

PROJECTS FUNDED UNDER TECHNOLOGY MISSION ON COCONUT

B. ONGOING PROJECTS

No	Name of the Project	Institutions	Year of sanction	Cost of the Project	Amount sanctioned by PAC	Amount released	Objective	Status
1 RESEARCH PROJECTS UNDER TMOG								
1	Impact of Coconut Oil as a cooking medium on cardiovascular risk factors and clinical outcomes in patients with coronary artery disease receiving standard medical care; A randomized case controlled study with polyunsaturated sunflower oil"	Dr. K. K. Haridas - Department of Cardiology, Amrita Institute of Medical Sciences and Research Centre, Kochi	2007-08	79.57	41.46	33.62	To compare the effects of coconut oil as dietary cooking medium on serum lipids, glycemic indices, antioxidant defense status and vascular endothelial function in patients with established coronary artery disease undergoing standard medical therapy and compare this with patients consuming sunflower oil based dietary regimen.	The study is being conducted in patients with established coronary artery disease receiving standard medical treatment and who meets the inclusion criteria are enrolled in the study. The study design is randomized, single blind, case controlled pilot study. Cardiac evaluation is done with ECG, Echo cardiogram with tissue Doppler tread mill test and study specific follow ups are scheduled on 3,6,12,18 & 24 months. The collected data is being analyzed using SPSS statistical software.
2	Scaling up the production of planting material from coconut root (wilt) disease resistant palms through plumule culture.	Dr.Anitha Karun, Principal Scientist (Horticulture Biotechnology)	2009-10	68.95	43.17	27.55	To refine the coconut plumule culture protocol for achieving higher multiplication rate, to study the seasonal variation for plantlet recovery and ex vitro establishment, enhancing production of coconut plantlets from released varieties viz. Chowghat Orange Dwarf (COD), Kerachandra (PHOT), West Coast Tall (WCT) and Chandra Sankara (COD X WCT) Kalpa Raksha (MGD) through plumule induction (1 year data), Protocol culture and to study the genetic uniformity among the plumule dwarf varieties is in progress. On an average 12-18 somatic embryos were obtained from one plumule. Experiments are also in progress for conversion of abnormal structures into normal plantlets.	Various combinations of media were tried and the protocol was refined to get 3-4 healthy plantlets from single explant. Effects of Thidiazuron and polyamines on high frequency callus induction and somatic embryogenesis from coconut plumule explants have been studied. On an average of 12-18 somatic embryos were obtained from plumule explants, the inter se work was repeated in 18 MGD palms at CDB farm, Neriamangalam from January 2011 to May 2011. April was found to be the best month to get maximum embryo germination percentage and callus induction (1 year data), Protocol refinements for somatic embryogenesis in dwarf varieties is in progress. On an average 12-18 somatic embryos were obtained from one plumule. Experiments are also in progress for conversion of abnormal structures into normal plantlets.

3	Production of Disease free Elite planting material for improving the productivity of coconut in Bay Islands	Central Agricultural Research Institute (ICAR), Port Blair, A&N Islands	2009-10	18.29	18.29	6.57	Survey and identification of high yielding disease resistant/free elite coconut genotypes from palm growing areas and from World coconut Germplasm centre and multiplication and distribution of elite genotypes for distribution to the farmers.	Extensive survey carried out for selection of diseased free and high yielding palms from various parts of South Andaman. A total number of 5000 nuts comprising 18 different varieties were collected from World coconut germplasm and sown at Garacharma and Sippighat Farm. All seedlings were sown successfully and 3000 seedlings were available at Sippighat Farm and 2000 seedlings at Garacharma. A total of 20,744 mother palms were surveyed from different parts of South Andaman, out of which 5000 nuts were selected based on their phenotypic observation. Among these nuts ,3297 nuts were Andaman ordinary Tall variety collected from WCGC, Sippighat and Kurmadera. Seedlings of 18 varieties were raised.
4	A study on the quality of coconut in Andhra Pradesh in terms of output of copra, oil, coconut water, shell and husk	Andhra Pradesh Horticultural University Tadepalligudem, West Godavari District, Andhra Pradesh	2009-10	2.50	2.50	1.13	To study the quantitative and qualitative parameters of coconut in major coconut growing districts (East Godavari, West Godavari and Srikakulam) of Andhra Pradesh	Survey was conducted in three major coconut growing districts (East Godavari, West Godavari and Srikakulam) of Andhra Pradesh . nuts from Ayinavelli mandal of East Godavari district showed the highest whole nut weight and husk weight of 1307.50g/nut and 850.50g/nut husk weight whereas dehusked nut weight (504.50g/nut) was observed in nuts collected from Rajahmundry mandal The analysis of samples for oil characters ,survey and collection of nuts for remaining two seasons is in progress.

2 PROJECTS FOR DEVELOPMENT OF TECHNOLOGIES UNDER TMOC								
a. Pest & Disease Management								
1	Establishment of Biological Control Laboratory at Regional Office, CDB, Bangalore for the Biological Suppression of Coconut Leaf Eating Caterpillar in Karnataka	CDB, R.O, Bangalore	2003-04	42.00	42.00	37.81	To mass produce quality biological control agents- Goniouzus nephantidis and Cardiasethus exiguuous. Laying out of large scale demonstration plots in hot- spot areas. To demonstrate the effectiveness of biological control methods of pest management and integrating it with nutrition and water management. To impart training to farmers on integrated pest and disease management of coconut giving more emphasis on the adoption of biological control measures. To mass- produce other bio-control agents after mid term appraisal by utilizing the facilities created.	The parasite breeding lab attached to ROB is well established with all necessary infrastructure facilities and equipments for mass production of eggs, larvae and multiplication of parasites (Goniouzus nephantidis). The project has been extended upto March 2013.
2	Quick detection of root wilt diseases of coconut using molecular kit	CPCRI, Kasaragod	2009-10	57.51	50.00	37.21	Development and application of molecular based detection kit for root wilt disease in coconut	The characterization of Phytoplasma associated with Root wilt disease has been completed 2. Phytoplasma DNA extraction from disease affected palms has been standardized to a much easier way and the PCR protocol has been modified. 3. Molecular detection of Phytoplasma from embryos has been done in symptomatic and non symptomatic palms. 4. Evaluation of seasonal variation of phytoplasma was also done through PCR and is found that amplification efficiency is higher in December

3	Development of nutrient management strategy for improving the health of the palm to build resistance to pests	Orissa University of Agriculture and Technology, Bhubaneshwar, Orissa	2009-10	5.98	5.98	4.49	To study the efficacy of coir pith based vermi-compost enriched with bio-agents / biofertilizers, on incidence of insect pests & diseases, to study the nutrient status in the enriched coir pith based vermicompost and to manifest its effect on the plant through the analysis of nutrient profile in leaves and nuts of coconut plant and also through assessment of copra oil content and to evolve a cost-effective nutrient management strategy for adoption in the IPM of major pests of coconut and for enhancing the production of healthy coconuts.	Selection of palms & lay out of the experiment at OUAT Coconut Farm, Isaneswar, Konark FSK unit of Central Farm, OUA J , Bhubaneswar. First round of application of VC made at Bhubaneswar and konark has been made as per treatments; Second round of application of VC made at Konark as per treatments. Samples of vermicompost collected for nutrient analysis; Vermicompost collected and stored treatment wise.
4	Monitoring and surveillance of infestation of pest and disease of coconut in Andaman Nicobar Islands	Central Agricultural Research Institute (ICAR), Port Blair, A & N Islands	2009-10	7.01	7.01	6.03	Monitoring and surveillance of insect-pest and disease situation of coconut to assess the intensity of infestation in South, Middle and North Andaman and Nicobar Islands.	Multi stage random sampling has been conducted in South Andaman and it is found that almost all villages have high infestations of Rhinoceros beetle, Tirur have very high infestation of Rhinoceros Beetle and has no incidence of scale insect, Bud rot and stem bleeding. Pheromone traps were also installed in 11 locations of South Andaman and the average number of beetles trapped range from 3.5-11. It is found that comparatively, insect pest infestation is more compared to disease incidence in Andamans and the project is ongoing.
5	Studies on light traps for mass trapping and destruction of coconut slug caterpillar moths as an ecofriendly component of IPM	Andhra Pradesh Horticultural University, Tadepalli Gudem	2009-10	7.52	7.52	5.64	To standardize the best and easy method for trapping of slug caterpillar moths, to find out the optimum height of placement of light traps, to work out number of light traps required per unit area of infested garden, to find out peak emergence time of moths and effective trapping time and to standardize easy, economical and effective attraction and trapping method of light source.	The optimum height of placement for light traps is being assessed.

