Grams Te: 'RESEARCH' Kasaragod Fax

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केन्द्रीय रोपण फसल अनुसंधान संस्थान

(भारतीय कृषि अनुसंधान परिषद) कासरगोड़ - ६७११२४, केरल, भारत Phone: 04994 - 232 893 - 5 Email: cpcri@hub.nic.in

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CENTRAL PLANTATION CROPS RESEARCH INSTITUTE

(Indian Council of Agricultural Research) KASARAGOD - 671 124, KERALA, INDIA

Date: 08.08.2014

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REGISTERED

Shri Shriharsha, N. House No. 423, 1st Floor, 1st A Main, 16th Cross, 4th Phase BANGALORE - 560 078

Sub: Right to Information Act, 2005 - Information furnishing of -reg.

Ref: Your application dated 24.06.2014 (RTI Application No.28/2013-14)

Sir,

With reference to your RTI application dated 24.06.2014 received through ICAR, New Delhi on 22.7.2014, I am to furnish below the following information:

Query	Information provided
No.	·
1.	List enclosed
2.	The research work on arecanut is one of the mandates of our Regional Station at Vittal, Karnataka. In addition, the research work on Cocoa is also being carried out there. As we do not keep separate account for research on each crop, the amount spent exclusively for research work on arecanut is not available. However, a statement showing the expenditure of Vittal Station from 2002-03 to 2013-14 is furnished herewith. This figure also include the payment to the entire staff of the Station, expenditure involved for maintenance of the Station, developmental activities of the Station etc.
3.	List enclosed

This disposes off your request under the provisions of Right to Information Act-2005. In case you desire to file an appeal on this issue the same may be addressed to the Director, CPCRI, P.O. Kudlu, Kasaragod – 671 124, Kerala.

Receipt of the letter may please be acknowledged.

Encl: As above

Yours faithfully,

Administrative Officer &

Public Information Officer I/c

Copy to the Asstt. Director General (Hort.), ICAR, KAB-II, Pusa, New Delhi - 110 012 for information with reference to his letter No.14-4/2014-Hort.I dated 22.07.2014.

Reply to Q.No.1: List of activities/research done from 1947 with respect to research on arecanut

		7 10
S.No.	Activities/research on arecanut	1
1	Tissue culture for rapid multiplication of elite genotypes and basic studies in palms	-
2	Molecular characterization of arecanut	
3	Palm based mixed farming system for sustainable productivity and profitability	
4	Management strategies for arecanut production, health and nutrition	1
5	Organic farming and microbial technologies for arecanut	
6	Surveillance, monitoring of possible invasive and emerging pests and refinement of IPM of palms	1
7	Antimicrobial and anticariogenic activities of arecanut	1
8	Adaptation strategies for drought and temperature stress management in arecanut] .
9	Statistical investigations for improving research methodology in plantation crops	1
10	Transfer of technology programmes in arecanut	1
11	Policy oriented research on palms	
12	Soft computing techniques in plantation crops research	
13	Seed production in arecanut	
14	Farmers participatory research cum demonstration plots on arecanut based cropping system(ABCS)	
15	Germplasm collection, conservation, characterization and breeding for high yield in arecanut	
16	Genetics of dwarfs in arecanut and their exploitation in breeding dwarf varieties	
17	Studies on the natural enemies of insect pests of areca-cocoa ecosystem] '
18	Areca based mixed farming system	
19	Nutritional disorders in arecanut	
20	Performance of medicinal and aromatic plants in arecanut plantation	
21	Drip fertigation in arecanut + cocoa mixed cropping system	
22	Crop production model for decision support system in arecanut	
23	Evaluation of arecanut for alternative uses	
24	Analysis of organic farming practices practiced by farmers in plantation crops	
25	Development of IPM technology for palm based production system – Integrated management of	
	Homoptera pests of areca palm	
26	Developing low cost composting techniques for plantation wastes and their effect on the	
	productivity of arecanut	
27	Vermiculture eco-technology for sustainable recycling of farm wastes in relation to nutrition and	
	productivity of arecanut	
28	Studies on agronomic aspects of arecanut based HDMSCS for West Bengal	
29	Arecanut based HDMSCS model for Assam	
30	Studies on fertilizer application through micro irrigation technique in arecanut	
31	NPK requirement of high yield in arecanut	
32	Vermicomposting of palm wastes	
33	Integrated management of white grubs in arecanut	
34	Studies on white grub of arecanut based cropping system in North East	
35	Studies on natural enemies of major insect pests of areca palm	
36	Economics of arecanut based farming system	
37	Integrated nutrient management in arecanut based cropping system for sustainable productivity	
	under coastal ecosystem	
38	Evolving high yielding varieties by selection and hybridization in arecanut	1
39	Field trial on vermicompost in arecanut	
40	Integrated nematode management in plantation crops and cropping systems	
41	Preparation of composts by various methods and its impact on the nutrition and productivity of	
	arecanut	

