, the Anjarakandy Farmers' Cooperative was felicitated for signing an MOU with the Telangana State Cooperative Oilseeds Growers Federation for the supply of 15,000 litres of coconut oil per month.

Minister reiterated that the objective of the Conference and Expo was to share the experience and expertise from India and all over the world. We sought new scientific and sustainable methods of improving production and productivity, and establishing modern, industry-led growth of the coconut sector in Kerala.

The session ended with the vote of thanks by Sanjay M Kaul, Managing Director, KSIDC.

FOLLOW UP ACTIONS BY GOVERNMENT DEPARTMENTS/AGENCIES ON THE CONFERENCE OUTCOMES

I. Prospects for Productivity & Profitability

- a. State Coconut Council- Coconut Rejuvenation Programme-Target of 2 crore quality seedlings in 10 years (Action: Agriculture Department, LSGD, KAU, CDB & CPCRI)
- Encourage Farmer Entrepreneurs through FPO's (Action: Agriculture Department, LSGD, Industries Department & CDB)
- c. Direct Procurement, Processing & Marketing Cluster approach (Action: State Coconut Council, Agriculture Dept., LSGD & PACS)
- d. Coconut area Development & Seed Garden Consolidation (Action: Coconut Council, Agriculture Dept., KAU, CPCRI, LSGD & CDB)
- e. Irrigation, Integrated mixed farming, Intercropping (Action: Agriculture Dept., Water Resources Dept., CDB, CPCRI & LSGD)
- f. Incentives/ VGF's/Infra support (Action: Agriculture Dept., LSGD & CDB)
- g. R&D and Technology Support Incubators, HR and Training (Action: KAU, Agriculture Dept., CDB & CPCRI)

II. Industrial investment & Value addition

- a. Coconut Industry value addition parks/clusters focussing food & non-food products.
 (Action: Industry Department, Coir Department, LSGD, Agriculture Department)
- b. Industrial Finance, Investments facilitation & Incentives (Action: KSIDC, KINFRA, DIC & SLBC)
- c. Technology support covering R&D, Testing & Certification, Incubator space, Marketing, Branding, HR & Training etc.
 (Action: Industry Department, CDB, CPCRI, NIIST, DFRL, KAU, Coir Department, FSSA etc.)
- d. Coir value chain products-Finance, technology, Infra, Markets etc. (Action: Coir Department)

III. Other areas

a. Integration of activities of Agriculture, Industry, Coir LSGD, CDB, CPCRI, NIIST, DFRL etc.

(Action: Industries Department)

- b. Policy issues on Neera, Coconut liquor (Action: Industries, Agriculture & Excise Department)
- c. Trade agreements & Price Volatility (Agriculture, Industries and Economics & Statistics Department)

APPENDIX

Programme Schedule

Time	Session Speaker			
DAY 1: NOVEMBER 02, 2019				
8.30-9.30	Registration			
9.30-11.00	Inaugural Session			
	Venue: Vasco da Gama Hall			
9.30-9.40	Welcome and Presidential Address	Shri E P Jayarajan		
		Minister for Industries, Sports and		
		Youth Affairs,		
		Government of Kerala		
9.40-9.45	Presenting the Theme of the Conference	Dr V K Ramachandran		
		Vice Chairperson,		
		Kerala State Planning Board		
9.45-10.00	Inaugural Address	Shri Pinarayi Vijayan		
		Chief Minister,		
		Government of Kerala		
10.00-10.05	Video Message	Dr M S Swaminathan		
		Founder Chairperson,		
		M S Swaminathan Research		
		Foundation, Chennai		
10.05-10.20	Keynote Address	Dr Uron N Salum		
		Executive Director,		
		International Coconut Community,		
		Indonesia		
10.20-10.25	Special Address	Dr T M Thomas Isaac		
		Minister for Finance and Coir,		
		Government of Kerala		
10.25-10.30	Special Address	Shri V S Sunil Kumar		
		Minister for Agriculture,		
		Government of Kerala		
10.30-10.35	Special Address	Shri M K Raghavan		
		Member of Parliament,		
		Kozhikode		
10.35-10.40	Special Address	Shri A Pradeep Kumar		
		Member of Legislative Assembly,		
		Kozhikode		
10.40-10.45	Special Address	Ms G Jayalakshmi IAS		
		Chairperson,		
		Coconut Development Board, Kochi		
10.45-10.50	Vote of Thanks	Dr A Jayathilak IAS		
		Member Secretary, Kerala State		
		Planning Board and Principal		

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			Secretary, Department of Planning
			and Economic Affairs, Government
			of Kerala
	10.50-11.15	Tea Break	
	11.30-13.15	Plenary Session-I: International Experience	
		Chair: Ms G Jayalakshmi IAS, Chairperson, C	oconut Development Board, Kochi
		Venue: Vasco da Gama Hall	
1	11.30-11.50	Current Coconut Processing Technology	Dr Qiuyu Xia
		and Coconut Products of China	Head, Centre for Product Processing
			Research, Coconut Research Institute
			of Chinese Academy of Tropical
			Agricultural Sciences
			China
2	11.50-12.10	Philippine Coconut Industry Strategic S&T	Dr Edna A Anit
		Programme – Reinvigorating the	Officer in Charge, Crops Research
		Productivity of the Tree of Life	Division, Philippine Council for
			Agriculture, Aquatic and Natural
			Resource Research and Development,
			The Philippines
3	12.10-12.30	Policies and Programmes for Sustained	Mr Sentoor Kumeran Govindasamy
		Development in the Coconut Sector in	Senior Scientist,
		Malaysia	Plant Breeding Industrial Crop
			Program, Crops and Soil Science
			Research Center, Malaysian
			Agricultural Research and
			Development Institute, Malaysia
4	12.30-12.50	Policies and Programmes for Sustained	Dr Normansyah Syahruddin
		Development in the Coconut Sector in	Deputy Director for Market
		Indonesia	Development for Estate Crops
			Products, Directorate General of
			Estate Crops, Jakarta, Indonesia
	12.50-13.15	Discussion	
	13.15-14.00	Lunch	
	14.00-14.45	Plenary Session-II: Coir	1
		Chair: Dr Mridul Eapen, Member, Kerala Stat	e Planning Board
		Venue: Vasco da Gama Hall	U U
5	14.00-14.30	A Renewed Agenda for Coir in Kerala	Dr T M Thomas Isaac
			Minister for Finance and Coir,
			Government of Kerala
			(with Mr Ajit Mathai)
	14.30-14.45	Discussion	
	14.50-17.15	Plenary Session-III: Kerala Scenario	·
		Chair: Dr Mridul Eapen, Member, Kerala Stat	e Planning Board
		Venue: Vasco da Gama Hall	8
6	14.50-15.10	Status Paper on Coconut Production in	Mr D K Singh IAS

		Kerala	Additional Chief Secretary and
			Agriculture Production
			Commissioner,
			Government of Kerala
7	15.10-15.30	Facilitating Industrial Investment in	Mr Sanjay M Kaul IAS
		'Coconut Sector in Kerala	Managing Director,
			Kerala State Industrial Development
			Corporation
8	15.30-15.50	Position Paper on Coconut Production in	Dr R Ramakumar
		Kerala	Member,
			Kerala State Planning Board and
			Mr S S Nagesh
			Chief,
			Agriculture Division, Kerala State
			Planning Board
	15.50-16.05	Tea Break	
9	16.05-16.25	Position Paper on Value Addition in	Dr Jayan Jose Thomas
		Coconut in Kerala	Member,
			Kerala State Planning Board
10	16.25-16.45	Coconut Sector of Kerala: Experiencing the	Dr Javasekhar S
_		Dynamics of Trade Agreements and Price	Senior Scientist,
		Volatility	Central Plantation Crops Research
			Institute, Kasaragod
	16.45-17.15	Discussion	
	18.00-19.00	Guided Tour of the Exhibition	
		DAY 2: NOVEMBER 03, 2	019
	8.30-9.00	Registration	
	9.00-12.45	Parallel Session-I: Industrial Investment and	Value Addition
		Chair: Dr Jayan Jose Thomas, Member, Keral	a State Planning Board
		Venue: Vasco da Gama Hall	-
11	9.00-9.20	Decisive Factors in Becoming a Sustainable	Ms Nguyen Thi Kim Thanh
		Growing Branch of the Economy for	President,
		Commercial Coconut Trade	Vietnam Coconut Association
			Vietnam
12	9.20-9.40	Processing and Value Addition of Coconut	Ms Peyanoot Naka
		in Thailand	Vice Chairperson,
			Conservation and Development of
			Coconut Oil of Thailand forum
			(CDCOT), Thailand
13	9.40-10.00	Global Market Trends and Processing	Mr V Anandkumar
		Solutions for Coconut Beverages	Senior Manager,
		0	System Sales, South India and Sri
			Lanka, Category Manager, Prepared
			Food, SAM, Tetra Pak India Pvt. Ltd.
1	1		
			Bangalore