6	Mass multiplication of Parasitoids, Predators, Bio-Agents and large scale demonstration of Biological control of major insect pest and diseases of Coconut in Andhra Pradesh	Horticultural Research Station, Ambajipeta, Andhra Pradesh Horticultural University	2010-11	14.44	14.44	3.80	Mass production of parasitoids ie. Bracon hebetor, Goniozus nephantidis, Brachymeria nosatoi, Predator Cardiaethus exiguus and Bio-agents viz. Metarhizium, T.viride, T.harzianum, T.hamatum (fungal bio-agents), Pseudomonas fluorescens (Bacterial bio-agents) and baculovirus (viral bio-agent) and large scale demonstration of biological control of insect pests and diseases of coconut in farmer's gardens.	Project initiated in March 2011.
7	Evaluation of Mass Trapping Technology for coconut black headed caterpillar (Opisina arenosella) by using indigenously developed Sex Pheromone Lures and Traps.	Bio-control Research Laboratories, Division of Pest Control (India) Pvt. Ltd., Arakere, Bangalore	2010-11	15.85	7.93	1.98	To standardize the height of the trap and trap density for maximizing capture of male Opisina arenosella adults, under field conditions, Evaluation of the potential of pheromone based mass trapping as a stand alone tool for management of coconut black headed caterpillar under farmers' field conditions and Demonstration of the utility of pheromone trap as a surveillance and monitoring tool in IPM of Opisina arenosella, in combination with release of larval parasitoids.	Trap density at 20 and 40 traps per ha. is being analysed. Testing the attraction of Opisina females to synthetic pheromone in the lab is in progress.
8	Project for 'Identifying the pheromone synergists of coconut red palm weevil Rhyncophorus ferrugineus'	CPCRI, Kasargod	2010-11	17.33	17.33	8.36	To identify the components present in head space volatiles from coconut palm that stimulates the olfactory receptors in R. ferrugineus antennae, to characterize the behaviour of R. ferrugineus adults to pheromone synergists, to assess the performance of the developed multicomponent blend in release devices at field level.	Project initiated in April 2011.

9	Large scale procurement of seed nuts from superior dwarf by screening and identification In Southern Zone of Kerala	Kerala Agricultural University, Onattukara Regional Agricultural Research Station, Kayamkulam	2011-12	13.43	13.43	2.36	Large scale procurement of seed nuts for the production of seedlings (30000 dwarf nuts) with comparative tolerance stress conditions.	Project initiated in June 2011.
10	Development of effective and safe chemical module against post harvest diseases of coconut and demonstration of developed module in farmer's conditions.	Horticultural Research Station, Andhra Pradesh Horticultural University, Venkatramannagudem, West Godavari, AP	2011-12	20.68	20.68	9.60	To identify effective chemicals against post harvest diseases under varied storage structures, to develop cost effective module to manage post harvest diseases in coconut, to study the bio safety measures by using mammals (Rabbits / Rats), to calculate cost benefit ratio and economic analysis and to demonstrate the developed chemical management package against post harvest disease in farmers gardens.	Project initiated in November 2011.
b. Product Development								
1	Development of Processes and Herbal formulations based on Virgin Coconut Oil	AVT Institute for Advanced Research (AVTAR), Coimbatore	2008-09	20.36	10.36	8.29	To evaluate VCO obtained through different processes and as per APCC standards and selection of a suitable VCO, optimizing methodology to blend VCO with poly herbal extracts (Vyoshadi yogam), Phytochemical studies to standardize the blended VCO and physiological & pathological studies of the formulation on animals for hyper lipidemia.	The data from limited samples of Commercial Virgin Coconut Oil, Traditional Coconut Oil, Kitchen Virgin Coconut Oil, Commercial Coconut Oil, and a blend of Traditional Coconut Oil with coconut milk, physiochemical properties of all these forms were comparable except for polenske value and unsaponifiable matter with reference to APCC and CDB standards. All oils exhibited significant anti oxidant activity after blending with herbs. Commercial Virgin Coconut Oil appear to have exhibited marginally better and stable antioxidant activity after blending with herbs. The results of animal study is awaited.

2	Project proposal for Diversified uses of Diseased Coconut Wood	Central Coir Research Institute (CCRI), Kalavoor, Alleppy	2008-09	21.39	21.39	17.11	To isolate cellulose and hydrolyze it for producing bio-fuel, to extract valuable chemicals like bio-oils from it, to use it as a raw material for particle boards without any resin, to convert it into pulp for making hand made paper and to set up a pilot plant for demonstration of technologies.	The study reveals that the diseased soft wood portion can be utilized for pulp production. An environmental friendly organosolv process has been developed. Further, the liquor produced as a result of the pulping process can be reused for further pulping thereby indicating that the process is economical and eco-friendly.
3	Project for development of existing coconut fibre peeling (De-husking) machine	Process Ekupment Engineers, Process Nagar, Coimbatore	2008-09	5.66	5.66	2.54	To refine the present Dehusking Machine through reduction of noise and standardization of springs to suit any kind of coconut for de-husking. To make it a standardized product with easy available spares and by integrating the roller and feeder assembly into a cast iron assembly reducing some number of bolts and nuts used. To increase the life of the machine by replacing MS Parts of machine with cast iron parts wherever possible. To increase the dehusking efficiency and dehusk at least 10 numbers of coconuts per minute irrespective of size.	The project has been completed and the existing fibre peeling (Dehusking) machine has been modernized. Patenting awaited.
4	Synthesis and characterization of value added products from coconut oil	Indian Institute of Science, Bangalore	2009-10	65.74	65.74	59.17	To develop and deliver marketable, completely biodegradable coconut oil based value added industrial lubricants like Grease and Metal cutting fluids. In addition to the proposed work, 2-stroke and 4-Stroke lubricants work would be explored further for local markets.	The synthesis of Ca, Na, Li soaps for grease and optimization of emulsifiers for metal cutting operations have been completed. However performance evaluations, field test and setting up of pilot plants for demonstration of technology have to be initiated.

5	Development of technology for preparation of particle boards & diversified products from tender coconut waste	Central Coir Research Institute (CCRI), Kalavoor	2009-10	12.08	12.08	9.66	Develop a technology for production of particle boards from tender coconut fiber. Develop and standardize a process for pulping of tender coconut fiber for production of diversified products. Explore the possibility of utilization of tender coconut husk in bio-fuel production.	Different types of moulds were fabricated one with 300 diameter size, having 150 mm stoke length and 12mm thickness was experimented to produce boards using tender husk. Organosolv pulp bleached with hydrogen peroxide used in production of writing paper due to good paper formation and surface smoothness. The pulp moulded into articles such as egg baskets, paper plates, cups, glass covers, paper pots etc. for seedling and packaging purposes. Lignin recovery was done after organosolv pulping by precipitation. Bench scale pyrolysis unit constructed of heat resistant borosilicate for extraction of pyrolysed oils. The conditions for pyrolysis have to be optimized so that yield of oil can be maximized. The bio char(charcoal) is found to be a valuable co product of bio oil production.
6	Development of tractor mounted and self propelled coconut climber for coconut harvesting	B.S. Konkan Krishi Vidyapeeth, Dapoli	2009-10	17.24	17.24	15.51	To develop and modify tractor mounted hydraulic elevator (TMHE), to conduct the component testing of TMHE, to conduct the field demonstration and testing of TMHE on university farm and farmers field, to demonstrate the use of TMHE to coconuts growers and to link the TMHE with machinery / equipment manufacturers for commercialization.	The project completed and tractor mounted self propelled coconut climber developed. Demonstration of the developed machinery also completed.
7	A pilot study on Development of a nutraceutical preparation using nut water	Amrita school of Pharmacy, AIMS, Ponekkara	2010-11	13.50	13.50	7.28	To conduct a pilot study at the Amrita School of pharmacy laboratories for formulating a nutraceutical preparation using coconut water, to study the stability issues related to preservation of coconut water and tender coconut water covering the natural sources and commercial products available in the local market, to study the problems associated with the fortification of coconut water with nutraceuticals including antioxidants.	Progress report awaited.

