

PANDIT JAWAHARLAL NEHRU COLLEGE OF AGRICULTURE AND RESEARCH INSTITUTE, KARAIKAL

A Government of Puducherry Institute, Affiliated to Pondicherry University
(Accredited by ICAR - NAEAB & CIB & RC, Listed Under Section 2(f) & 12(B) of UGC Act)



Annual Report 2020-21



PANDIT JAWAHARLAL NEHRU COLLEGE OF AGRICULTURE AND
RESEARCH INSTITUTE, KARAIKAL - 609603.

ANNUAL REPORT 2020-21



COMPILED AND EDITED

Dr. SHARMARAO JAHAGIRDAR, DEAN

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**PANDIT JAWAHARLAL NEHRU COLLEGE OF AGRICULTURE
AND RESEARCH INSTITUTE**

Karaikal - 609 603, UT of Puducherry, India.

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I. INTRODUCTION

I. INTRODUCTION

The Pandit Jawaharlal Nehru College of Agriculture and Research Institute (**PAJANCOA & RI**) is an autonomous institution fully funded by the Government of Puducherry and is managed by the **PAJANCOA (Karaikal) Society** registered under the Societies Act 1860. The PAJANCOA (Karaikal) society is administered by the following Board of governors:

- | | |
|---|---------------------------|
| 1. <i>Chief Secretary to Government of Pondicherry</i> | - <i>Chairman</i> |
| 2. <i>Secretary to Government in-charge of Agriculture, Pondicherry</i> | - <i>Member</i> |
| 3. <i>Secretary to Government in-charge of Finance, Pondicherry</i> | - <i>Member</i> |
| 4. <i>Secretary to Government in-charge of Education, Pondicherry</i> | - <i>Member</i> |
| 5. <i>Secretary to Government, Law Department, Pondicherry</i> | - <i>Member</i> |
| 6. <i>Director of Agriculture, Government of Pondicherry</i> | - <i>Member</i> |
| 7. <i>Two nominees of Pondicherry University</i> | - <i>Member(s)</i> |
| 8. <i>Managing Director, PASIC, Pondicherry</i> | - <i>Member</i> |
| 9. <i>One Agricultural educationist of Karaikal region</i> | - <i>Member</i> |
| 10. <i>One Agriculturist from Pondicherry region</i> | - <i>Member</i> |
| 11. <i>One Lady Social worker</i> | - <i>Member</i> |
| 12. <i>The Dean of the College</i> | - <i>Member Secretary</i> |

The College was started in October, 1987 under academic affiliation to Tamil Nadu Agricultural University (TNAU), Coimbatore and presently affiliated with Pondicherry Central University, Pondicherry. The college started functioning at its acquired site of Surakudi/ Serumavilangai from the year 1993 functioning in the serene agro-ecosystem between Nedungadu and Thirunallar, Karaikal.

VISION

To attain a status of

- Leading agricultural education, research and farming university.
- Satisfying the changing farm needs and
- Attaining sustainability in terms of
- Environment, production and socio-economic aspects of agriculture

MISSION

- To impart agricultural education and to meet the agricultural research and extension needs.
- To serve as a centre of academic excellence in agricultural sciences.
- To evolve new crop varieties, enhance agricultural production and preserve environmental quality.
- To offer training and consultancy to farmers, entrepreneurs and department officials.

The mandates on this institute are:

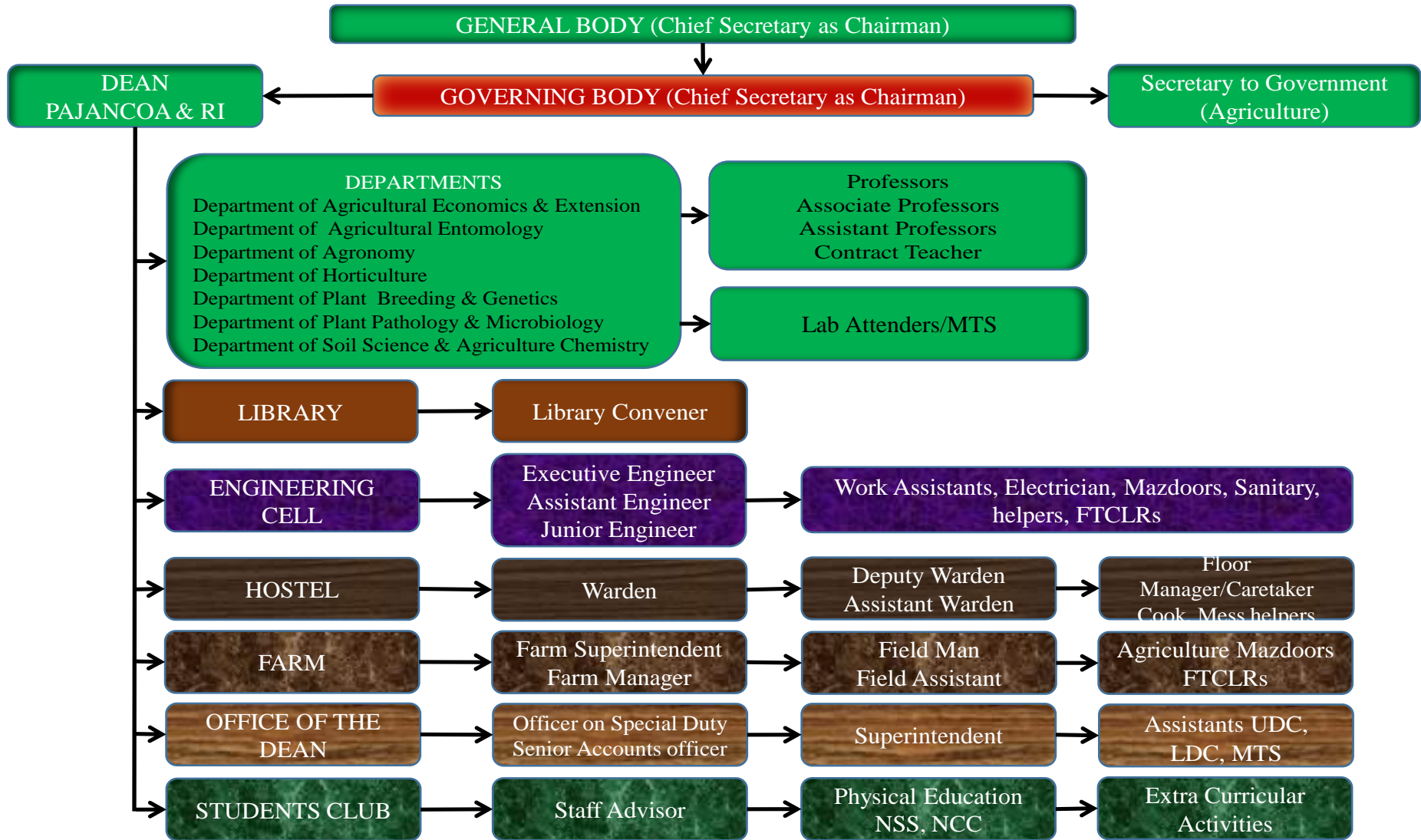
- To impart agricultural education and meeting the agricultural research and extension needs of the Union Territory.
- To impart state-of-art education in Agriculture.
- To serve as a center of academic excellence in under-graduate and post-graduate education in agricultural sciences, and to develop innovative concepts, hypothesis and production technologies.

I. Teaching: B.Sc.(Hons) Agriculture, B.Sc.(Hons) Horticulture Post graduate courses in five disciplines viz, Agricultural Economics and Extension, Agricultural Entomology, Agronomy, Horticulture, Plant Breeding and Genetics and Soil science and Agricultural Chemistry.

II. Research: This institute is carrying out P.G students research, externally funded projects of ICAR GOI – Ministry of Agriculture and Farmers' Welfare, DBT, DST, ICSSR and International Rice Research Institute. This institute is identified to carryout various ICAR - All India Coordinated Research projects in agricultural and horticultural crops, seed production breeder and foundation seeds. Apart from this research trials of various private agencies are also carried out due to the quality research support extended.

III. Extension: The services to the farming community of U.T of Puducherry are performed through conducting need based training, field visits, field trials, discussions, technical talks through radio and televisions, publications, etc.