15	10.00-10.20	Technological Innovations in Food	Dr R K Sharma
		Processing for Creation of Value Added	Former Director
		Coconut Products	Defence Food Research Laboratory
			Mysuru and Vice Chancellor Saveetha
			Institute of Medical and Technical
			Sciences, Chennai
	10.20-11.00	Discussion	
	11.00-11.15	Tea Break	
		Chair: Dr Jayan Jose Thomas, Member, Keral	a State Planning Board
16	11.15-11.35	Total Value Addition of Coconut – Potential	Dr K P Sudheer
		Opportunities for Entrepreneurs	Professor and Head,
			Department of Agricultural
			Engineering, College of Horticulture,
			Kerala Agricultural University,
			Thrissur
17	11.35-11.55	Novel Products of ICAR-CPCRI to Turn	Dr K B Hebbar
		Coconut Farmer into an Entrepreneur	Principal Scientist (Plant Physiology)
			and Acting Head, PB & PHT,
			Central Plantation Crops Research
			Institute, Kasaragod
18	11.55-12.15	Coconut Oil and India's International	Dr James J Nedumpara
		Agricultural Trade Issues	Professor and Head,
			Centre for International Trade and
			Investment Law (CTIL),
			Indian Institute of Foreign Trade
			(IIFT), Ministry of Commerce and
			Industry, Government of India, New
			Delhi
	12.15-12.45	Discussion	
	12.45-14.00	Lunch	
	9.00-12.45	Parallel Session-II: Prospects for Productivity	and Profitability
		Chair: Dr K Ravi Raman, Member, Kerala Sta	te Planning Board
		Venue: Red Lounge	
19	9.00-09.20	What Coconut Development Board can do	Ms G Jayalakshmi IAS
		to put Kerala on a Sustained Growth Path in	Chairperson,
		Production and Value-Addition in Coconut	Coconut Development Board, Kochi
20	9.20-09.40	Coconut Improvement: Tissue Culture	Dr Steve W Adkins
		Techniques for the Collection, Conservation	Professor,
		and Multiplication of Elite Germplasm	School of Agriculture and Food
			Science, University of Queensland,
			Australia
21	9.40-10.00	Success in Coconut Tissue Culture in Sri	Dr Vijitha R M Vidhanaarachchi
		Lanka	Head,
			Tissue Culture Division, Coconut
			Research Institute,
			Sri Lanka

22	10.00-10.20	Strategy for Planting Material Production in	Dr Regi Jacob Thomas
		Coconut	Principal Scientist, Central Plantation
			Crops Research Institute,
			Kayamkulam
23	10.20-10.40	Importance of Germplasm and the	Dr V Niral
		International Coconut Genebank	Principal Scientist, Central Plantation
			Crops Research Institute, Kasaragod
	10.40-11.00	Discussion	
	11.00-11.15	Tea Break	
		Chair: Dr R Ramakumar, Member, Kerala Sta	te Planning Board
24	11.15-11.35	Management of Weligama Coconut Leaf	Dr Priyanthie Fernando
		Wilt Disease: Sri Lankan Experience	Director,
			Coconut Research Institute, Sri Lanka
25	11.35-11.55	Income Enhancement from Coconut	Dr C Thamban
		Farming: Status and Approaches	Principal Scientist, Central Plantation
			Crops Research Institute, Kasaragod
26	11.55-12.15	Coconut-Based Farming in the Homesteads	Dr Jacob John
		of Kerala	Head,
			Integrated Farming System Research
			Centre, Kerala Agricultural University,
			Karamana
	12.15-12.45	Discussion	
	12.45-14.00	Lunch	
	0.00.40.45		
	9.00-12.45	Parallel Session-III: Challenges and Opportur	ities in Coconut Sector
	9.00-12.45	Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker	ala Agricultural University
	9.00-12.45	Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker Venue: Beypore Hall	ala Agricultural University
27	9.00-12.45	 Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker Venue: Beypore Hall What Kerala Agricultural University can do 	ala Agricultural University Dr P Indiradevi
27	9.00-12.45	 Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker Venue: Beypore Hall What Kerala Agricultural University can do to put Kerala on a Sustained Growth Path in 	Director of Research,
27	9.00-12.45	 Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker Venue: Beypore Hall What Kerala Agricultural University can do to put Kerala on a Sustained Growth Path in Production and Value-Addition in Coconut 	Dr P Indiradevi Director of Research, Kerala Agricultural University,
27	9.00-12.45	Parallel Session-III: Challenges and OpporturChair: Dr C Bhaskaran, Professor (Retd.), KerVenue: Beypore HallWhat Kerala Agricultural University can doto put Kerala on a Sustained Growth Path inProduction and Value-Addition in Coconut	Dr P Indiradevi Director of Research, Kerala Agricultural University, Thrissur
27	9.00-12.45 9.00-09.20 9.20-09.40	Parallel Session-III: Challenges and OpporturChair: Dr C Bhaskaran, Professor (Retd.), KerVenue: Beypore HallWhat Kerala Agricultural University can doto put Kerala on a Sustained Growth Path inProduction and Value-Addition in CoconutCoconut Farming in Kerala: Problems and	Dr P Indiradevi Director of Research, Kerala Agricultural University, Thrissur Dr Jiju P Alex
27	9.00-12.45 9.00-09.20 9.20-09.40	Parallel Session-III: Challenges and OpporturChair: Dr C Bhaskaran, Professor (Retd.), KerVenue: Beypore HallWhat Kerala Agricultural University can doto put Kerala on a Sustained Growth Path inProduction and Value-Addition in CoconutCoconut Farming in Kerala: Problems andProspects in the Field of Extension	Dr P Indiradevi Director of Research, Kerala Agricultural University, Thrissur Dr Jiju P Alex Director, Extension,
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27 29 30	9.00-12.45 9.00-09.20 9.20-09.40 9.40-10.00	Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker Venue: Beypore Hall What Kerala Agricultural University can do to put Kerala on a Sustained Growth Path in Production and Value-Addition in Coconut Coconut Farming in Kerala: Problems and Prospects in the Field of Extension Irrigation Management in Coconut	Initial and the sector ala Agricultural University Dr P Indiradevi Director of Research, Kerala Agricultural University, Thrissur Dr Jiju P Alex Director, Extension, Kerala Agricultural University, Thrissur Dr Ravi Bhat
27 29 30	9.00-12.45 9.00-09.20 9.20-09.40 9.40-10.00	Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker Venue: Beypore Hall What Kerala Agricultural University can do to put Kerala on a Sustained Growth Path in Production and Value-Addition in Coconut Coconut Farming in Kerala: Problems and Prospects in the Field of Extension Irrigation Management in Coconut Plantation	Initial and a sector ala Agricultural University Dr P Indiradevi Director of Research, Kerala Agricultural University, Thrissur Dr Jiju P Alex Director, Extension, Kerala Agricultural University, Thrissur Dr Ravi Bhat Head,
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27 29 30	9.00-12.45 9.00-09.20 9.20-09.40 9.40-10.00	Parallel Session-III: Challenges and Opportur Chair: Dr C Bhaskaran, Professor (Retd.), Ker Venue: Beypore Hall What Kerala Agricultural University can do to put Kerala on a Sustained Growth Path in Production and Value-Addition in Coconut Coconut Farming in Kerala: Problems and Prospects in the Field of Extension Irrigation Management in Coconut Plantation	Intrest in Coconut Sector ala Agricultural University Dr P Indiradevi Director of Research, Kerala Agricultural University, Thrissur Dr Jiju P Alex Director, Extension, Kerala Agricultural University, Thrissur Dr Ravi Bhat Head, Crop Production, Central Plantation Crops Research Institute, Kasaragod
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			Kerala Agricultural University,	
			Kasaragod	
	10.40-11.00	Discussion		
	11.00-11.15	Tea Break		
		Chair: Mr S S Nagesh, Chief, Agriculture Divi	sion, Kerala State Planning Board	
33	11.15-11.35	Development Schemes Implemented by the	Ms Mary Thomas	
		Department of Agriculture Development and	Additional Director (Crop)	
		Farmers Welfare and its Key Deliverables	Department of Agriculture	
			Development and Farmers Welfare,	
			Government of Kerala	
34	11.35-11.55	Women Empowerment through Coconut-	Ms Liji E M	
		Based Micro Enterprises	Director, Subhicsha, Kozhikode and	
			Mr M Kunhammad Master	
			Chairperson, Subhicsha, Kozhikode	
35	11.55-12.15	Presentations by 3 Award Winners of	3 Award Winners	
		"National Coconut Challenge"		
	12.15-12.45	Discussion		
	12.45-14.00	Lunch		
	14.00-16.45	Parallel Session-I: Experience Sharing on Coconut Farming		
		Chair: Shri K Krishnankutty, Minister for Water Resources, Government of Kerala		
		Venue: Red Lounge		
	14.00-16.15	Speakers	Mr O V R Somasundaram	
			Mr Raam Mohan	
			Mr M M Dominic	
			Mr C M Muhammad	
			Mr K Krishnanunni	
			Mr Malappattam Prabhakaran	
			Mr James E S Ma Sudharma	
	16 15 16 45	Discussion	Wis Suullatilla	
	16.45.17.00	Tea Break		
	14 00-16 45	Parallel Session-II: Experience Sharing on Val	ue Addition and Industrial	
	14.00-10.45	Production	are reduction and moustnar	
		Chair: Shri Saradindu Das, Chief Coconut Dev	velopment Officer Coconut	
		Development Board	coopinent officer, obconut	
		Venue: Bevpore Hall		
	14.00-16.15	Speakers	Mr Paul Francis	
		1	Managing Director, KLF Nirmal	
			Mr Ubais Ali	
			Executive Director, Mezhukkatil Mills	
			Mr H Ganesh Kamath	
			Partner, Vittal Agro	
			Mr Rajarathinam	
			Mii Kajaratiinani	