8	Pilot trial on large-scale vermicomposting of tender coconut waste	Horticultural Research Station, Andhra Pradesh Horticultural University, West Godavari Dt, AP	2010-11	3.29	3.29	1.65	To standardize the large scale vermicomposting of tender coconut waste.	Progress report awaited.
9	Generation of xylooligosaccharides from green coconut husk for augmenting gut health and function	National Institute of Animal Nutrition, Bangalore	2011-12	40.06	40.06	11.44	To generate xylooligosaccharides from green coconut husks, to purify and characterize the xylooligosaccharides and to elucidate the prebiotic potentiality / therapeutic value of xylooligosaccharides.	Project initiated in October 2011.
10	Development of Technology for Production of Health Foods from Tender & Mature Coconut	Department of Lipid Science & Traditional Foods, CFTRI, Mysore	2011-12	20.90	20.90	14.30	To provide a ready to reconstitute Nutraceutical retained dehydrated product from tender and mature coconut water, to provide a ready to use Nutraceutical retained food supplement (instant powder) from tender and mature coconut meat and to utilize above products in preparation of two ready to eat/drink health foods.	Project initiated in October 2011.
11	Investigations and development of technology for desiccated coconut industry effluent water treatment	Dept. of Chemical Engineering, IISc, Bangalore	2011-12	12.62	12.62	8.21	To develop reliable treatment and monitoring methods for coconut processing industry effluent water, to characterize the effluent water of the desiccated coconut industry, to develop an environment friendly effluent treatment process for desiccated coconut industry, to explore alternate byproducts from coconut water and to evolve good sanitary practices for the industry.	Project initiated in October 2011.
3	PROJECTS FOR DEMONSTRATION OF TECHNOLOGIES UNDER TMOC							
a.	<i>Pest & Disease Management</i>							

1	Demonstration of technologies for management of Red Palm Weevil of Coconut by sanitation & pheromone based mass trapping in Alappuzha District, Kerala on a pulse polio immunization mode with the participation of Farmers/ Panchayat	Bio-Control Research Laboratories, Division of Pest Control (India) Pvt. Ltd., Bangalore	2007-08	2.97	2.97	0.72	To demonstrate technologies for management of Red Palm Weevil of Coconut by sanitation & pheromone based mass trapping in Alappuzha District, Kerala in a campaign mode with the participation of Farmers / Panchayath.	In order to ensure participation of farmers in the programme, the 25th PAC approved only the 1st phase of programme for conducting awareness programme. After assessing the impact of the awareness seminars, the possibility of implementing the large scale setting up of trap in the endemic areas of the district would be considered. Pest Control (India) Pvt. Ltd has already conducted 6 Taluk level seminars and a District level seminar. Comments on the technical programme of the project from CPCRI and report on the impact of awareness seminars from PCI are awaited for considering the 2nd phase of the project.
2	Survey for the occurrence and severity of root (wilt) disease of coconut in Dakshina Kannada District of Karnataka".	University of Agricultural Sciences, GKVK, Bangalore	2009-10	2.47	2.47	2.22	i) survey on the incidence and intensity of root (wilt) disease of coconut in Dhakshina Kannada District of Karnataka (UAS), ii) to prepare disease hot spot area maps for systematic rouging of diseased palms to prevent further spread of the disease (UAS) and iii) simultaneous cutting & removal of disease affected palms by the Dept. of Horticulture, Govt. of Karnataka.	Study has identified the root wilt affected/ suspected palms in 5 taluks of South Canara District and disease area maps have also been prepared. Director of Horticulture, Karnataka has been requested to submit a separate proposal to the Board for taking up the cutting and removal of the root wilt affected palms identified in the study so as to prevent further spread of the disease.
3	Survey on incidence and severity of Ganoderma wilt of coconut with respect to agronomic practices in dry tracts of southern Karnataka	UAS, GKVK, Bangalore	2009-10	2.76	2.76	2.07	Survey on the incidence and intensity of Basal stem rot (Ganoderma wilt) disease of coconut in dry tracts of southern Karnataka and to assess influence of different agronomic practices followed by farmers on incidence and severity of fatal disease (Ganoderma wilt) of coconut.	Study completed. Final report awaited
4	Network Project for Establishment of Nucleus Seed Gardens for Production of Quality Planting Materials of Recently Released Coconut Cultivars	CPCRI, Kasaragod	2009-10	44.01	44.01	15.73	To establish Nucleus Seed Gardens for promising / released and dwarf coconut varieties in different agro-climatic regions and documentation of elite palms in coconut.	Selection of mother palms, Inter-crossing programme ,Documentation of elite palms being carried out.

5	Improving productivity and income from Coconut through recommended technologies and diversified products in the disease affected area of W.B. – A farmer participatory demonstration and training programme	Bidhan Chandra Krishi Viswa Vidyalaya, WB	2004-05	12.23	12.23	6.52	To demonstrate the efficacy and feasibility of recommended farming technologies in coconut on a group action basis in disease-affected area, to involve all stake holders like extension officials, farmer leaders, NGOs, rural youth, farm/SHG women, etc. for an integrated transfer of technologies to be demonstrated, to design and impart need based trainings to different client groups on product diversification and cropping system with relevant literature support and to study the perception of the participating farmers in terms of attributes of technologies which are being recommended.	Project period was over by 6th October 2008 and final report is awaited from BCKV.
6	Demonstration and adoption of technologies under Technology Mission on Coconut	Department of Horticulture, ORISSA	2006-07	25.00	25.00	22.17	For demonstration of the effectiveness of IPM and INM technology in the Maheswari Coconut Farm and Kerandia Coconut Farm covering 3150 palms	6,25,000 palms were treated with the pestside (azadirachtin) through root feeding covering 41900 beneficiaries. A committee constituted by the Chairman, CDB with representatives of O.U.A.T., Dept. of Horticulture and C.D.B. made an independent field level assessment and submitted a comprehensive report. The damage score on one to five scales was in the range of 3 to 4 i.e. about moderate intensity (26-50%) which was comparatively less than the untreated palms where 100% infestation was noticed with the intensity of moderate to high. This indicates that implementation of the project has its impact in bringing down the mite infestation.

7	Integrated Coconut Development Scheme	District Panchayat, Kozhikode	2006-07	324.88	10.60	8.05	To increase the productivity and income from unit holdings by promoting the adoption of management practices like INM, IPM including inter cropping and mixed farming in an area of 575 ha, covering 23 Grama Panchayaths of 11 Block Panchayaths and to promote production, processing, storage and marketing of the agricultural produce produced by the self-help group directly to the consumers by which the intermediaries can be wiped off from the marketing channel.	Adopted IPM and INM practices in selected area.
8	Demonstration of recommended IPM/INM technologies for the management of Eriophyid mite in the affected areas of Gujarat	Director of Research, Junagadh Agricultural University, Junagadh, Gujarat	2007-08	29.46	19.38	13.48	To demonstrate the efficacy and feasibility of recommended IPM/INM technologies for the management of Eriophyid mite in the farmer's field in a compact area, to impart need based training to the farmers and to workout the cost benefit ratio of the feasible package and to evaluate the package.	Pretreatment observations on mite population and nut damage, Procurement and distribution of green manure seeds, Demonstration of plant protection treatment/ Farmers training programme, Adoption of phyto-sanitary measures as management of Eriophyid mite, Cleaning orchard, Collection of infested nuts and burning, Crown cleaning in the selected area, Application of Neem cake, farm yard manure and recommended dose of inorganic fertilizers, Root feeding with 5% Azadirachtin . It has been reported that there has been considerable improvement in the nut quality after adoption of recommended practices for mite control.
9	Bio- hedging village programme	Mararikulam North Grama Panchayath, Alappuzha	2007-08	27.57	9.82	7.52	To rejuvenate and develop a 25 Ha compact block of existing coconut palms as a model in the coastal belt, to demonstrate how productivity and returns could be improved with the adoption of a judicious management system in the coastal homesteads and to promote organic farming, bio-hedging and to generate gainful employment to the farm family labour.	Project has been completed and detailed final report awaited.