ORGANISATIONAL STRUCTURE



ICAR – NAEAB Certificate of Accreditation



Accredited Academic Programmes

The accredited academic programmes of Pandit Jawaharlal Nehru College of Agriculture Research Institute, Karaikal, Puducherry			
College/Faculty/School	Period of Accreditation	Bachelor Degree Programmes	Master Degree Programmes
Pandit Jawaharlal Nehru College of Agriculture Research Institute, Karaikal, Puducherry	29.7.2019 to 28.07.2024	B.Sc. (Hons.) Agriculture	M.Sc. (Ag.) in - Agronomy, Agricultural Economics, Genetics and Plant Breeding, Soil Science and Agricultural Chemistry, M.Sc. (Horti.) Vegetable Science

II. ACADEMIC ACTIVITIES

II. ACADEMIC ACTIVITIES

1.ADMISSION OF STUDENTS

1.1 B.Sc. (Hons) Agriculture/Horticulture degree programmes of the year 2020-21

Sl. No.	Degree	No. of students admitted			No. of SC/ST students admitted		
		Boys	Girls	Total	Boys	Girls	Total
1.	B.Sc. (Hons) Agriculture	41	61	102	8	6	14
2.	B.Sc. (Hons) Horticulture	9	8	17	1	1	2

1.2 M.Sc. (Ag.)/ (Hort.) degree programmes of the year 2020-21

Sl. No.	Degree	No. of students admitted			No. of SC/ST students admitted		
		Boys	Girls	Total	Boys	Girls	Total
1	M.Sc. Agriculture/ Horticulture	6	23	29	Nil	5	5

Department/Discipline wise details of P.G students admitted in 2020-21

Department	Sanctioned strength	Actual intake		Total
		Boys	Girls	
Agricultural Economics	5	3	2	5
Agricultural Entomology	5	1	4	5
Agronomy	5	2	3	5
Plant Breeding & Genetics	5	0	5	5
Soil Sci. & Agri. Chemistry	5	0	4	4
Vegetable Science	5	0	5	5
Total	30	6	23	29

2. STUDENTS ENROLMENT

2.1 B.Sc. (Hons)Agriculture degree programmes

Sl. No.	Year of Admission	Sanctioned strength	Students on roll		Total
			Boys	Girls	
1.	I Year 2020-21 batch (Agri.)	120	41	61	102
2.	II Year 2019-20 batch (Agri.)	120	60	55	115
3.	III Year 2018-19 batch (Agri)	120	49	63	112
4.	IV Year 2017-18 batch (Agri)	121	52	69	121
Total			202	248	450

2.2 B.Sc. (Hons)Horticulture degree programmes

Sl. No.	Year of Admission	Sanctioned strength	Students on roll		Total
			Boys	Girls	
1.	I Year 2020-21 batch (Hort.)	40	9	8	17
2.	II Year 2019-20 batch (Hort.)	40	25	15	40
3.	III Year 2018-19 batch (Horti)	40	5	15	20
4.	IV Year 2017-18 batch (Horti)	40	11	29	40
Total			50	67	117

M.Sc.(Ag.)/(Hort.) degree programme

Year of admission	Discipline/ Department	Sanctioned strength	Students on roll		Total
			Boys	Girls	
I Year 2020-21 Batch	Agricultural Economics	5	3	2	5
	Agricultural Entomology	5	1	4	5
	Agronomy	5	2	3	5
	Plant Breeding & Genetics	5	0	5	5
	Soil Sci. & Agri. Chemistry	5	0	4	4
	Vegetable Science	5	0	5	5
	Total	30	6	23	29
II Year 2019-20 Batch	Agricultural Economics	5	3	2	5
	Agricultural Entomology	5	1	4	5
	Agronomy	5	1	4	5
	Plant Breeding & Genetics	5	0	5	5
	Soil Sci. & Agri. Chemistry	5	1	4	5
	Vegetable Science	5	1	4	5
	Total	30	7	23	30

2.2 Details of SC/ST students on roll during 2020-21 in UG programmes B.Sc. (Hons)

Agriculture

Sl. No.	Year	No. of students admitted			No. of SC/ST students admitted		
		Boys	Girls	Total	Boys	Girls	Total
1.	2020-21 (Agri.)	41	61	102	8	6	14
2.	2019-20 (Agri.)	60	55	115	7	9	16
3.	2018-19 (Agri.)	49	63	112	9	7	16
4.	2017-18 (Agri.)	52	69	121	3	8	11
	Total	202	248	450	27	30	57