42	Biometrical investigations on yield variability in arecanut
43	Studies on fertilizer application through microirrigation technique in arecanut
44	Evaluation of arecanut for alternate uses – Antimicrobial studies
45	Production and marketing aspects of palms
46	Sampling techniques in crop loss estimation
47	Estimation of post harvest loses of arecanut
48	Development of harvesting and spraying machinery for arecanut
49	Exploitation of dwarfing genes in the improvement of arecanut
50	Multi dimensional analysis of development, transfer and utilization of technology in arecanut
51	Pesticide residue determination in palms
52	Development of power operated arecanut sprayer
53	In vitro multiplication of arecnaut
54	Areca based mixed farming system
55	Studies on marketing, price analysis and international trade of arecanut
56	Development of database for plantation crops
57	Organic farming technologies for plantation crops
58	Drip irrigation cum'nutritional studies on arecanut + cocoa mixed cropping system
59	Second generation experiment on areca based HDMSCS – Vittal
60	Second generation experiment on areca based HDMSCS – Hirehalli
61	Economics of perennial crop based farming systems
62_	Biological nitrogen fixation studies by management of basins and interspaces in plantation crops
63	Studies on phosphate solubilizing and indole producing microorganisms associated with palms
64	Utilization of plantation wastes for production of compost and edible mushrooms
65	Refinement of experimentation techniques in plantation crops
66	Statistical investigation with arecanut
67	Use of nonparametric methods in experiments with plantation crops
68	Production of hybrid seed nuts and superior quality planting materials
69	Vesicular arbuscular mycorhizial association in plantation crops
70	In vitro and other biotechnological approaches for improvement of Horticultural crops
71	Strategy for production of planting materials and breeders stock of plantation crops
72	Perennial crops based farming system
73	Physiological studies in high density multi cropping systems
74	Studies on the burrowing nematodes of arecanut
75	Evolving high yielding varieties by selection and hybridization
76	Effect of different intervals of irrigation and mulching on arecanut
_ 77	Nutritional requirement of arecanut
78	Microbial degradation of arecanut husk for recycling
79	Nutritional requirement of arecanut
80	Investigations on alternate uses of arecanut
81	Industrial uses of arecanut leaf sheath
82	Antidiabetic activity of arecoline
.83	Design and development of improved devices for dehusking arecanut
84	Introduction and evaluation of arecanut germplasm and trial of promising varieties
85	Effect of different intervals of irrigation and different depths of planting arecanut
86	Arecanut improvement by mass pedigree selection
87	Nutritional requirements under different soil types
88	Introduction and maintenance of indigenous and exotic species and types of areca for selection,
89	hybridization and cytogenetic studies Lightidization between events and indigeness types and appeals of green, the control of
89	Hybridization between exotic and indigenous types and species of arecanut