		Mr K C Sreedaran Nambiar
		Anjarakandi Farmers' Co-operative
		Society
		Mr Anandhakrishnan
		Managing Partner, Ananth Dryers
		Mr Murtaza Lukmanjee
		Managing Director, Adamjee
		Lukmanjee and Sons (Pvt) Ltd
		Ms Afsath K P
		A+ Coconut Oil Unit
		Mr K S Sanjeev
		President, Coir Shippers Council
		Mr Vinod Kumar P
		Chairperson, Palakkad CPC
		Mr Sunny George
		Chairperson, Thejaswini CPC
		Prof Sasindran E
		Chairperson, Vadakara CPC
16.15-16.45	Discussion	
16.45-17.00	Tea Break	
17.00-18.15	Concluding Session	
	Venue: Vasco da Gama Hall	
17.00-17.10	Report on National Coconut Challenge and	Dr Saji Gopinath
	Prize Distribution to Winners	Chief Executive Officer,
	Prize Distribution to Winners	Chief Executive Officer, Startup Mission, Government of
	Prize Distribution to Winners	Chief Executive Officer, Startup Mission, Government of Kerala
17.10-17.20	Prize Distribution to Winners Summary on Production and Productivity	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar
17.10-17.20	Prize Distribution to Winners Summary on Production and Productivity	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board
17.10-17.20 17.20-17.30	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas
17.10-17.20 17.20-17.30	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board
17.10-17.20 17.20-17.30 17.30-17.45	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut Concluding Remarks	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board Shri E P Jayarajan
17.10-17.20 17.20-17.30 17.30-17.45	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut Concluding Remarks	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board Shri E P Jayarajan Minister for Industries, Sports, and
17.10-17.20 17.20-17.30 17.30-17.45	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut Concluding Remarks	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board Shri E P Jayarajan Minister for Industries, Sports, and Youth Affairs,
17.10-17.20 17.20-17.30 17.30-17.45	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut Concluding Remarks	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board Shri E P Jayarajan Minister for Industries, Sports, and Youth Affairs, Government of Kerala
17.10-17.20 17.20-17.30 17.30-17.45 17.45-18.00	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut Concluding Remarks Vote of Thanks	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board Shri E P Jayarajan Minister for Industries, Sports, and Youth Affairs, Government of Kerala Mr Sanjay M Kaul IAS
17.10-17.20 17.20-17.30 17.30-17.45 17.45-18.00	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut Concluding Remarks Vote of Thanks	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board Shri E P Jayarajan Minister for Industries, Sports, and Youth Affairs, Government of Kerala Mr Sanjay M Kaul IAS Managing Director,
17.10-17.20 17.20-17.30 17.30-17.45 17.45-18.00	Prize Distribution to Winners Summary on Production and Productivity Summary on Value Addition in Coconut Concluding Remarks Vote of Thanks	Chief Executive Officer, Startup Mission, Government of Kerala Dr R Ramakumar Member, Kerala State Planning Board Dr Jayan Jose Thomas Member, Kerala State Planning Board Shri E P Jayarajan Minister for Industries, Sports, and Youth Affairs, Government of Kerala Mr Sanjay M Kaul IAS Managing Director, Kerala State Industrial Development

Programme Schedule is subject to change.

Note: Presentation by Shortlisted candidates from the "National Coconut Challenge" contest will be conducted on Day 1 (November 02, 2019) at Beypore Hall.



GOVERNMENT OF KERALA

Abstract

Industries Department- Conduct of International Conference and Exhibition focusing on Coconut and Rubber sectors - Administrative Sanction accorded-Orders issued .

DEPARTMENT

G.O.(Rt)No. 252/2018/ID Dated, Thiruvananthapuram, 12/03/2018

- Read: 1 DO Letter No: SPB/119/17/VC dated 27.11.2017 of the Vice Chairman, State Planning Board.
 - 2 Correspondence resting with the Letter No. KSIDC/TVM/SBG/2018/2837 dated 08.02.2018 from the Managing Director, KSIDC.Thiruvananthapuram.

<u>ORDER</u>

Vide the letter read as 1st paper above, there is a suggestion from the Vice chairman ,State Planning Board to conduct International Conference and Exposition/ Exhibition focusing on Coconut and Rubber sectors in order to draw the attention of investors, to demonstrate innovative technologies, to exhibit value added products etc, may be in August & November , 2018

The Managing Director , Kerala State Industrial Development Corporation Ltd , in her letter read above has responded to the suggestion positively as the promotion exhibition and the conference aims at creating a platform for the promotion of Rubber and Coconut value added products in the state, create opportunities for entrepreneurship, forge strategic partnership, develop the sectors in terms of upgrading technology, diversifying product range, expanding market and imbibing the best practices being followed across the world.

KSIDC also suggests the Constitution two organizing Committees for this purpose.

Government have examined the matter in detail and are pleased to accord Administrative Sanction for conducting an International Conference and Exhibition / Exposition focusing on Coconut and Rubber sectors in August & November , 2018

Government are also pleased to order the following.

- KSIDC will be the Nodal Agency for Exhibitions and will support State Planning Board in the conduct of the conferences. The Organizing Committees for the conduct of the Conference will be constituted by the State Planning Board.
- The Hon'ble Chief Minister will be the Patron of the Advisory Committee with the Minister (Finance & Coir), the Minister(Agriculture), the Minister (Industries), the Vice Chairman(Planning Board) and the Chief Secretary as members.
- 3. The Organizing Committee for Coconut Exhibition will be as stated below.

File No.IND-J3/10/2018-IND

The Principal Secretary (Agriculture),

The Managing Director, Kerala State Industrial Development Corporation,

The Chairman, Coconut Development Board,

The Managing Director, KERAFED,

The Managing Director, KINFRA,

The Managing Director, Kerala State Coconut Development Corporation,

The Director of Industries & Commerce.

4. The Organizing Committee for Rubber Exhibition will be consisting of - .

The Principal Secretary(Agriculture) The Chairman, Rubber Board The Managing Director, The Kerala State Industrial Development Corporation The Executive Director, Rubber Board The Managing Director, KINFRA The Managing Director, Rubber Park The Director of Industries & Commerce.

By order of the Governor K.RADHAKRISHNAN JOINT SECRETARY

To:-

The Vice Chairman, State Planning Board, Thiruvananthapuram. The Director of Industries and Commerce, Thiruvananthapuram., The Managing Director, KSIDC, Thiruvananthapuram. The Chairman, Rubber Board The Chairman, Coconut Development Board The Executive Director, Rubber Board The Managing Director, KERAFED The Managing Director, Rubber Park The Managing Director, Kerala State coconut Development corporation The Managing Director, KINFRA, Thiruvananthapuram. The Principal Accountant General (Audit), Kerála, Thiruvananthapuram. The Accountant General (A & E), Kerala, Thiruvananthapuram. **Finance Department** Agriculture Department Information & Public Relation Department Stock file/Office copy

Copy to: The Principal Secretary to Hon. Chief Minister

The Private Secretary to Minister (Finance & coir) / The Private Secretary to Minister (Agriculture)

The Private Secretary to Minister (Industries)

The Additional Secretary to the Chief Secretary

CA to Principal Secretary (Agriculture)

CA to Principal Secretary (Industries)

CA to Secretary (Industries)

File No.IND-J3/10/2018-IND

Forwarded/By order

Section officer

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GOVERNMENT OF KERALA

Industries (J) Department 03/09/2019, Thiruvananthapuram

No: J3/10/2018-IND

From

Principal Secretary to Government

То

The Chief of Industry & Infrastructure Division State Planning Board.

The Director of Industries, Vikas Bhavan P.O, Thiruvananthapuram



The Managing Director, Kerala State Industrial Development Corporation Ltd, Keston road, Kowdiar, Thiruvananthapuram-3

The Managing Director, KINFRA Sasthamangalam P.O Thiruvananthapuram

The CEO,K-Bip, 2, Vidya Nagar, Opposite Police Ground, Thycaud P.O,Thiruvananthapuram

Sir,

Sub: Industries Department - International Conference and Expo on Coconut Development - rescheduled- intimating - reg

R: note 4 send 47th Chie R: note 4 send 49n Chie

File No.IND-J3/10/2018-IND

1/3853300/2019

Ref: 1.G.O. (Rt) No. 549/2019/ID dated 24/06/2019. 2.D.O.No.SPB/54/2017-I&I dated 19/08/2019 from Principal Secretary, Planning & Economic Affairs Dept. and Member Secretary, Kerala State Planning Board.