10	Control of Black Headed Caterpillar outbreak in Erode district of Tamil Nadu	Department of Agriculture, Tamil Nadu	2007-08	40.42	11.49	10.35	To control heavy infestation of Black Headed caterpillar in the endemic area of Erode district.	The project period has been completed by March 2011 and detailed final report awaited.
11	Soil and plant health management through organic recycling in coconut based production system	Central Plantation Crops Research Institute (CPCRI), Indian Council of Agricultural Research (ICAR), Kasaragod	2008-09	62.63	25.00	16.883	To demonstrate location specific technologies for organic recycling aiming at developing sustainable organic production system in coconut growing areas including root wilt disease affected tracts, to develop low cost crop residue recycling systems to produce high quality vermi-compost and vermi-wash for soil health management in coconut based organic production system, to assess the efficacy of vermi-wash as bio pest repellent and prophylactic agent for disease and soil health stimulant.	All farmers have started producing compost and vermiwash using biomass available in their farm, Analysis of vermicompost and vermiwash, Coconut leaf analysis and soil analysis going on.
12	Control of Leaf blight disease incidence of coconut in Anamalai block of Coimbatore district	Dept. of Agriculture, Govt. of Tamilnadu	2008-09	40.01	4.71	2.35	Controlling severe incidence of the Leaf blight disease incidence in Aanamalai block of Coimbatore district.	Physical progress against milestones fixed and expenditure details awaited.

13	Mass multiplication and Demonstration of Bio-control based integrated disease management package against basal stem rot (Ganoderma wilt) disease in coconut	Andhra Pradesh Horticultural University, Tadepalli Gudem	2009-10	15.70	15.70	10.97	To develop curative management package against basal stem rot disease in coconut, validation of developed curative management package and large scale demonstration of developed prophylactic and curative packages against basal stem rot disease in coconut in farmer's gardens.	Intensive surveys conducted in four districts of A P. Max % of disease incidence is noted in Eastt godavari (35%), 20% in Srikakulam stages of disease development has been studied and detailed in the report. Within Trichoderma sps. 18 geographically located isolates were collected and found to be effective against Ganoderma in dual culture plate assays. Red gram and Bengal gram were screened in indicator plant assays. Entire symptoms were visible within a month under artificial inoculation studies when compared to Red gram. Further studies are ongoing for confirmation demonstration of prophylactic measures such as isolation of diseased trees by isolation trenches, raising of green manure crops, basin method of irrigation etc, is being demonstrated and studies are in progress.
14	Mixed cropping of Noni (Morinda citrifolia) in coconut gardens under coastal agro-ecosystems	Central Plantation Crops research institute (ICAR), Kasargod	2011-12	6.52	6.52	2.20	To study the performance of Noni (Morinda citrifolia), as mixed crop in single hedge systems under coconut garden and to study the impact of mixed cropping of Noni with coconut on the productivity of coconut palms and soil fertility status.	Project initiated in October 2011.
15	Performance evaluation of elite seedlings in farmer's fields of Alappuzha and Kollam Districts	ORARS, Kerala Agricultural University, Kayamkulam, Alappuzha	2011-12	12.10	12.10	6.95	To evaluate the performance of the mother palms selected during 2004-05 for the presence of root wilt disease by ELISA test, a comparative study of the mother palms of Kuttiyadi origin distributed by the Department of Agriculture in the region (6 PANCHAYATS), compare the morphological characters, incidence of pests and diseases in selected palms, conducting ELISA test in selected palms and identification of root (wilt) free palms.	Project initiated in November 2011.

b. Product diversification & value addition							
1	Setting up of pilot project for coconut wood utilization for joineries	Forest Industries (Travancore) Limited, Thaikkattukara, Aluva	2009-10	24.80	24.80	18.60	To setup a pilot project for the successful utilization of coconut wood for manufacture of joineries ie. window and door frames in addition to staircase fittings and ventilators. The project was completed successfully in 4 months i.e. by 8.6.2010 as per approved schedule and the final report had also been submitted in June 2010 (SI.No.14). Further, FIT has also initiated the project for setting up a commercial Unit for coconut wood furniture at Attingal .
2	Pilot project for establishment of demonstration cum training centre for coconut products	Dept. of Horticulture, Govt. of Karnataka	2002-03	150.00	135.00	100.47	Setting up of the pilot project is envisaged for the purpose of demonstration cum training for the farmers for imparting regular training in selected disciplines of coconut industry, to organize short term training courses on a regular basis in the preparation of foods and beverages from coconut meat, water and sap and also in the production of novelty handicrafts from shell to demonstrate the techno economic viability of the processing technologies imparted through training. The demonstration cum training center building was inaugurated during September 2010. Training programmes of coconut is being conducted regularly by the center at Mandya.
3	Setting up a quality Control Laboratory at Bangalore	Coconut Development Board.	2002-03	50.00	50.00	13.95	To carry out chemical and microbiological analysis of coconut based food products. Shifted to TDC, Vazhakulam

4	Establishing Quality Control Laboratory at Technology Development Centre, Vazhakulam, Aluva	Technology Development Centre, Coconut Development Board-Vazhakulam, Aluva	2004-05	195.86	195.86	189.16	<p>To carry out chemical and microbiological analysis of coconut based food products, to render technical support to organizations like B.I.S, AGMARK, E.I.A, APEDA and Ministry of Food Processing for drafting Quality Standards for newly developed coconut based food products, to act as certifying agency for the quality of coconut food products based on Quality Standards drafted, to act as a nodal agency for developing and standardizing packaging technologies for coconut based food products, to coordinate training programmes on various quality management practices like HACCP, food safety and hygiene, good manufacturing practices, etc. for manufacturers venturing into coconut based food industries and to offer consultancy for HACCP certification.</p>	<p>NABL accreditation for QTL, Vazhakulam has been obtained from National Accreditation Board for Testing AND Calibration Laboratories, New Delhi for chemical and biological testing facility . Chemical and microbiological analysis of coconut based food products is being carried out on a routine basis. Training programmes on coconut based foods are being undertaken.</p>
5	Setting up of a demonstration and training centre on the coconut processing in Konkan Region of Maharashtra	Konkan Krishi Vidyapeeth, Dapoli, Ratnagiri Dt., Maharashtra	2005-06	16.10	16.10	12.86	<p>Setting up a demonstration and training centre for coconut processing in Konkan Region of Maharashtra for developing rural entrepreneurship and transfer of technology for processing of coconuts by utilizing locally grown raw material and providing practical training and demonstration for the preparation of coconut chips, edible copra, coconut shell charcoal and coconut water based vinegar.</p>	

6	Establishment of training cum production centers for coconut clusters in Tamil Nadu	Farmers' Training Centers under the Director of Agriculture, Department of Agriculture, Chepauk, Chennai	2006-07	41.35	41.35	37.22	Establishment of training cum production center for coconut based value added products, training the clusters on need based / location specific coconut micro enterprise, guiding the clusters for establishing of micro enterprises and developing qualified master trainers for imparting the training.	Capacity building and infrastructure development of the existing FTC's is being under taken. Training of master trainers has been completed.
7	Project for Development of an Integrated Processing Complex for Manufacturing and Marketing of coconut based products at Kavaratti.	The Chairman , Village (Dweep) Panchayath, Office of the Village (Dweep) Panchayath U.T. of Lakshadweep Kavaratti	2006-07	40.00	30.00	29.00	Setting up an integrated coconut processing unit involved in development of several value added products from coconut at Kavaratti Island in Lakshadweep.	The integrated coconut processing unit for value added products has been established.
8	Training cum Demonstration Centre for post harvest processing of coconut	ANGRAU, Ambajipeta	2007-08	0.98	0.63	0.48	To provide training cum demonstration on post harvest processing of coconut to the coconut growers of Andhra Pradesh by establishing a Training-cum Demonstration Centre at Horticulture Research Station (AP) and for popularization of copra making methods and product diversification.	Established the training cum demonstration center at HRS for copra making methods and product diversification. Training is being undertaken in batches.
9	Setting up of Coconut Artistic Complex	Jupiter Enterprises, N.H.Junction, Vayalar, Pattanakkad.P.O., Cherthala, Alappuzha	2009-10	19.77	6.89	5.18	To set up a modern Coconut Workshop-cum-Training Centre, installing advanced machineries for carving and manufacture of utility items, furniture, interior decorative items, building materials etc. based on coconut wood and shell and to market the finished products so as to popularize the use of coconut wood and shell based items.	Training center established with all machineries. Two batches of training conducted for coconut wood and shell items.