	the second secon
90	Efficiency of phenotypic selection of mother palms seednuts and seedlings of arecanut
91	Effect of different methods of inter cultivation on the productivity of arecanut palms
92	Economics of arecanut cultivation
93	Investigations on developing alternate uses for arecanut other than chewing
94	Investigations on die back diseases of arecanut
95	Survey of assessing crop loss due to disease of arecanut
96	Storage pests of arecanut
97	Biology and control of white grub in arecanut
98	Secondary selection in Mangala
99	Determination of optimum spacing for arecanut in the main field
100	Intercropping experiment in arecanut and banana
101	Mixed cropping experiment in arecanut and cocoa
102	NPK Manurial experiment for arecanut
103	Placement and fractional application of fertilizer for arecanut
104	Root studies of arecanut palms of different ages and under different soil conditions
105	Crop weather study in arecanut
106	Mobility and availability of applied phosphorus in soil profile
107	Comparative study of different green manure and cover crops and their organic matter addition
	capacity
108	Studies on nutrient exhaustion by areca palm
109	Composition changes in soil and plant by the continuous use by the fertilizers, manures and cultural practices
110	Bionomics and control of mites in arecanut
111	Marketing problems of arecanut
112	Survey of arecanut garden to select superior types
113	Relative performance of different indigenous types of arecanut
114	Physiological studies on fruit setting and shedding of arecanut
115	Method of composting of arecanut husk
116	Study of sun scorching of stem and methods of control
117	Control of weeds in arecanut garden
118	Study of dwarf palm and its progeny

बधान

केन्द्रीय रोषण फसल अनुसंघान संस्थान प्रादेशिक केन्द्र, विष्टल

Head

Central Plantation Crops Research Institute Regional Station, Vittal - 574243

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Reply to Q.No.3: Details of research that has been done with respect to the diseases affecting arecanut

S.No.	Research on diseases affecting arecanut
1	Density analysis of <i>Phytophthora</i> causing fruit rot/crown rot of arecanut and their
	management
2	Investigations on symptom variation, host pathogen interaction and management of yellow
	leaf disease (YLD) of arecanut
3	Acquisition and transmission dynamics of potential vectors of arecanut yellow leaf disease
4	ICAR Outreach project on Phytophthora, Fusarium and Ralstania diseases of horticultural
	and field crops
5	Phytoplasma diseases of arecanut – Development of molecular diagnostics
6	Investigation on YLD of arecanut – Studies on inherent and induced resistance against pathogens
7	Management of yellow leaf disease in arecanut
8	Integrated management of bud/crown rot diseases of areca palm
9	Investigation on YLD of arecanut
10	Management of Phytophthora diseases of arecanut
11	Epidemiology of <i>Phytophthora</i> diseases in arecanut
12	Network project of <i>Phytophthora</i> diseases of Horticultural crops (Phytonet)
13	Characterization of <i>Phytoplasmas</i> of palms
14	ICAR Network project on wilt of crops with special reference to cultural, morphological
	molecular characterization and pathogen variability of isolates in India with regard to
	Ganoderma wilt of areca
15	Management of YLD in arecanut gardens and production of elite planting materials
	resistant/tolerant to disease
16	Investigations on yellow leaf disease of arecanut with special reference to host plant
	resistance
17	Development and improvement of IDM technology for basal stem rot disease (Ganoderma) of arecanut
18	Pathological investigations in HDMSCS
19	Studies on Mycoplasma like organisms
20	Studies of <i>Phytophthora</i> spp. of arecanut and arecanut based cropping system
21	Investigations on the YLD of arecanut with reference to MLOs
22	Studies on the epidemiology of <i>Phytophthora</i> of arecanut and arecanut based cropping system
23	Leafspot diseases of arecanut in North Canara
24	Anabe disease of arecanut
25	Management practices for YLD affected areca garden
26	Investigation on Koleroga in arecanut
27	Bacterial leaf stripe disease of arecanut
28	The role of bacteria and mycoplasma in the etiology of YLD of arecanut
29	YLD of arecanut – physiological studies
30	Investigations on die back diseases of arecanut
31	Survey of assessing crop loss due to disease of arecanut
32	Possible role of fungus Gloeosporium on die back of areca inflorescence

सहाजक लोक सूचना अधिकारी के.रो.क.अ.स., ब्रादेशिक क्षेत्र, विड्ल-५७४ २४३, कर्नाटक Asst, Public Information Officer CPCRI. Regional Station, Vittal - 574 243

केन्द्रीय रोषण फलल अनुसंघान संस्थान प्रादेशिक केन्द्र, विष्टल

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