I am to invite your attention to the reference cited and to inform that the International Expo and Conference on Coconut Development scheduled to be conducted on the 17th & 18th August in Kozhikode, has been rescheduled to be held on the 2nd &3rd of November, 2019.

> Yours Faithfully, NAVIN KRISHNAN.G.I UNDER SECRETARY

For Principal Secretary to Government.

Approved/for ssue,

Section Officer.

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Kerala State Industrial Development Corporation Limited Keston Road, Kowdiar, Thiruvananthapuram 695 003, Kerala, India Tel: +91-471-2318922, Fax: +91-471-2315893, Email: ksidc@vsnl.com, www.ksidc.org CIN: U45309KL1961SGC001937

Ref: KSIDC/MDO/2019/ 582.

OFFICE ORDER

19.06.2019

Sub: International Conference & Exposition on Coconut Ref: Office Order no. KSIDC/MDO/2018/1196 dtd. 09.07.2018

KSIDC was designated as the nodal agency for organizing the International Conference & Exposition on Coconut Development scheduled to be held from the 6" of September 2018 to the 7th of September 2018.

In this regard, KSIDC vide office order referred above had constituted internal committees to provide all infrastructural and allied support facilities for successful conduct of the event. However, the event was postponed due to the flood situation in the State.

Now, it has been decided to conduct the event on 17th and 18th of August, 2019 at Hotel Taj Gateway, Kozhikode, Kerala. In this context, the committees constituted vide office order referred above, stands modified to the following effect to ensure that the event is conducted in a befitting manner.

The Heads of the respective committees are advised to ensure that work allocated to them is carried out smoothly and efficiently.

a) Venue Arrangement and Infrastructure				
Committee Members	Responsibilities			
 Shri. Aravindakshan K. CFO & DGM Shri. M T Binil Kumar, AGM Shri. Varghese Malakkaran, AGM (IT) Shri. B Nithesh, Manager Shri. B Nithesh, Manager Shri. Rithu K S, DM Shri. Bivin Babu, AM Shri. Nandan P V. Manager, Waste to Energy Project Shri. Shan B L, Project Engineer 	 Arrangement of main venue, Stage, Backdrop, parallel session venue and its back drop, AV requirements, Room for VIPs, Branding, Signage and other related activities etc. The committee should ensure the overall arrangements for Inaugural Session, Parallel Sessions, Valedictory Session and Exhibition Statt The Venue Arrangement and Infrastructure Committee to ensure various arrangements at the venue and its premises with attractive at the overall venue and its premises with attractive at the state. 			

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 9. Shri Suresh Babu, Business Coordinator 10. Two officials being nominated by Kerala State Planning Board A + 1 	banners. It is to be ensured that premises of the venue are eye catching in appearance. Clea appropriate signage to be located regarding various halls, entrances and exits, Parking, Toilet and First aid post etc.
b) Registration	
 Shri. R Ravichandran, DGM Shri. B. G. Biju, AGM Smt. C N Ambily, AGM 	 Close follow up with State Planning Board and obtain the final list of invitees. Lisise with event manager for the timely deliver.
 Smt. Sini K Thoppil, AGM Shri Nithesh B, Manager Shri. Ratheesh S, Manager Smt. Soumya Thomas, Manager Shri. Adel K M. DM 	 Chaise with event manager for the unitry derivery of registration kit and other items including food coupons. Ensure the filling of registration kit on the previous day of the event.
 Shiii, Ader K M, DM Smt. Sini Azeez, DM Shri. Prashant Prathap, DM Shri. Aneesh C, DM Shri. Jessil Ummer C A, DM Two officials being nominated by Kerala State Planning Board 	 Ensure adequate manpower at the registration counter. Ensure registration kits to VVIPs, VIPs, special invitees and Speakers Liaise with the social media partner and maximize pre-registration.
	 Provide delegate passes with names printed for the pre-registered delegates. Liaise with DIC and ensure that they send frequent e-mailers to all invitees ensuring prevent registration and confirmation.
And the second second second	 Ensuring adequate number of registration counters at the venue - coordinating with infrastructure committee in this regard. Ensure availability of adequate number of adequate nu
and a second framework and	 delegate (VIP/Speakers/Officials) passes and proper distribution. Arrange sufficient copies of speaker booklets to be included in the kits
	 Ensure the presence of adequate number of volunteers for the event.

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c) Finance and Accounts				
Committee Members 1. Shri. K Aravindakshan, DGM 2. Smt. Divya S, DM	 Responsibilities Monitoring the utilization of funds & overseein the expenditure 			
 Shri. Aneesh C, DM ' Smt. Saritha S S, AM 	 To make timely payments on the basis of recommendation of the finance committee to be constituted by Government. Ensure that the total expenditure is well within the budget limit. Ensuring the timely auditing of finances as soon a the event is over. 			
d) Exhibition				
Committee Members Shri. R Prasanth, DGM Shri. Rajesh Jacob, AGM Shri. Ebimon P, Manager Shri. Ebimon P, Manager Shri. Nithesh B, Manager Shri. Ashik Sheik, DM Shri. Emil Joseph, AM Shri. Antony M, Project Engineer Two officials being nominated by Kerala State Planning Board 	 Responsibilities To obtain the complete list of exhibitors includin international exhibitors. Sending invite to all exhibitors includin international exhibitors. Continuous follow up with the exhibitors and ensuring their participation. Communicating with the exhibitors on the guidelines of exhibition, stall space, time to report at the exhibition venue etc. Ensuring the setting up of adequate number of stalls in the exhibition area. Ensuring the infrastructure for each exhibitor such as stall space, facia to be displayed etc. Liaise with transportation and accommodation committee for accommodation and transportation 			
Accommodation Travel and Transpo	of international exhibitors.			
and the Marchan	Despensibilities			
KBIP will be the coordinating a	Close follow up with State Planning Board and			
agency Shri. Varghese Malakkaran, AGM	obtain the final list of invitees. Ensure arrangements of accommodation, trave			
(IT) . Shri. Suresh Babu, Business	and transportation are made for VVIPs, VIPs an Speakers for the inaugural, plenary, breakout an			

in

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 Shri. Binaf S, Accounts Officer, Life Sciences Park Two officials being nominated by Kerala State Planning Board 	 Arrangement of accommodation and travel for senior officials, bureaucrats and Heads of Departments. Arrange travel/accommodation for officials from various agencies Ensure adequate number of rooms at hotels close to the venue. Obtain the travel itinerary of speakers from the speaker selection and invite committee, to arrange adequate number of vehicles for their pick up and drop. Ensure escort officers/volunteers if needed.
f) Food & Catering	
 Shri. Jose Kurian, AGM Shri. Adel K M, DM Shri. Anush Joseph, DM Two officials being nominated by Kerala State Planning Board 	 Proposed menu for the VVIPs/VIPs/Speakers and the other participants to be finalized. Finalize the menu for two days. Ascertain the total number of participants for two days (1stday lunch& dinner; 2nd day – breaktast. lunch & dinner) Ensure adequate numbers of counters are available with sufficient food items to avoid crowding. Ensure adequate food arrangements (quality and quantity) are made throughout the event. Identify separate food serving areas for VIPs. Officials and Exhibitors and ensure proper signage at each location. Liaise with registration committee and ensure adequate number of food coupons. Coordinate & Distribute the Food coupons for other officials such as Police, Drivers etc.
g) Reception, Publicity and Promotion	
Committee Members	Responsibilities
 KINFRA will be the co-ordinating agency Shri. G Unnikrishnan, GM (),) 	Ensure advertisements and publicity in media viz . dailies, radio etc.

Page 4 of 6

 Smi, Lakshmi T Pillal, DM Smi, Ashitha Nazeer, AM Smi, Lakshmi, Project Engineer, Life Sciences Shri, Jijith Raj Prasanna', BDE 	6	Ensure press release is given so as to get the event a national coverage. Ensure installation of hoardings and translites in various identified locations in coordination with event manager.
7. Two officials being nominated by Kerala State Planning Board	•	Ensure arrangements are done for covering the medians near the venue with flags, banners etc. bearing image of the Hon'ble CM and Hon'ble Industries & Agriculture Minister.
P and the second second second	•	Ensure adequate publicity for the event through social media platforms.
	e	Ensure a separate lounge at the venue for VVIPs,
		Receive the VVIPs, VIPs, special invitees and lead
		them to the main venue. Ensure all arrangements are made for the VVIPs.
		VIPs, special invitees and other guests

h)	Speaker	Selection	and Invite
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Committee Menibers	Responsibilities
 Shri. K Suresh Kumar, Company Secretary & DGM Shri. P C Harikesh, Project Director, Waste to Energy Project Smt. Suni P S, Manager Shri. Jackson Jose, DM Shri. Anoop P, DM Smt. Sayoojya Nair S R, CS Management Trainee Smt. Ansila S, EA to Project Director, Waste to Energy Project Two officials being nominated by Kerala State Planning Board 	 Co-ordinate with speakers (Conference) identified by the Planning Board Ensure invitations are sent to all the speakers from authorities. Ensure constant follow up and confirmation of speaker participation. Ensure presence of suitable replacement speakers in case an existing identified speaker does not confirm. Keep constant touch with the speakers to obtain travel itinerary and accommodation requirements. Obtain details of speaker, prepare speaker booklets and share the same with registration committee. Coordinate with various Committees and provide all required details regarding speakers.
DIG 1 II linete all activities compa	sted with invitations and ensuring participation of all

DIC shall coordinate all activities connected with invitations, and ensuring participation of the invitees viz., MNCs, Business houses, Industrialists, Trade Bodies, farmer representatives etc. for the event.