10	Demonstration of Technology for processing and packaging Neera (Sweet Toddy) in Karnataka	The Secretary (Horticulture), Government of Karnataka, Bangalore	2010-11	77.35	15.00	7.50	To optimize the use of available natural resources, to educate the farmers there by improve the economic position of the farmers and to keep alive the tapping traditions of Dakshina Kannada and Demonstration is taken up in order to bring Neera Policy in Karnataka.	Action has been initiated by the State Govt. for establishment of demonstration center.
4 PROJECTS FOR ADOPTION OF TECHNOLOGIES UNDER TMOC								
a. Pest & Disease Management								
1	Project for control of Eriophyid Mite on coconut	The Department of Agriculture, Tamil Nadu	2007-08	2277.40	569.30	284.68	To control of Eriophyid Mite infestation on coconut in hot spot areas of 11 coconut growing districts of Tamil Nadu.	A final report on the physical progress indicating achievements made under different components of the programme or a revised schedule for completion of the programme is pending from the Dept. of Agriculture.
2	Integrated Coconut Development for Budrot affected area	Kasaragod District, Civil station, Kasaragod	2008-09	1846.37	335.75	332.31	The project envisages supporting the farmers of severely Bud rot affected areas of Kasaragod district by providing compensation for the removal of completely damaged Budrot affected palms and to contain the spread of the disease by adopting disease management practices as recommended by CPCRI.	Project has been completed and 66875 disease affected completely damaged palms have been removed. The quantity of innoculum was reduced due to the implementation of the project, but strict surveillance of the disease incidence in these panchayats and continuation of adoption of prophylactic measures during peak season favorable for multiplication of the fungus is necessary to prevent the spread of the disease in future.

3	Organic group farming project for coconut based farming system in Vechoor	Manarcadu Social Service Society, Manarcadu, Kottayam	2008-09	81.60	20.24	19.68	To enhance the production and productivity of coconut and intercrops like vegetables tuber crops and fruit crops in the project area for improving the standard of life of the people, to improve the soil fertility and soil health to ensure sustainable farming and production, to adopt prophylactic measures against pest and disease insurgence, to avoid hazardous agri chemicals with ultimate objectives of avoiding residues, resurgence and resistance in crop production system.	Soil testing, manuring, plant protection, development of intercrops and organic certification as envisaged in the project have been completed and implementation of the project is in progress.
4	Field demonstration of integrated disease management technology for management of leaf rot disease including bio agents	CPCRI, Kasaragod	2009-10	13.69	13.69	9.13	To assess and demonstrate latest technologies (involving chemical and bio-control agents in a comparative manner) on integrated management of coconut leaf rot disease with farmer participation and to document the impact of the technology demonstration on coconut palm and farmer profile.	Keerikadu (Evoor south) under Pathiyoor panchayat in Alapuzha district is selected as operational area. Local farmers were contacted involving state Dept and Pathiyoor coconut devpt. council. Preliminary meeting was conducted for selection of clusters of coconut holdings and stake holders for evolving baseline data and field activities.
5	Management of Black Headed Caterpillar (BHC) menace on Coconut in Karnataka	Director of Horticulture, Govt. of Karnataka, Bangalore	2009-10	83.50	83.50	75.14	The Management of Black Headed caterpillar (BHC) menace in coconut in Tumkur district of Karnataka covering an area of 5536 ha, (830400 palms) by adoption of IPM package recommended by UAS, Bangalore	Procurement of inputs such as neem cake and Azdirachtin is in progress.

b. Product diversification & value addition								
Sl. No.	Name of the Unit & Address	State	Year	Total Project Cost (Rs.)	Amount sanctioned (Rs.)	Amount released (Rs.)	Capacity (Nuts/day)	Products
1	M/s. Malabar Rubber and Agricultural Processing Co operative Society Ltd, Kannur	Kerala	2006-07	6500000	1140800	570400	27500	Packed, Branded Coconut Oil, edible copra & vinegar
2	The Kandallor Coconut Processing and Marketing Co-operative Society Ltd. Kayamkulam	Kerala	2006-07	1584000	396000	198000	5000	Coconut Oil
3	Ezupunna Panchayat SC/ST Co- operative Society, Allepy	Kerala	2006-07	446000	85000	42500	1000	Copra and Vinegar (80 L of vinegar/day)
4 to 9	VCO (RUBCO Technology -6 units)	Kerala	2006-07	12510000	3127500	1563625	12000	Virgin Coconut Oil (2000 nuts per day /unit)
10	St.Antonys Foods, Vaduthala -coconut chips unit	Kerala	2006-07	400000	76900	38400	200	Coconut chips
11	M/s Lala Industries Pvt. Ltd, Nedumbassery	Kerala	2006-07	2695000	653000	326900	200	200nuts per day(fresh frozen grated coconut) 40 lakh ice cream cup per year
12	The Urangattri Service Co-operative Bank, Malappuram	Kerala	2006-07	10000000	2092000	1046000	25000	(4 tones of copra per day),(500 Lts of coconut water per day, Bio gas (288 cubic meter per year at 80% capacity utilization
13	M/s. COPS, P.O., Palakkad Dist. promoted by Kanhirapuzha Grama Panchayath Farm Club, Irumbakachola P.O., Kanhirapuzha, Palakkad Dt	Kerala	2007-08	1146325	225081	112540	500	21,500 Kg coconut chips in a year
14	Palakkad Dt. Agrl. Produces Processing and Marktg. Industrial Co-op. Society, Vandithavalam, Palakkad District.	Kerala	2007-08	12386000	1675000	837500	40000	Agmark std.coconut oil
15	Shri. Siddheswara Coconut Industries, Siddhapura, Konchully P.O, Tiptur, Tumkur, Karnataka	Karnataka	2007-08	6378000	1099500	938500	16000	Dessicated Coconut
16	M/s. Bharathi Coconut Products, No.K-76, Hootagalli Industrial Area of KAIDB, DIC Layout, Mysore	Karnataka	2007-08	1600000	225500	112750	7000	Dessicated Coconut
17	M/s. Sree Agro Products Pvt. Ltd., W.G.Dist, AP	Andhra Pradesh	2007-08	32893000	1091000	978500	40000	Dessicated Coconut
18	The Badagara Taluk Primary Co-operative Marketing Society Ltd Kakkattil.P.O., Kozhikode	Kerala	2007-08	1625000	187379	174000	25000	Coconut Oil