2.3 Details of SC/ST students on roll during 2020-21 in UG programmes B.Sc. (Hons)

Horticulture

Sl. No.	Year	No. of students admitted			No. of SC/ST students admitted		
		Boys	Girls	Total	Boys	Girls	Total
1.	2020-21 (Hort.)	9	8	17	1	1	2
2.	2019-20 (Horti.)	25	15	25	2	4	6
3.	2018-19 (Horti.)	5	15	20	0	2	2
4.	2017-18 (Horti.)	11	29	40	2	3	5
	Total	50	67	102	5	10	15

2.4 Details of SC/ST students on roll during 2020-21 in PG programmes

Sl. No.	Year	No. of students admitted			No. of SC/ST students admitted					
		Boys	Girls	Total	SC		ST		Total	
					Boys	Girls	Boys	Girls	SC	ST
1.	I Year 2020-21	41	61	102	8	6	-	-	14	-
	II Year 2019-20	8	22	30	1	2	1	0	3	1
	Total	49	83	132	9	8	1	0	17	1

3. COURSES OFFERED FOR UNDER GRADUATE AND POST GRADUATE

PROGRAMMES (2020-2021)

3.1 B.Sc. (Hons) Agriculture degree programmes

I Semester:

Sl. No.	Course No.	Course Title	Cr.Hr.	Course Teacher	Course Associate
1.	AEX 101	Rural Sociology & Educational	2+0	Dr. S. Parthasarathi	—

		Psychology			
2.	AGM 101	Agricultural Microbiology	2+1	Dr. S. Sundaravarathan	Dr. S. Muthukumarasamy
3.	AGR 101	Fundamentals of Agronomy and Agricultural Heritage	2+1	Dr. R. Poonguzhalan	Dr. AL. Narayanan Dr. R. Mohan Ms. M. Pavithra
4.	CRP 101	Fundamentals of Crop Physiology	2+1	Dr. S. Nadaradjan	
5.	ENG 101	Comprehension & Communication Skills in English	0+1	Ms. Noyala Sebastin	—
6.	GPB 101	Fundamentals of Genetics	2+1	Dr. S. Thirumeni	
7.	HOR 111	Fundamentals of Horticulture	1+1	Dr. E. Venkadeswaran	Dr. M. Manikandan Dr. V. Deepika
8.	SAC 101	Fundamentals of Soil Science	2+1	Dr. L. Aruna	Dr. K. Coumaravel
9.	MAT 101	Elementary Mathematics	0+1	Dr. C. Vidhya	---
10	NSS 101 / NCC 101	National Social Service / National Cadet Corps	0+1	Dr. S. Jayasivarajan – NSS Dr. J. Sherly - NSS	—
11.	PED 101	Physical Education & Yoga Practices	0+1	Dr. S. Jayasivarajan	—
Total			13+10=23		

II Semester:

Sl. No.	Course No.	Course Title	Cr. Hr.	Course Teacher	Course Associate
1.	AEC 101	Fundamentals of Agricultural Economics	2+0	Dr. A. Pouchepparadjou	---
2.	AEN 101	Fundamentals of Entomology	2+1	Th. K. Devarassou	Dr. S. Palanivel Dr. V. Shanmuga Priya

3.	AEX 102	Fundamentals of Agricultural Extension Education	2+1	Dr. S. Parthasarathi	---
4.	AGR 102	Introductory Agro-meteorology & Climate Change	1+1	Dr. AL. Narayanan Dr. V. Sridevi	---
5.	BIC 101	Fundamentals of Biochemistry	1+1	Dr. U. Bagavathi Ammal	---
6.	COM 101	Agri- Informatics	1+1	Dr. S. Saravanan	---
7.	ENS 101	Environmental Studies and Disaster Management	2+1	Dr. K. Coumaravel Dr. S. Sundaravarathan	Dr. S. Muthukumarasamy
8.	FOR 101	Introduction to Forestry	1+1	Dr. J. Sherly	Dr. J. Sherly (A&B) Dr. E. Venkatesvaran (C)
9.	PAT 101	Fundamentals of Plant Pathology	2+1	Dr. C. Jayalakshmi	Dr. C. Rettinassababady Ms. D. Shanmuga Priya
10	NSS 101 / NCC 101	National Social Service / National Cadet Corps	0+1	Dr. S. Jayasivarajan – NSS Dr. J. Sherly – NCC & NSS	---
11.	PED 101	Physical Education & Yoga Practices	0+1	Dr. S. Jayasivarajan	---
Total			14+10=24		