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Committee Members	Responsibilities	
 Smt. V R Usha, DGM Shri. Ebimon P K, Manager Shri. Jackson Jose, DM Smt. Anju Joseph, AM Smt. Ashitha Nazeer, AM Smt. Ashitha Nazeer, AM Smt. Emil Joseph, AM Smt. Ansila Shakeer, EA Smt. Sayoojya Nair S R, Management Trainee Smt. Karthika D S, Management Trainee Smt. Neeraja M, BDE Two officials being nominated by 	 To be present at various sessions und conference of the event. To note down salient points put forward by the speakers, queries raised by participants, response by senior officials and recommendations & suggestions arising out o the various discussions/deliberations. To prepare a compendium of the above point enabling to chart the way forward for transforming the coconut sector in Kerala 	

Marmleuperenth Dr. Sharmila Mary Joseph 19/6/6 Managing Director

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To:

,SI

- 1. All concerned
- 2. Notice Boards
- 3. EA to MD
- 4. PS to ED

Page 6 of 6



GOVERNMENT OF KERALA

Abstract

Industries Department- International Conference and Exposition on Coconut 2019 – Conduct of the event and Constitution of Committees - Orders issued

INDUSTRIES (J) DEPARTMENT

G.O.(Rt) No. 549/2019/ID

Dated, Thiruvananthapuram, 24.06.2019

5

Read: (1) G.O. (Rt) No. 252/2018/ID dated: 12.03.2018 (2) G.O. (Rt) No. 835/2018/ID dated: 17.07.2018 (3) G.O. (Rt) No. 540/2019/ID dated: 19.06.2019

ORDER

Administrative sanction was accorded for conducting an International Conference and Exposition on Coconut and Rubber in August & November 2018; and for constituting Organizing and Exhibition committees for the events as per orders read as 1st and 2nd paper above. However, the said events were postponed on account of the floods that ravaged the state in August 2018.

2. Now, as per Government Order read as 3rd paper above, Administrative Sanction has been issued to KSIDC for undertaking Investment facilation & Industrial promotion activities at a cost of **Rs. 1000.00 lakh (Rs.Thousand Lakh** only) by meeting the expenditure from the Head of Account 2885-60-190-91(Kevenue). Out of which **Rs. 200 lakh (Rs. Two Hundred lakh** only) is earmarked exclusively for conducting an **International Expo on Coconut & Rubber.**

3. Government of Kerala is accordingly organizing the International Conference and Exposition on Coconut on 17th and 18th of August, 2019 at Hotel Taj Gateway, Kozhikode, Kerala. The event is being co-ordinated by industries Department,KSIDC and State Planning Board. The conference and expositior envisage the development of a strategy for creating a sustainable growth of the coconu: sector with regard to production, productivity and value addition of coconut, as also its allied products.

4. The conference is intended to be a platform for farmers in coconut sector to gather inputs on latest technical advancements, as also for processors, manufacturers, suppliers, fabricators and entrepreneurs in the sector to showcase their products and services. The conference is envisaged to have presentations, plenary sessions, breakout sessions, panel discussions etc. The exposition is also envisaged to be the centre stage for business houses to showcase the latest technologies and innovations in the sector.

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5. The organisation of the the event is being co-ordinated by the Industries Department, Kerala State Industrial Development Corporation Ltd. (KSIDC) and State Planning Board. The Kerala Industrial Infrastructure Development Corporation Ltd. (KINFRA), Directorate of Industries and Commerce (DIC) and Kerala Bureau of Industrial Promotion (KBIP) will work in close co-crdination with KSIDC for the smooth conduct of the event.

6. Government have examined the matter in detail and are pleased to accord sanction for the conduct of the event and for utilising an amount **Rs. 100 Lakh (Rupees Hundred Lakh** only), from the total budgetary allocation to KSIDC during the current financial year under the Head of Account 2885-60-190-91(Revenue).

7. Further, in order to ensure the smooth and successful conduct of the event, various agencies under Industries Department are assigned responsibilities as indicated below:

i. Kerala State Industrial Development Corporation Ltd. (KSIDC)

- KSIDC shall be in-charge of organizing the exposition being held as a part of the event.
- KSIDC shall extend support to State Planning Board for the conduct of the Conference.
- KSIDC shall engaged a suitably experienced Event Manager for the conference and exposition from the emparelled agencies of KSIDC.
- KSIDC shall ensure that all requisite arrangements viz., AV arrangements, mementos, stage arrangements etc. are made at the venue.
- The Finance Committee constituted for the purpose shall examine all aspects related to expenditure of the different activities of the event and recommend expenses and payments for the same, based on which KSIDC shall approve payments.
- ii. Directorate of Industries and Commerce (DIC)
 - DIC shall co-ordinate all activities connected with invitations, and ensure participation of all invitees viz., MNCs, Business houses, Industrialists, Trade Bodies, Farmer representatives etc. for the event.
- iii. Kerala Industrial Infrastructure Development Corporation (KINFRA)
 - KINFRA shall be in charge of reception of invitees for the conference and exposition.
 - KINFRA will also be in charge of publicity & promotion for the conference and exposition.

- KINFRA shall finalise design for branding and publicity materials viz., posters, banners, pamphlets, brochures, video and FM ads, if any, for the conference and exposition and make arrangements for getting the same printed for the conference and exposition.
- KINFRA shall ensure that the reception o invitees and guests is held in a commendable manner.
- KINFRA shall co-ordinating all activities related to social media publicity
 of the conference and exposition.
- iv. Kerala Bureau of Industrial Promotion (KBIP)
 - KBIP shall be in charge of accommodation and conveyance to be provided to VIPs, Panelists, Speakers, Guests, Officials etc., who are attending the Conference and the exposition.

8. The following Committees are also constituted to ensure proper organisation of the event and for proper oversight and fir.ancial prudence.

(i) Finance Committee

In order to ensure proper utilization of funds a ailable for the conduct of the event, a Finance Committee as below is constituted to recommend and approve expenditure for the event.

- Director, CPMU Chairperson
- Executive Director, KSIDC- Co Chairperson
- Managing Director, KINFRA
- Chief Executive Officer, KBIP
- Chief Financial Officer, KSIDC
- Chief (Industry & Infrastructure Division), State Planning Board
- Additional Director, DIC

(ii) Key Event Committee

A Key Event Committee comprising senior officials from Planning Board, KSIDC, KINFRA & DIC shall be constituted to co-ordinate the inaugural session, valedictory session and the cultural programme.

9. All the aforementioned agencies and conmittees shall work in close coordination under the overall monitoring, supervision and guidance of the Vice Chairman, Kerala State Planning Board, Principal Secretary (Industries, Norka &Ports) and Managing Director, KSIDC to ensure the successful conduct of the event.

(By order of the Governor) Dr. SHARMILA MARY JOSEPH IAS SECRETARY TO GOVERNMENT.

To

1. The Vice Chairman, Kerala Sate Planning Board

2. The Additional Chief Secretary (LSGD)

3. The Principal Secretary (Agriculture) & Agriculture Production Commissioner

4. The Principal Secretary (Planning and Economic Affairs)

5. The Chairman, Coconut Development Board or his/her nominee

6. The Managing Director, Kerala State Industrial Development Corporation Ltd. 7. The Secretary (Industry - Coir)

8. The Director, Directorate of Industries and Commerce and Executive Director, Kerala Bureau of Industrial Promotion (KBIP)

9. The District Collector, Kozhikode District

10. The Director, Directorate of Agriculture

11. The Managing Director, Kerala Industrial Infrastructure Development

12. The Chief Executive Officer, Kerala Bureau of Industrial Promotion (KBIP)

13. The Chief Coconut Development Officer, Coconut Development Board

14. The Managing Director, KERAFED

15. The Principal Accountant General (Audit / A&E) Kerala, Thiruvananthapuram

16. The District Treasury Officer, Thiruvananthapurain 17. Department of Finance

18. Director, Department of Planning and Economic Affairs

19. Ir.formation and Public Relation (Web & New Media) Department (For publishing in the official website) 20. Office Copy / Stock File

"orwarded/ HyOrder Section Officer

11 11







GOVERNMENT OF KERALA

Abstract

Industries Department - International Conference and Exposition on Coconut 2019 - Conduct of the event and Constitution of Committees -formation of a new Committee- Modified Orders issued.

INDUSTRIES	(J) DEPARTMENT
G.O.(Rt)No.696/2019/ID	Dated, Thiruvananthapuram, 26/07/2019

Read 1. G.O.(Rt) No.549/2019/ID dated 24/06/2019.