19	M/s. Kairaly Coconut Products, Anandapuram Thrissur	Kerala	2007-08	3541000	673000	639600	5000	Coconut Oil
20	M/s.Sri Jayalakshmi, W.Godavari	Andhra Pradesh	2007-08	11500000	2600000	2340000	10000	Tender Coconut water
21	M/s.Anu Coco Food Products Pvt.Ltd,Hyderabad	Andhra Pradesh	2007-08	38568000	4362500	3986500	25000	Tender Coconut water
22	Thirumeni Agrl. Marketing Society, Kannur	Kerala	2007-08	2850000	584200	284600	10000	2 tones of copra per day 100 litres of coconut water per day to vinegar.
23	Tellichery Cooperative Marketing and Processing Society, Mattanoor, Kannur	Kerala	2007-08	5200000	1081000	650000	5000	Coconut Oil
24	M/s. Sevashram, Mangattukara, Puliyanam.P.O., Angamaly	Kerala	2008-09	20300000	4027750	1815125	46000	Copra, Coconut Oil, Chips and Vinegar
25	M/s. Swamy Oil and Packaging Industries, Pullikada, Kollam	Kerala	2008-09	9586000	1465500	1318950	70000	Coconut Oil
26	M/s. Manayampilly Flour and Oil Mills, Nedumbassery, Kaprassery.P.O.,Ernakulam	Kerala	2008-09	2000000	436800	391770	8000	Coconut Oil
27	M/s. Belmont Carbon and Adsorbents Pvt. Ltd., Belmont Plaza, Banerji Road, Kochi-18	Kerala	2008-09	43267000	5000000	2500000		Activated carbon (5 MT per day)
28	Shri A.Saravanan, MAP Carbochems, 9/250, Nanmai Alwar Street, Kurumbalaperi, Keela Pavoor (Post), Thenkasi	Tamil Nadu	2008-09	1928000	482000	353750		Shell powder (10 MT shell per day)
29	Kerala Malanadu Karshaka Produce Co-operative Marketing Society -II (Expansion)	Kerala	2008-09	12500000	1993000	996500	10000	Coconut oil
30	M/s. Kongunad Anglo Products, SF No. 1468/1, Panchapalayam Village, Olappalayam. P.O. Kangayam	Tamil Nadu	2008-09	22500000	5000000	4364900		Shell powder (45 tons per day)
31	M/S. Indo German Carbons Ltd, Edayar Industrial Area , Binanipuram, Ernakulam	Kerala	2008-09	20600000	4100000	3725000		Activated Carbon (1200 MT of special grade powder activated carbon and 1500 MT Washed activated carbon per annum.)
32	M/s. K.M.R. Industries, Chinnakannara Street, Mayiladuthurai.	Tamil Nadu	2008-09	3695000	923700	668723	10000	Desiccated Coconut
33	Shri. M.V. George, Mayamprambil, T.V. Puram, Vaikom	Kerala	2008-09	143700	35600	17800	2000	Copra
34	The Kozhikode Sahakarana Marketing Society Ltd. No.D.2817, Chathamangalam, Kozhikode	Kerala	2008-09	5450000	1362500	681200	10000	Coconut Oil & coconut vinegar

35	Shri. Mohammed Jaleel, Moosan Kakkada Moosankakkada House, Andrott Island, Lakshadweep	UT of Lakshadweep	2008-09	1930000	320000	262180	10000	Copra
36	Integrated Coconut Processing Unit-Kallamkunnu, SCB,Thrissur - II (Expansion)	Kerala	2008-09	5850000	1356000	1353000	10000	Packed, Branded Coconut Oil
37	M/s. Goa Coconut products	Goa	2009-10	1925200	421300	333700	10000	Copra
38	M/s. Sarvashakthi Agro Products, Udupi, Karnataka	Karnataka	2009-10	11737000	2934200	2640800	60000	Desiccated Coconut
39	M/s. Amman Oil Mills, Kallankadu, Erode	Tamil Nadu	2009-10	2008400	5021000	295700	10500	Coconut oil (1.5 Ton Copra per day)
40	M/s. Jaimatha Agro Industries, Tiptur, Karnataka	Karnataka	2009-10	12796000	3199000	3165500	100000	Desiccated Coconut
41	M/s. Jaimatha Estates, Monippally.P.O., Kottayam (Expansion)	Kerala	2009-10	13550000	3387500	1406250		coconut vinegar (5000 litres per day)
42	M/s. V&V Agro Foods, Palakkad.	Kerala	2009-10	6044400	1511000	755500	12000	Desiccated Coconut
43	M/s. Super Coco Company, Pollachi	Tamil Nadu	2009-10	7647500	1911800	1723700	50000	Desiccated Coconut (5 Tons per day)
44	M/s. Vettathunadu Coconut Products, Malappuram	Kerala	2009-10	3400000	850000	754000	10000	Coconut oil
45	M/s. Vigneswara Shell Charcoal, Tamilnadu	Tamil Nadu	2009-10	2380000	595000	535500	5000	VCO (3000 - 5000 nuts per day)
46	The Inchakundu Service Co-operative Bank Ltd.	Kerala	2009-10	3530496	882624	386300	10000	Copra and Coconut Oil
47	M/s Dhanalakshmi Agro Products	Karnataka	2009-10	5244000	1311000	1166900	10000	Desiccated Coconut (1Tons per day)
48	M/s. Coco Carbons (India) Pvt. Ltd., Nelmangala Taluk, Bangalore	Karnataka	2009-10	39837400	5000000	4500000		Activated carbon (8 tons per day)
49	The Kotachery Co-operative Marketing Society Ltd., Kasaragod.	Kerala	2009-10	1947000	487000	373600	30,000	Milling copra,Edible copra, Coconu oil.
50	M/s.Rare Industries, Manipuram.P.O., Muthambalam, Koduvally, Kozhikode District	Kerala	2009-10	7636000	1653000	763600	20000	coconut oil
51	M/s. Three star Industries, Kalady	Kerala	2009-10	797600	199400	99700		Coconut wood products (10 coconut wood per week)
52	M/s. Srinivas Coconut Products , Trichy, TN	Tamil Nadu	2009-10	473900	111000	99000	10000	copra
53	M/s. Little Flower Oil Mill and Proessing unit, Malappuram	Kerala	2009-10	1344000	336000	327300	7500	coconut oil
54	M/s. Sri. Balaji Oil Industries, Uduppi, Karnataka	Karnataka	2009-10	4369000	716000	645075	14000	coconutoil
55	M/s. Universal Carbon, Trichy, Palladam	Tamil Nadu	2009-10	31222000	5000000	4833800		Activated carbon (3 MT per day)
56	M/S. Sri Akshaya Agro Processing, Gedlehalli Village, Byranayakanahalli Post, Tiptur, Tumkur	Karnataka	2009-10	10850000	1946000	887900	30000	Desiccated Coconut

57	M/s. Benzfab Foods Pvt Ltd, 1/19, Saheed Nagar, Bhubaneswar, Orissa	Orissa	2009-10	22041000	5000000	2500000	10000	Tender Coconut Water
58	M/s. Siddeswara Agro Industries, Siddapura Village, Konehalli Post, Tiptur TK, Tumkur	Karnataka	2009-10	13400000	2400000	1092050	25000	Desiccated Coconut
59	M/s. AMS group, Pattambi	Kerala	2009-10	31074000	5000000	4500000	40000	Coconut Oil
60	M/s. Parisons Foods Pvt. Ltd, 6/1183, Cherooty Road, Calicut,	Kerala	2009-10	45000000	5000000	2500000	350000	Coconut Oil
61	M/s. Kottoor Extractions, 10th Mile, Udayamperoor, Ernakulam District	Kerala	2009-10	11300000	1788800	763600	7500	Virgin Coconut Oil
62	M/s. KLF Nirmal Industries (P) Ltd. Thrissur	Kerala	2009-10	39515000	4593500	4114000	210000	Coconut Oil
63	M/s. S.S. Coconut Industries Kangayam Tamil Nadu	Tamil Nadu	2009-10	9674000	1791000	773850	30000	Desiccated Coconut
64	M/s Al-Jazeerath Industries and Trading Company		2009-10	2899000	591400	295700	8750	Coconut oil
65	Smt.A Rukmini Devi, Mandal, (Via)Sivakodu, Andhra Pradesh	Andhra Pradesh	2009-10	1060000	265000	238500	1000	Copra
66	M/s.Kattippara Coconut Industries, Kattippara PO, Calicut	Kerala	2010-11	5000000	1170000	1048500	13000	Coconut oil
67	M/s. GeeDee Mills, Elenthikara, Puthenvelikara, Ernakulam Dist.	Kerala	2010-11	5174000	702000	532400	7500	Coconut oil (9000 kg copra per day)
68	The Kulanada Agricultural Marketing & Processing Co-operative Society Ltd., Kulanada, Pathanamthitta	Kerala	2010-11	5460000	1068000	534000	5000	VCO and Coconut Vinegar
69	M/s. Keramitra, Engandiyur Post, Trichur	Kerala	2010-11	1986000	496500	446850	5000	Coconut oil
70	M/s. VG Tinder Products (P) Ltd, Nagar Main Road, Reddiyur, Salem, Tamil Nadu	Tamil Nadu	2010-11	9243000	1935200	1741680		shell powder (12 MT per day)
71	M/s. Modern Oil Mills, Kozhikottiri, Ottappalam Taluk, Palakkad - II (Expansion)	Kerala	2010-11	4400000	679400	339700	17000	coconut oil and milling copra
72	M/s. Dhanalakshmi Food Tech, Gedlehalli, Halkurke Road, Byranayakanahalli Post, Tiptur	Karnataka	2010-11	6192000	1027500	924750	40000	Desiccated Coconut Powder 3.24 ton
73	M/s. Shri Vigneshwara Coconut Industries, Elimale, Sullia	Andhra Pradesh	2010-11	3200000	372000	334800	10000	Copra
74	Shri. Gokavarapu Venkata Ramana Murthy, Mnachavaram Panchayath, Ambajipeta E. Godavari Dist, Andhra Pradesh	Andhra Pradesh	2010-11	1250000	216000	194400	3000	Ball copra (3000 nuts per batch)
75	M/s. Vetham Agro Industries, Sundar Kudil, Perumal Koil Street, Ramanathapuram, Coimbatore	Tamil Nadu	2010-11	10000000	1250000	622500		Shell Powder (10 MT shell per day)
76	M/s. Sree Balaji Oil Mills, Rajaji, Kangayam, Tirpur Dist, Tamil Nadu	Tamil Nadu	2010-11	7911000	1730300	865150	60000	Coconut Oil