III Semester:

Sl. No.	Course No.	Course Title	Cr.Hr.	Course Teacher	Course Associate
1.	AEC 201	Farm Management, Production & Resource Economics	1+1	Dr. L. Umamaheswari	Mr. C. Aroutselvam
2.	AEG 201	Farm Machinery and Power	1+1	Dr. S. Sivakumar	---

3.	AEN 201	Principles of Integrated Pest Management	1+1	Dr. V. Shanmuga Priya	Dr. S. Palanivel Dr. K. Devarassou
4.	AGR 201	Irrigation Management	1+1	Dr. R. Mohan	Dr. C. Susheela
5.	AMP 201	Livestock and Poultry Management	2+1	Dr. S. George Paradis	---
6.	ANM 201	Introductory Nematology	1+1	Dr. V. Ramesh	---
7.	GPB 201	Fundamentals of Plant Breeding	2+1	Dr. V. Vengadessan	Dr. D. Umamaheswari Ms. S. Pavithra
8.	HOR 211	Production Technology for Vegetables and Spices	1+1	Dr. V. Kanthaswamy	Dr. E. Venkadeswaran
9.	SAC 201	Problematic Soils and their Management	1+1	Dr. U. Bagavathi Ammal	Dr. K. Coumaravel
10.	SST 201	Principles of Seed Technology	2+1	Dr. T. Ramanadane	Dr. P. Pandian
11.	STA 201	Statistical Methods	1+1	Dr. G. Poonguzhali	---
12.	NSS 101 / NCC 101	National Social Service / National Cadet Corps	0+1	Dr. S. Jayasivarajan – NSS Dr. J. Sherly – NCC & NSS	---
13.	PED 101	Physical Education & Yoga Practices	0+1	Dr. S. Jayasivarajan	---
Total			14+13=27		

IV Semester:

Sl. No.	Course No.	Title	Credit hours	Course Teachers	Course Associates
1.	AGR 203	Agronomy of Field Crops- I	2+1	Dr. P. Saravanane	---

Sl. No.	Course No.	Title	Credit hours	Course Teachers	Course Associates
				Dr. C. Susheela	
2.	GPB 202	Principles of plant Biotechnology	2+1	Dr. V. Krishnan	Mrs. S. Pavithra
3.	SAC 201	Soil Chemistry and agrochemicals	2+1	Dr. L. Aruna	---
4.	AEC 202	Agricultural Marketing, Trade and Prices	1+1	Dr.A.Pouchepparadjou	Mr. C. Aroutselvam
5.	AEX 201	Dimensions of Agricultural Extension	1+1	Dr.S.Parthasarathi	---
6.	AEG 202	Renewable Energy	1+1	Dr. S. Sivakumar	---
7.	PAT 202	Applied Plant Pathology	1+1	Dr.C.Rettinassababady	Dr.C.Jeyalakshmi Ms.D.Shanmuga Priya
8.	HOR 211	Production Technology of Vegetables & flowers	2+1	Dr. J. Sherly	Dr. J. Sherly – (B&C) Dr.M.S.Marichamy– (A)
9.	STA 201	Applied Statistics	1+1	Ms. G. Poonguzhali	---
Total: 13+9=22					

V Semester:

Sl. No.	Course No.	Course Title	Credit Hours	Course Teacher	Course Associate
1.	AGR 301	Crop Production - I	0+1	Dr. V. Sridevi	---
2.	AGR 302	Agronomy of Field Crops- II	2+1	Dr. S. Mala	Dr. P. Saravanane
3.	GPB 301	Breeding Field crops	2+1	Dr. V. Krishnan	Dr. V. Vengadessan Dr. D.Umamaheswari