2. Note dated 22/07/2019 from the Managing Director, Kerala State Industrial Development Corporation Ltd.

ORDER

In view of the recommendation of the Managing Director, Kerala State Industrial Development Corporation Ltd., vide Note read above, government are pleased to reconstitute a Key Event Committee to co-ordinate the inaugural session and the cultural programme connected with the proposed Coconut Expo in August 2019, consisting of the following members.

- 1. Principal Secretary (Planning & Economic Affairs) and Member Secretary, Kerala State Planning Board
- 2. Principal Secretary I (Industries and Commerce)
- 3. Managing Director, KSIDC
- 4. Director of Industries & Commerce
- 5. Managing Director, KINFRA

The G.O read above is modified to the above extent.

(By order of the Governor) K.RADHAKRISHNAN ADDITIONAL SECRETARY

Anel Complex Chief The Principal Secretary (Planning & Economic Affairs) and Member-Secretary, Kerala State Planning Board. The Director of Industries & Commerce, Thiruvananthapuram.

The Managing Director, Kerala State Industrial Development-Corporation Limited (KSIDC), Thiruvananthapuram. The Managing Director, Kerala Industrial Infrastructure Development Corporation(KINFRA). The Principal Accountant General (A&E) /(Audit), Thiruvananthapuram. The District Treasury Officer, Thiruvananthapuram. Finance (Planning)Department.

Planning & Economic Affairs Department. The Director, Information & Public Relations Department. (for publishing in the official website) Stock File / Office Copy.

Forwarded /By order Section Officer



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GOVERNMENT OF KERALA

Abstract

Industries Department- International Conference and Exposition on Coconut- Conduct of the event and Constitution of Committees -Revised Orders issued

INDUSTRIES (J) DEPARTMENT

G.O.(Rt) No. 929/2019/1D

Dated. Thiruvananthapuram, 25.09.2019

- Read:- 1. G.O. (Rt) No. 549/2019/ID dated: 24.06.2019
 - 2. G.O. (Rt) No. 696/2019/ID dated: 26.07.2019
 - 3. D.O. Letter No. SPB / 54/2017-I & 1 dated 19th August 2019 from the Planning & Economic Affairs Department
 - 4. Letter No. KSIDC/TVPM/ IP-124/2019/1216 dated 06/09/2019 from the Managing Director, Kerala State Industrial Corporation Development Ltd.

ORDER

Although Administrative Sanction was accorded for conducting an International Conference and Exposition on Coconut in August 2019, as per government order read as 1st paper above, the said events had to be postponed against the backdrop of the floods that ravaged the state in August 2019. Subsequently, vide G.O. read as 2nd paper above. Government re-constituted a Key Event Committee to co-ordinate the inaugural and cultural programmes.

2. Vide letter read as 3rd paper above, the Planning & Economic Affairs Department informed that the International Expo and Conference on Coconut Development had been postponed to November 2nd and 3rd, 2019.

3. The Managing Director, KSIDC has now informed that the estimate for the conduct of the event comes to Rs. 148.00 Lakh which will exceed the existing budgetary allocation of Rs. 100.00 Lakh. Hence it has been requested to issue orders to the effect that the additional expenses over and above Rs. 100.00 Lakh shall be shared by KSIDC. KINFRA and K- Bip.

4. The Government have examined the matter in detail and are pleased to revise the order read as 1st paper above, as follows.

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(1) The two day International Conference and Exposition on Coconut will be conducted on the 2nd and 3rd OleoN (Mark 1997) (1

Kozhikode, Kerala.



(2) The additional expenditure over and above the sanctioned amount of Rs. 100.00 Lakh will be met jointly by M/s. Kerala State Industrial Development Corporation Ltd. (KSIDC),Kerala Industrial Infrastructure Development Corporation Ltd.(KINFRA)and Kerala Bureau of Industrial Promotion (K-BIP).

5. The following Committees are also reconstituted to ensure proper organisation of the event and for ensuring financial prudence.

Finance Committee

- · The Chief (Industry & Infrastructure Division). State Planning Board-Chairperson.
- · Managing Director, KINFRA -Co-Chairperson
- Chief Executive Officer, KBIP
- Additional Director, DIC
- Chief Financial Officer, KSIDC

Key Event Committee

- Principal Secretary (Planning & Economic Affairs) and Member Secretary, Kerala State Planning Board
- Principal Secretary I (Industries and Commerce)
- Managing Director, KSIDC
- Director of Industries & Commerce
- 6. The G.O. read as 2nd paper above is also modified to the above extent.

(By the order of the Governor)

NAVIN KRISHNAN G.1 Under Secretary to Government

To To To To To To

- 1. The Vice Chairman, Kerala Sate Planning Board.
- 2. The Additional Chief Secretary (LSGD) .
- 3. The Principal Secretary (Agriculture) & Agriculture Production Commissioner .
- 4. The Principal Secretary (Planning and Economic Alfairs).
- 5. The Chairman, Coconut Development Board.
- 6. The Managing Director, Kerala State Industrial Development Corporation Ltd(KSIDC)
- 7. The Secretary (Industry-Coir).
- 8. The Director, Directorate of Industries and Commerce and Executive Director, Kerala Bureau of Industrial Promotion (K-BiP).
- 9. The District Collector, Kozhikode.
- 10. The Director, Directorate of Agriculture .
- 11. The Managing Director, Kerala Industrial Infrastructure Development Corporation (KINFRA).
- 12. The Chief Executive Officer, Kerala Bureau of Industrial Promotion (K-BiP)

- 13. The Chief Coconut Development Officer, Coconut Development Board.
- 14. The Managing Director, KERAFED .
- 15. The Principal Accountant General (Audit/A&E) Kerala, Thiruvananthapuram .
- 16. The District Treasury Officer, Thiruvananthapuram.
- 17. Finance Department.
- 18. Director, Department of Planning and Economic Affairs
- 19. Information and Public Relation (Web & New Media) Department (For publishing in the official website) 20. Office Copy / Stock File

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Forwarded By order Section Officer



PROCEEDINGS OF THE MEMBER SECRETARY, STATE PLANNING BOARD (Present: Dr A Jayathilak IAS)

Sub: - International Conference & Expo on Coconut Development- Constitution of Internal

Committee- Orders issued- reg.

Ref: - 1. G.O (Rt.) No.252/2018/ID, dated Thiruvananthapuram, 12.3.2018.

 Order No. KSIDC/MDO/2019/582 dated 19.6.19 of the Managing Director, KSIDC.

Order No: SPB/54/2017-I&I dated:12.7.2019

The International Conference and Exposition on Coconut is scheduled to be held on August 17-18, 2019 at the Taj Gateway, Kozhikode. This was earlier scheduled to be held on September 6 and 7, 2018 at The Raviz Kadav, Kozhikode, Kerala and was postponed in the light of the unprecedented level of monsoon rainfall in August 2018.

Vide order 2nd cited, the Managing Director, KSIDC, the Nodal partner for Exhibition, has constituted internal committees in KSIDC to provide all infrastructural and allied support facilities for the successful conduct of the International Conference & Exposition. The Committee also includes officials from State Planning Board.

SI. No.	Name of the Committee	Officers from State Planning Board
1	Venue arrangement and Infrastructure	 Shri Anilkumar B M, Assistant Director, Plan Co- Ordination Division Dr Anil Kumar C, Assistant Director, Agriculture Division.
2	Registration	 Ms Dhanya S Nair, Assistant Director, Agriculture Division Ms Roshni Padmanabhan, Research Officer, Agriculture Division
3	Finance and Accounts	 Shri. Manilal R, Joint Director, Industry and Infrastructure Division Shri V Saji, Research Officer, Social Service Division
4	Exhibition	 Shri Vincent Sebastian, Assistant Director, Plan Co-Ordination division Shri Sudesh TP, Research Officer, Social Service Division
5	Accommodation, Travel and transportation	 Shri. G.T Shibu, Assistant Director, Industry and Infrastructure Division Dr. Praveen P, Research Officer, Decentralised Planning Division
6	Food and Catering	 Shri NK Rajendran Joint Director, Agriculture Division Ms Anila T, Research Officer, Decentralised Planning Division

In line with the above, it has been decided to nominate the following officers of State Planning Board to be member of the different committees constituted by KSIDC.

7	Reception, Publicity and Promotion	 Ms Deepa Chandran, Assistant Director, Industry and Infrastructure Division Ms Dhanya Chandrasekhar, Research Assistant, Industry and Infrastructure Division
8	Speaker Selection and Invite	 Ms Roshni GC, Agronomist, Agriculture Division Ms Lijamol M David, Research Officer, Industry and Infrastructure Division
9	Documentation Committee	 Dr Manjusha, Research Assistant, Decentralised Planning Division Shri Saneesh, Research Officer, Evaluation Division

The Committee members are requested to participate in the meetings of the committees and advised to ensure that, the work allocated to them is carried out smoothly and efficiently for the successful conduct of the International Conference & Exposition.