77	M/s. Panickers Coconut Industries, Bantra Village, Mardhala Post, Puttur Taluq, D.K. Dist. Karnataka	Karnataka	2010-11	9900000	1706000	907500	10000	Virgin Coconut Oil
78	Sri Soubhagya Agro Foods & Minerals Pvt Ltd, Visakhapatnam	Andhra Pradesh	2010-11	7683000	1652300	826150		Shell powder (10 MT shell per day)
79	M/s. Umamaheswari Industries, KN Hally, B. H. Road, Tiptur Taluk, Tumkur	Karnataka	2010-11	4990000	985500	492750	16000	Desiccated Coconut
80	M/s. VSA Foods & Beverages Pvt. Ltd, Market Yard, Gultekdi, Pune, Maharashtra	Maharashtra	2010-11	15396000	3422500	2476570	10000	Tender Coconut Water
81	M/s. Maharaja Coconut Products, Panthakkalmedu, Thenkurissi PO, Palakkad	Kerala	2010-11	3710000	532000	474500	10000	Desiccated Coconut
82	M/s. Rehmania Rice, Flour & Oil Mill, Cholakulam, Melattur, Malappuram	Kerala	2010-11	6450000	1313000	656500	30000	Coconut oil
83	M/s. Swastika Coco Products Pvt. Ltd, Katbalthur Village & Post, Kundapur Taluk, Udupi	Karnataka	2010-11	18657000	2390500	1195250	10000	Desiccated Coconut
84	M/s. Srinithi Agro Industries, Nallampalayam, Alathur, Salem, Tamil Nadu	Tamil Nadu	2010-11	9235000	2015000	1813500		Shell powder (15 MT per day)
85	M/s. Ganga Coconut Foods, Muthur Road, Panchapalayam - PO , Pappini Village, Kangayam Tirpur Dist. TN	Tamil Nadu	2010-11	15665000	2518500	2235420	40000	Coconut Oil
86	M/s.Chandrathil Food Products, South Aduvassery, Aduvassery, Ernakulam	Kerala	2010-11	1700000	376500	313830		Vinegar (1000 Ltr)
87	M/s. Sri Rama Industries, Main Road, Yelmudi, Puttur, Dakshina Kannada, Karnataka	Karnataka	2010-11	3184000	517750	258875	10000	coconut oil
88	M/s. Coco Kernel Product, NH 206, BH Road, Madhihalli, Tiptur, Karnataka	Karnataka	2010-11	4406000	1101000	550500	30000	Desiccated Coconut
89	Shri. Vignesh Kumar, Shell craft leader, Dindigul, TN	Tamil Nadu	2010-11	3997000	591900	295950		Shell charcoal (7 MT)
90	M/s. Pavitra Kera Products, Kundukad, Kizhakkanchery, Alathur, Palakkad	Kerala	2010-11	7604000	1346700	1050500	20000	Virgin Coconut Oil
91	Sree Konaseema Coconut Food Products, Ambajipet Mandal, E.G. Dist, AP	Andhra Pradesh	2010-11	4400000	620000	310000	12000	Desiccated Coconut
92	M/s. Farmcompact Coconut Products Pvt. Ltd., Thanjavur, Tamilnadu	Tamil Nadu	2011-12	12575000	2673200	1336600	15000	Virgin Coconut Oil
93	Shri. Suneshan V. K.,Sreevalsom, Thalassery, Kannur	Kerala	2011-12	626700	77500	38750	15000	Ball copra (15000 nuts per batch)
94	EBE Liza Enterprises, Tamilnadu	Tamil Nadu	2011-12	10310000	2058000	1029000		Activated carbon (1.50 MT per day)

95	Pure Tropic, Mangalam Road, Karuvampalayam, Tirupur, Tamil Nadu	Tamil Nadu	2011-12	10200000	2300000	1150000	3000	Tender Coconut Water
96	M/s. Sharni Carbon, Kariyanchettipalayam, Pollachi, TN	Tamil Nadu	2011-12	4988000	1022400	511200		Shell charcoal (40 MT shell/day)
97	M/s. KKP Industries, Nallipalayam, Padiyur Post, Kangayam Taluk, Tirupur, TN	Tamil Nadu	2011-12	16218800	2699200	1349600	40000	Desiccated Coconut (4 MT per day)
98	RB carbon, Tirupur, Tamilnadu	Tamil Nadu	2011-12	17223000	2958100	1479100		Shell charcoal (90 MT shell per day)
99	M/s. Asian Industries, Bye-Pass Road Padamudipalayam, Valur PO, Namakkal, TN	Tamil Nadu	2011-12	10000000	2335900	1167950		Shell powder (10 tons shell per day)
100	Shri Appana Naga Venkateswara Rao, AVR & CO. – Copra Merchant, Ambajipetta, East Godavari A.P	Andhra Pradesh	2011-12	2300000	325000	292500	15000	Ball copra
101	Mr. P.J Thomas, Padijarethottiyil, Kooranchundu, Kozhikode	Kerala	2011-12	500000	72500	36250	40000	Ball copra
102	Shri. Hameed VS, Vellikulath House, Koorachundu, Kozhikode	Kerala	2011-12	375000	26250	13125	15000	Ball copra
103	M/s. Kovai Agro Foods, Meenakshipuram, Pollachi	Tamil Nadu	2011-12	23611000	4492000	2246000	56000	Desiccated Coconut
104	Mr. T.V. Thomas, Thekkekkuttu House, Vettilappara PO, Malappuram	Kerala	2011-12	390000	62000	31000	3000	Ball copra
105	M/s. Surya Shobha, Shobha Engineering Co. Complex, Peringandoor, Athani, Thrissur	Kerala	2011-12	20700000	4847500	2423750	20000	Spray Dried Coconut Milk Powder
106	Nexus Frozen Fruits Containers & Foods Pvt. Ltd, Manickamangalam PO, Kalady, EKM Dist	Kerala	2011-12	5402000	1313000	656500	20000	Shell ice cream cup