Sd/-Dr A Jayathilak IAS Member

Secretary

To

1. Persons concerned

2. Shri Sanjay Kaul IAS, Secretary, Port (Managing Director, KSIDC)

Copy to:-

- 1. All Members, SPB
- 2. PS to VC
- 3. PA to MS
- 4. EA to VC
- 5. Chief of all Divisions
- 6. Sr. A.O/F.O
- 7. CA to Chief, I&I Division
- 8. Stock file/ Office Copy

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Chief (I&I Division)



PROCEEDINGS OF THE MEMBER SECRETARY, STATE PLANNING BOARD (Present: Dr.A.Jayathilak IAS)

- Sub: International Conference & Expo on Coconut Development Deputing officials of State Planning Board – Sanctioned - Orders issued - reg.
- Ref: 1.G.O (Rt) No.252/2018/ID dated Thiruvananthapuram 12/03/2018
 - 2. This office order No. SPB/556/2018-E1 dated 25/05/2018 & 25/04/2019.
 - Order No.KSIDC/MDO/2019/582 dated 19/06/2019 of the Managing Director, KSIDC.
 - 4. This Office Order of even No. dated 12/07/2019.

Order No.SPB/54/2017-I&I dated: /08/2019

As per Govt. order read above, Govt. has accorded administrative sanction for conducting an International Conference and Exhibition/Exposition on Coconut and Rubber sectors at Kozhikode & Ernakulam respectively. The International Conference & Exposition on Coconut is scheduled to be held on August 17-18, 2019 at the Taj Gateway, Kozhikode. This was earlier scheduled to be held on September 6 & 7, 2018 at The Raviz Kadav, Kozhikode, Kerala and was postponed in the light of the unprecedented level of monsoon rainfall in August 2018.

KSIDC will be Nodal Agency for Exhibitions and will support State Planning Board in the conduct of the conference.

Vide order 2nd above; a Committee has been constituted in the State Planning Board with Sri. Joy N.R, Chief, Industry & Infrastructure Division as Principal Co-ordinator, Smt.Gayathri Nair IES, Economic Adviser to Vice Chairperson & Shri.Nageesh.S.S, Chief, Agriculture Division as Co-ordinators and Sri. Arun Shyamnath, Research Officer, Agriculture Division as Assistant Co-ordinators to execute the arrangements related to the International Coconut Conference.

The Managing Director, KSIDC, the Nodal partner for Exhibition, vide order 3rd cited, has constituted internal committees in KSIDC to provide all infrastructural and allied support facilities for the successful conduct of the International Conference and Exposition. The Committee also includes officials from State Planning Board.

In line with the above, vide order 4th cited, it has been decided to nominate officers of State Planning Board (List appended) to be members of the committee's formed by KSIDC viz, Venue arrangement and infrastructure, Registration, Finance and Accounts, Exhibition, Accommodation, Travel and Transportation, Food and Catering, Reception, Publicity and Promotion Documentation, Speaker Selection Committees constituted by KSIDC.

The Committee members are entrusted to provide infrastructural and allied support facilities for successful conduct of the event. The works allocated to them are to be carried out smoothly and efficiently for the successful conduct of the International Conference and Exposition.

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As part of the Conference and Expo, VC's office has requested to include, another seven officials apart from Committee members; who are attached to VC's office, which is found essential for facilitating the smooth conduct of the Conference.

In the above circumstances, sanction is hereby accorded for deputing officers as per list enclosed, for participating in the International Conference and Exposition on Coconut, scheduled to be held on August 17-18 at the Taj Gateway, Kozhikode.

The expenditure in this connection will be met from the Head of Account 3451-00-101-93 "Preparation of Plans and Conduct of Surveys and Studies" during 2019-20 Budget provision.

> Dr. A. Jayathilak IAS Member Secretary

То

Persons concerned

Copy to:-

- 1. All Members, SPB
- 2. PS to VC
- 3. PA to MS
- 4. EA to VC
- 5. Chief of all divisions
- 6. Account General (A & E), Kerala (with C/L)
- 7. Sr. AO/FO
- 8. CA to Chief, I&I Division
- 9. Stock file/Office Copy

SL No	Name	Designation/Address
1	Smt Gayatri Nair IES	Economic Advisor to VC, Kerala State Planning Board
2	Shri Joy N.R	Chief, Industry and Infrastructure Division, Kerala State Planning Board
3	Dr Santosh Vidhyadharan	Chief, Perspective Plan Division, Kerala State Planning Board
4	Shri Sanal Kumar S.R	DPD, State Planning Board
5	Shri Harshan Tee Pee	Special PS to VC, Kerala State Planning Board
6	Shri Manilal R	JD, Industry and Infrastructure Division
7	Shri N K Rajendran	JD, Agriculture Division
8	Smt Roshini G C	Agronomist, Agriculture Division
9	Smt Deepa Chandran	AD, Industry and Infrastructure Division
10	Smt Dhanya S Nair	AD, Agriculture Division
11	Shri Vincent Sebastian	AD, Plan Co-Ordination Division
12	Shri G T Shibu	AD, Industry and Infrastructure Division
13	Dr Anil Kumar C	AD, Agriculture Division
14	Shri Anil Kumar B M	AD, Plan Co-Ordination Division
15	Dr Praveen P	AD, Decentralised Planning Division
16	Shri V Saji	RO, Social Services Division
17	Shri Arun Shyamnath	Research Officer, Agriculture Division
18	Shri Saneesh	RO, Evaluation Division
19	Smt Roshni Padmanabhan	RO, Agriculture Division
20	Shri Sudesh T P	RO, Social Services Division
21	Smt Lijamol M David	RO, Industry and Infrastructure Division
22	Smt Anila T	RO, Decentralised Planning Division
23	Smt Dhanya Chandrasekhar	RA, Industry and Infrastructure Division
24	Dr Manjusha P	RA, Decentralised Planning Division
25	Shri Vijayasuryan C K	Technical Assistant, VC's Office, Kerala State Planning Board
26	Smt Susmita Vinod	Technical Assistant, VC's Office, Kerala State Planning Board
27	Shri Bipin Chandran	Technical Assistant, VC's Office, Kerala State Planning Board
28	Shri Reghunathan M	Additional Private Secretary to VC, VC's Office
29	Shri Akhil Bharathan	PA to VC, Kerala State Planning Board
30 5	Shri Ibrahim Siddique	Technical Consultant, State Planning Board
31 5	Shri Ajeesh	Office Attendent, State Planning Board
32 5	Shri Deepak Johnson	Ph D Scholar, Indian Statistical Institute 8th Mile, Mysore Road, RVCE Post, Bangalore 560 059

Officials from State Planning Board



PROCEEDINGS OF THE MEMBER SECRETARY, STATE PLANNING BOARD (Present: Dr A Jayathilak IAS)

- Sub: International Conference & Expo on Coconut Development- Deputing officials of State Planning Board- Sanctioned- Modified orders issued- reg.
- Ref: 1. G.O (Rt.) No.252/2018/ID, dated Thiruvananthapuram, 12.3.2018.
 - 2. Note No. SPB/92/2019-VC dated 14.8.2019 of the SPS to Vice chairperson.
 - Lr No. J3/10/2018-IND dated 3.9.2019 of the Principal Secretary, Industries (J) Dept.
 - 4 This office orders of even No. dated 30.9.2019 & 29.10.2019.
 - 5. This office order of even No. dated 2.8.2019.

Order No: SPB/54/2017-I&I dated: 29.10.2019

As per Govt. order read above, Govt. accorded administrative sanction for conducting an International Conference and Exhibition/Exposition on Coconut and Rubber sectors at Kozhikode & Ernakulam respectively. It was decided to hold the Exhibition/Exposition on Coconut on September 6 and 7, 2018 at The Raviz Kadav, Kozhikode, Kerala. But due to unprecedented level of monsoon rainfall in August 2018, the Conference was postponed to August 17-18, 2019 at the Taj Gateway, Kozhikode.

Vide reference 2nd & 3rd cited, the meeting was rescheduled to November 2-3, 2019 in the light of the extreme heavy rainfall events and subsequent floods in August 2019.

In view of the rescheduled dates (November 2nd & 3rd, 2019) of the Conference, and the changes made in the internal Committees vide orders 4th cited, sanction is hereby accorded for officers from State Planning Board (list appended) to attend the International Conference and Exposition on Coconut, scheduled to be held on November 2-3, 2019 at the Taj Gateway, Kozhikode.

In the circumstance, order deputing Officers from State Planning Board vide reference 5th cited, stands modified.

The Committee members are entrusted to participate in the meetings of the committees and advised to ensure that, the work allocated to them is carried out smoothly and efficiently for the successful conduct of the International Conference & Exposition.

The expenditure in this connection will be met from the Head of Account 3451-00-101-93 "Preparation of Plans and Conduct of Surveys and Studies" during 2019-20 Budget provision.

> Sd/-Dr A Jayathilak IAS Member Secretary

То

Persons concerned

Copy to:-

- 1. All Members, SPB
- 2. PS to VC
- 3. PA to MS
- 4. EA to VC
- 5. Chief of all Divisions
- 6. Account General (A&E), Kerala (with C/L)
- 7. Sr. A.O/F.O
- 8. CA to Chief, I&I Division
- 9. Stock file/ Office Copy

Forwarded/ by order

Chief

Industry & Infrastructure Division

	Officials from S	tate Planning Board
S No.	Name	Designation/Address
1	Smt Gayatri Nair	Economic Advisor to VC, Kerala State
		Planning Board
2	Shri Joy NR	Chief, Industry and Infrastructure
		Division, Kerala State Planning Board
3	Dr Santosh Vidhyadharan	Chief, Perspective Plan Division, Kerala
	and the second sec	State Planning Board
4	Shri Nagesh S S	Chief, Agriculture Division
5	Shri Sanal Kumar S R	Chief (i/c), DPD, State Planning Board
6	Shri Harshan T.P	Special Private Secretary to the VC,
	R.C. see. Sciences 1 1	Kerala State Planning Board
7	Shri Pradeep Kumar P	JD, Industry and Infrastructure Division
8	Shri N K Rajendran	JD, Agriculture Division
9	Smt Roshini GC	Agronomist, Agriculture Division
10	Smt Deepa Chandran	AD, Industry and Infrastructure Division
11	Smt Dhanya S Nair	AD, Agriculture Division
12	Shri Vincent Sebastian	AD, Plan Co-Ordination Division
13	Shri M P Madhusoodhanan Nair	AD, Industry and Infrastructure Division
14	Shri GT Shibu	AD, Industry and Infrastructure Division
15	Shri Kalamudheen	AD, Industry & Infrastructure Division
16	Smt Roshni Padmanabhan	RO, Agriculture Division
17	Shri Arun Shyamnath	RO, Agriculture Division, Kerala State
	the second s	Planning Board
18	Shri V Saji	RO, Social Services Division
19	Shri Sudesh T P	RO, Social Services Division
20	Smt Anila T	RO, Decentralised Planning Division
21	Shri Saneesh	RO, Evaluation Division
22	Smt Salini S	RO, Industry and Infrastructure Division
23	Smt Roopa RV	RA, Industry and Infrastructure Division
24	Smt Dhanya Chandrasekhar	RA, Industry and Infrastructure Division
25	Shri Praveen VP	LD Typist, Industry & Infrastructure
		Division
26	Shri Reghunathan M	Additional Private Secretary to VC
27	Shri Akhil Bharathan	PA to VC
28	Shri Vijayasuryan C K	Technical Assistant, Kerala State Planning
		Board
29	Smt Susmita Vinod	Technical Assistant, Kerala State Planning
		Board
30	Shri Bipin Chandran	Technical Assistant, Kerala State Planning
		Board
31	Shri Ibrahim Siddique	State Planning Board
32	Shri Ajeesh	State Planning Board
33	Shri Deepak Johnson	Ph D Scholar, Indian Statistical Institute
		8th Mile, Mysore Road, RVCE Post



PROCEEDINGS OF THE MEMBER SECRETARY, STATE PLANNING BOARD (Present: Dr A Jayathilak IAS)

Sub:-International Conference & Expo on Coconut Development- Reconstitution of Internal Committees- Modified orders issued- reg.

- Ref: 1. G.O (Rt.) No.252/2018/ID, dated Thiruvananthapuram, 12.3.2018.
 - Order No. KSIDC/MDO/2019/582 dated 19.6.19 of the Managing Director, KSIDC.
 - 3. Note No. SPB/92/2019-VC dated 14.8.2019 of the SPS to Vice chairperson.
 - Lr No. J3/10/2018-IND dated 3.9.2019 of the Principal Secretary, Industries (J) Dept.
 - 5. This office Order of even No. dated 30.9.2019
 - Submission dated 24.10.2019 of Shri Anil Kumar BM, Assistant Director, Plan Co-ordination Division
 - Submission dated 24.10.2019 of Shri Rabeesh RR, Research Assistant, Decentralized Planning Division.
 - Submission dated 25.10.2019 of Dr Manjusha P, Research Assistant, Decentralized Planning Division.

Order No: SPB/54/2017-I&I dated: 29.10.2019

Administrative sanction accorded for conducting International Conference and Exhibition/Exposition on Coconut and Rubber sectors at Kozhikode & Ernakulam vide Govt. order read above. The Exhibition/Exposition on Coconut planned on September 6 and 7, 2018 at The Raviz Kadav, Kozhikode was postponed to August 17-18, 2019 at the Taj Gateway, Kozhikode due to unprecedented level of monsoon rainfall in August 2018.

Vide reference 3rd & 4th cited, the meeting was rescheduled to November 2-3, 2019, in the light of the extreme heavy rainfall events and subsequent floods in August 2019.

In view of the rescheduled dates (November $2^{nd} \& 3^{rd}$, 2019) of the Conference and the submissions cited 6^{th} , $7^{th} \& 8^{th}$, it was decided to modify the order cited 5^{th} with with following changes:

- Shri Anilkumar B M & Shri Rabeesh RR, Members, Venue arrangement and Infrastructure Committee is replaced by Shri M P Madhusoodhanan Nair, Assistant Director & Shri Praveen V P, LD Typist, Industry & Infrastructure Division.
- Ms Roshni G C, Member, Speaker Selection and Invite Committee is transferred to Documentation Committee viz. Dr Manjusha P, Research Assistant, Decentralized Planning Division relieved.
- 3. Ms Salini S, Research Officer, Industry & Infrastructure Division is posted as Member, Speaker Selection and Invite Committee viz Ms Roshni G C transferred.

The final list of Committees and responsible officers are given below:

Sl. No.	Name of the Committee	Officers from State Planning Board
1	Venue arrangement and Infrastructure	 Shri M P Madhusoodhanan Nair, Assistant Director Shri Praveen VP, LD Typist, Industry & Infrastructure Division
2	Registration	 Ms Dhanya S Nair, Assistant Director, Agriculture Division Ms Roshni Padmanabhan, Research Officer, Agriculture Division
3	Finance and Accounts	 Shri Pradeep Kumar P, Joint Director, Perspective Planning Division Shri V Saji, Research Officer, Social Service Division
4	Exhibition	 Shri Vincent Sebastian, Assistant Director, Plan Co-Ordination division Shri Sudesh TP, Research Officer, Social Service Division
5	Accommodation, Travel and transportation	 Shri. G.T Shibu, Assistant Director, Industry and Infrastructure Division Shri Kalamudheen, Assistant Director, Industry and Infrastructure Division
6	Food and Catering	 Shri NK Rajendran Joint Director, Agriculture Division Ms Anila T, Research Officer, Decentralised Planning Division
7	Reception, Publicity and Promotion	 Ms Deepa Chandran, Assistant Director, Industry and Infrastructure Division Ms Dhanya Chandrasekhar, Research Assistant, Industry and Infrastructure Division
8	Speaker Selection and Invite	 Ms Roopa RV, Research Assistant, Industry and Infrastructure Division Ms Salini S, Research Officer, Industry & Infrastructure Division
9	Documentation Committee	 Ms Roshni GC, Agronomist, Agriculture Division Shri Saneesh, Research Officer, Evaluation Division

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The Committee members are requested to participate in the meetings of the committees and advised to ensure that, the work allocated to them is carried out smoothly and efficiently for the successful conduct of the International Conference & Exposition.

Sd/-

Dr A Jayathilak IAS Member Secretary

То

1. Persons concerned

2. Shri Sanjay Kaul IAS, Secretary, Port (Managing Director, KSIDC)

Copy to:-

- 1. All Members, SPB
- 2. PS to VC // SA
- 3. PA to MS
- 4. EA to VC

- Chief of all Divisions \$50 3010
 Sr. A.O
- 6. Sr. A.O
- 7. Finance Officer
- 8. CA to Chief, I&I Division
- 9. Stock file/ Office Copy

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Industry & Infrastructure Division

Sr. An. Ine 30.10-19

National Coconut Challenge 2019

Kerala State Industries Development Corporation, Kerala Statup Mission, and Kerala State Flanning Board are jointly organising a National Coconut Challenge as part of the International Exposition and Conference on Coconut scheduled on November 2 and 3, 2019.

The Challenge seeks to locker ideas and innovations in the coconut sector (including coconut familing, marketing, and process improvement). The Ohallenge will be a unique opportunity for startups, innovators, individuals, and students to showcase their idea or prototype in the Conference. It will also enable them to get mentoring and funding support from various Government agencies to carry their ideas forward.

> To know more, log on to www.coconutconfexkerala.org



A coconut palm is a multiple giver. From the coconut to the husk, bark, leaves and timber, it offers Innumerable opportunities. It is our priority to preserve it, promote its productivity, and encourage value addition to enhance its contribution to economic growth.



ContactUs

FOR EXPOSITION	FOR CONFERENCE
Mr Rajesh Jacob	Er Joy N R
Assistant General Manager, KSIDC	Chief, Industry & Infrastructure Division
2nd Floor, Choice Towers, Manorama Junction,	Korala Stato Planning Board
Kochi- Kerala, India - 682 016	Pattom, Thiruvananthapuram, Kerala, India

Tel: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE AND Email rajes deside EXPOSITION ON COCONUT DEVELOPMENT

> NOVEMBER 2 AND 3, 2019 WWW.COCONUCONTEXKETALA.OFG KERALA STATE PLANNING BOARD THIRUVANANTHAPURAM