5 PROJECT FOR MARKET RESEARCH AND PROMOTION					
No	Name of the Project	Year of sanction	Cost of the Project	Amount sanctioned by PAC	Amount released
a. Market Research					
1	Study entitled "A Critical Assessment of the Economics of Production of Coconut and Copra Milling Industries in Tamil Nadu and Puduchery"- Department of Agricultural Economics ,TNAU, Coimbatore	2006-07	8.91	5.14	2.57
2	Proposal for Market Research Studies - M/s. Xavier Institute of Management, Bhubaneswar	2008-09	23.99	11.93	10.44
b. Market Promotion					
1	Demonstration and adoption of technologies on coconut: Participatory Planning and action through self – Help Associations of Coconut farmers in Dindigal District of Tamil Nadu - Gandigram Rural Institute, Gandhigram, Tamil Nadu	2002-03	42.55	39.20	27.39
2	promotional activities – Adsorbent Carbons Ltd, Egmore, Chennai	2005-06	25.25	10.00	1.00
3	Market promotion of tender coconut water on cluster approach - Secretary, Agricultural Urban Whole Sale Market, Kozhikode	2006-07	31.53	18.88	9.44
4	Market Promotional activity of tender coconut with Minimal Processing – President, Kanjikuzhy Grama Panchayat, Alappuzha at a cost of Rs.8.715 lakhs	2006-07	8.72	5.84	3.52
5	Market Promotional activity of tender coconut with Minimal Processing – Secretary, Pattanakkad Service Cooperative Bank, Alappuzha at a cost of Rs.7.44 lakhs	2006-07	7.44	5.03	2.81
6	Market Promotional activity of tender coconut with Minimal Processing – Secretary, Uzhuva Service Cooperative Bank, Alappuzha at a cost of Rs.7.415 lakhs received from Uzhuva Service Cooperative Bank, for procurement and marketing of tender nut.	2006-07	7.42	5.00	2.80
7	Market Promotional Programme for KSB Kalpasree coconut products - The President, Kallamkunnu Co-operative Bank Ltd., No.R.314, Kallamkunnu P.O. Nadavaramba, Irinjalakuda, Thrissur The project was approved in the 22ndPAC held on 01.02.2007	2006-07	30.00	25.00	24.69

8	Market promotional Programme for Velco Brand coconut products - M/s Vellur Service cooperative Bank Ltd. No.3971, Vellur P.O Via Payyannur, Kannur, Kerala	2006-07	30.00	25.00	22.67
---	--	---------	-------	-------	-------

9	Scheme for providing tender coconut merchandising to SHGs, NGOs etc at subsidized rate Total cost -Rs.17.00 lakhs for 200 units @Rs.8500/ with Board share of Rs.15.00 lakhs @ Rs.7500/	2006-07	17.00	15.00	7.32
10	Market Promotional Programme for KSB "Neethi" Brand Coconut Oil - Karalam Service Co-operative Bank Ltd. No.R.600, Kizhuthani P.O., Thanissery, Thrissur	2006-07	33.00	25.00	24.31
11	Market Promotional Programme for branded coconut products - the President, Sevashram, Mangattukara, Puliyanam P.O., Angamaly	2007-08	10.00	10.00	3.44
12	Proposal for Generic Promotion of Coconut Products -in Delhi Metro Railway Station - Directly by the Coconut Development Board .	2007-08	35.40	35.40	35.40
13	Market Promotional Programme for Cocogem Brand Coconut Oil by Malabar Extractions Pvt. Ltd., Karaparamba, Calicut-	2007-08	20.00	10.00	6.71
14	Market Promotional Programme for 'Heartonica' Brand coconut products by the Kerala Malanad Karshaka Produce Co-operative Marketing Society Ltd., Thiruvampady, Kozhikode.	2007-08	25.00	25.00	24.98
15	Proposal for financial assistance for the promotion of the packed tender coconut water by M/s.Fortune Beverages Pvt. Ltd., Gayatri Bhavan, Rajkot, Gujarat.	2007-08	2.35	2.35	
16	Market Promotional Programme for 'SARAS GOLD' Brand Coconut Oil by M/s.St.Mary's Oil Industries, Kadathy, Muvattupuzha	2007-08	16.75	8.38	2.41
17	Pilot Testing Study on Procurement of Coconut under Minimum Support Price Operations-Coconut Development Board	2007-08	5.00	5.00	0.99
18	Export of raw coconut from Kerala to middle east countries – Smt. Sandhya Engoor, Divyadarsan Engoor, Engoor House, Thirthallur P.O., Trichur	2008-09	47.06	10.00	
19	Market Promotion of 'M.P.Brand Super' Brand Coconut Oil -M/s Sree Shanmugha Coconut Drying & Oil Mill, Ramanattukara, NH-17, Calicut	2008-09	20.00	10.00	8.12
20	Consumer Acceptability of newly developed coconut convenience food products-IMRB International, Mumbai	2008-09	12.89	12.89	12.58
21	Market Promotional Programme -Kiosk (at Veli Tourist Village)- Shri.A.Sukumaran Nair,Thiruvananthapuram	2008-09	1.87	0.63	0.46

22	Market Promotional Programme - M/s. Cheekanal Industres & Trading Company	2008-09	16.00	8.00	7.99
23	Market promotional activities of activated carbon - M/s. Indo German Carbons Limited, Binanipuram	2008-09	24.00	10.00	7.23
24	Market promotional activities of VCO - M/s. Keratech Coconut Oil Manufacturing Company (P) Ltd., 1/332 B, P.O. Engandiyur, Trichur	2008-09	10.00	10.00	3.84
25	Setting up of retail outlet for tender coconut & other coconut products - Anaswara Kudumbasree Unit, Kozhikode	2008-09	1.00	0.40	0.15
26	Exp in connection with conduct of wrkshop meeting etc. & cost of coconut products supplied to IICT, Hyderabad, Cost of VCO 200 ml supplied to IICT	2008-09	-	-	0.73
27	Market Promotional Programme for ' Genuine Shell Carb ' brand Activated Carbon - M/s. Genuine Shell Carb(P) Ltd., Coimbatore	2008-09	10.70	5.35	4.35
28	Market Promotional Programme - M/s. Kerala Industrial Infrastructure Development cooperation, Kinfra house, Trivandrum		-		5.00
29	Market Promotion of 'AMRUTHAM' Brand Coconut water based vinegar.- M/s. Jaimatha Estates, Monippally P.O. Kottayam Dist, Kerala.	2009-10	8.00	4.00	3.47
30	Market Promotional activities for promoting COCO COOL N FRESH Tender Coconut Water -M/s. Sri. Jayalakshmi Food Products, Brahmanagudem, West Godavari, AP	2009-10	20.00	10.00	2.50
31	Market Promotional Programme -Anjarakandy Farmers Service Co-operative Bank Ltd., Kannur	2010-11	-	25.00	22.84
32	Market Promotional Programme for establishing a tender coconut stall at International Airport, Kozhikode- Mr. Muhammed Basheer, Nediyruppu, Malappuram	2010-11	2.2.	1.10	1.03
33	Market Promotional Programme for reimbursement of 50% of expenditure incurred for Agmark grade coconut oil -M/s. Anand Oil Mills, Muvattupuzha.	2010-11	20.00	10.00	4.55
34	Market Promotional Programme -Kodur Service Co-operative Bank	2010-11	30.00	25.00	17.44
35	Market Promotional Programme for promoting Agmark grade coconut oil under the brand name "DOUBLECOCK" -M/s. Ramananda Oil and flour Mills, South Bazar, Cannanore District	2010-11	23.58	10.00	3.97
36	Market Promotional Programme to promote coconut oil under the brand name SILVERDROP- M/s. Silver oil mills, Malappuram	2010-11	21.00	10.00	2.94

37	Market Promotional Programme for promoting coconut milk under sanctioned project -M/s. Dinesh Foods, Kannur, Kerala	2010-11	53.00	25.00	1.28
*	Market Promotional Programme for 56th summer fancy food show 2010 scheduled to be held at Javits Center, New York-June 27 - 29, 2010	2010-11	-	-	9.52
*	Market Promotional Programme for 57th scheduled to be held at Walter-E Washington Convention center, Washington DC, USA from 10th to 12th July 2011	2011-12			7.63
38	Market promotional programme for promoting product 'Anu Coco-100% Tender Coconut Water'	2011-12			0.80
39	Market promotional programme for promoting "KERASREE" Brand coconut oil - M/s. Kotassery Co-operative Marketing Society, Kasaragod	2011-12	24.50	24.50	13.50
40	Market Promotional Programme Coconut processing for the production of good quality filtered coconut oil under the brand name "CHOMS"- M/s. Chettor Oil Mills Peringuzha, Muvattupuzha, Ernakulam	2011-12	27.00	10.00	3.20