Sl. No.	Course No.	Course Title	Credit Hours	Course Teacher	Course Associate
4.	AEC 301	Agricultural Finance, Banking and Co-operation	1+1	Dr. K.S. Kumaravel	---
5.	AEN 301	Pests of Field Crops and Their Management	2+1	Dr. K. Devarassou	Dr. V. Shanmuga Priya Dr. S. Palanivel
6.	AEX 301	Extension Methodologies and Transfer of Agricultural Technology	1+1	Dr. A. Shaik Alauddin	---
7.	AEG 301	Post-Harvest Technology and Food Engineering	1+1	Dr. S. Sivakumar	---
8.	PAT 301	Diseases of Field Crops and Their Management	1+1	Dr. C. Rettinassababady	Ms. D. Shanmuga Priya Dr. C. Jeyalakshmi
9.	HOR 311	Production Technology of spice, aromatic, medicinal and plantation crops	2+1	Dr. M.S.Marichamy	---
10.	PJN 301	Short Tour	0+1	Dr. S. Saravanan	---
Total:12+10=22					

VI Semester:

Sl. No.	Course No.	Title	Credit hours	Course Teachers	Course Associates
1.	AGR 303	Crop Production – II	0+1	Dr. V. Sridevi Dr. AL. Narayanan	---
2.	AGR 304	Farming System and Dry Farming	2+1	Dr. P. Saravanane Dr. R. Mohan	---
3.	AGR 305	Organic Farming	1+1	Dr. R. Mohan Dr. S. Mala	----
4.	SAC 301	Manures, Fertilizers and Nutrient Management	2+1	Dr. K. Omar Hattab	Dr. K. Coumaravel (C – batch)

Sl. No.	Course No.	Title	Credit hours	Course Teachers	Course Associates
5.	AEC 302	Principles of Agribusiness Management	1+1	Dr. N. Swaminathan	Dr. T. Sivasakthi Devi
6.	AEN 302	Pests of Horticultural crops and their management	2+1	Dr. S. Palanivel	---
7.	AEX 302	Entrepreneurship development	1+1	Dr. A. Shaik Allaiddin	---
8.	PAT 302	Diseases of Horticultural crops and their management	2+1	Dr. C. Jeyalakshmi	Dr. C.Rettinassababady Ms. D. Shanmuga priya
9.	HOR 312	Post-harvest management and value addition of fruits and vegetables	1+1	Dr. V. Sundaram Mrs. R. Latha, KVK,	Dr. M. Manikandan Mrs. R. Latha, KVK
10.	ENG 301	Soft skills for Employability	0+1	Ms.NoyalaSebastin	
Total: 12+10 =22					

VII Semester

Sl.No	Course No. & Title	Course Teacher	Course Associate
1.	AEX 401 Rural Agricultural Work Experience (0+18)	Dr. S. Anand kumar	Group Teachers
2.	PJN 401 All India Study Tour (0+2)	Dr. V. Ramesh Year Co-ordinator	---

VIII Semester:

Sl.No	Course No.	Course Title	Course Teachers
Module-1:			
1.	EXP 404	Agricultural Marketing Management	Dr. M. Umamaheswari

Sl.N o.	Course No.	Course Title	Course Teachers
2.	EXP 405	Behavioural Skills	Dr. S. Anandkumar
3.	EXP 410	Commercial Broiler and Layer Production	Dr. S. George Paradis
4.	EXP 418	Commercial Sericulture	Dr. S. Palanivel / Dr. S. Amsagowri Dr. K. Devarassou
Module-2:			
1.	EXP 407	Integrated Farming System	Dr. R. Poonguzhalan Dr. S. Ramadass / Dr. M. Pavithra
2.	EXP 413	Commercial Seed Production	Dr. P. Pandian Dr. T. Ramanadane
3.	EXP 416	Farm Advisory on Soil Health, Water Quality and Plant Nutrient	Dr. R. Sankar Dr. R. Rajakumar
4.	EXP 425	Commercial Nursery Technology	Dr. J. Sherly Dr. E. Venkadeswaran
Module-3:			
1.	EXP 411	Plant Tissue Culture	Dr. V. Krishnan
2.	EXP 421	IDM for Crop Diseases	Dr. Shamarao Jahagirdar Dr. C. Jeyalakshmi
3.	EXP 422	Mushroom Cultivation	Dr. C. Jeyalakshmi
4.	EXP 424	Bio-inoculants Production Technology	Dr. S. Sundaravarathan

3.2 B.Sc. (Hons) Horticulture degree programme (2020-2021)

I Semester:

Sl. No.	Course No.	Course Title	Cr.Hr.	Course Teacher	Course Associate
1.	AEC 111	Economics and Marketing	2+1	Dr. T. Sivasakthidevi	---

Sl. No.	Course No.	Course Title	Cr.Hr.	Course Teacher	Course Associate
2.	AGM 111	Introductory Microbiology	1+1	Dr. S. Sundaravarathan	Dr. S. Muthukumarasamy
3.	CRP 111	Introductory Crop Physiology	1+1	Dr. S. Nadaradjan	
4.	ENG 101	Comprehension and Communication Skills in English	0+1	Ms. Noyala Sebastin	---
5.	FOR 111	Introductory Agroforestry	1+1	Dr. J. Sherly	Dr. M. Manikandan
6.	GPB 101	Fundamentals of Genetics	2+1	Dr. V. Krishnan	Dr. V. Krishnan
7.	HOR 101	Fundamentals of Horticulture	2+1	Dr. V. Sundaram	Dr. V. Deepika
8.	SAC 101	Fundamentals of Soil Science	2+1	Dr. K. Coumaravel	Dr. L. Aruna
9.	MAT 101	Elementary Mathematics	0+1	Dr. C. Vidhya	---
10	NSS 101 / NCC 101	National Service Scheme / National Cadet Corps	0+1	Dr. S. Jayasivarajan – NSS Dr. J. Sherly - NCC	---
11.	PED 101	Physical Education & Yoga Practices	0+1	Dr. S. Jayasivarajan	---
Total			11+11=22		

II Semester

Sl. No.	Course No.	Course Title	Cr. Hr.	Course Teacher	Course Associate
1.	AEN 101	Fundamentals of Entomology	2+1	Dr. V. Shanmuga Priya	Dr. S. Palanivel
2.	AEX 111	Fundamentals of Extension Education	1+1	Dr. A. Shaik Alauddin	-

Sl. No.	Course No.	Course Title	Cr. Hr.	Course Teacher	Course Associate
3.	AGR 111	Weed Management in Horticultural Crops	1+1	Dr. P. Saravanane	Dr. C. Susheela
4.	BIC 101	Fundamental of Biochemistry	1+1	Dr.U. Bagavathi Ammal	-
5.	CRP 112	Growth and Development of Horticultural crops	1+1	Dr. S. Nadaradjan	-
6.	FSC 101	Orchard and Estate Management	1+1	Dr. E. Venkadeswaran	-
7.	FSC 102	Tropical and Sub tropical Fruits	2+1	Dr. A. Shanthi	-
8.	HOR 102	Plant Propagation and Nursery Management	1+1	Dr .M. Manikandan	-
9.	PAT 111	Fundamentals of Plant Pathology	2+1	Dr. C. Rettinassababady	Dr. C. Jayalakshmi Ms. D. Shanmuga Priya
10.	VSC 101	Tropical and Sub tropical Vegetables	2+1	Dr. J. Sherly	-
11.	NSS 101 / NCC 101	National Social Service / National Cadet Corps	0+1	Dr. S. Jayasivarajan – NSS Dr. J. Sherly – NCC & NSS	-
12.	PED 101	Physical Education & Yoga Practices	0+1	Dr. S. Jayasivarajan	-
Total			14+12=26		

III Semester:

Sl. No.	Course No.	Course Title	Cr. Hr.	Course Teacher	Course Associate
1.	AEG 211	Farm Power and Machinery	1+1	Dr. S. Sivakumar	---

Sl. No.	Course No.	Course Title	Cr. Hr.	Course Teacher	Course Associate
2.	AEN 211	Apiculture, Sericulture and Lac Culture	1+1	Dr. S. Palanivel	Dr. K. Devarassou Dr. V. Shanmuga Priya
3.	AGR 211	Agro-meteorology and Climate Change	1+1	Dr. AL. Narayanan Dr. S. Nadaradjan	Dr. S. Nadaradjan
4.	COM 211	Computer Applications in Horticulture	0+1	Dr. S. Saravanan	---
5.	FLA 201	Commercial Floriculture	2+1	Dr. A. Shanthi	---
6.	FSC 201	Temperate Fruit Crops	1+1	Dr. A. Shanthi	---
7.	GPB 201	Fundamentals of Plant Breeding	2+1	Ms. V. Vishnu Priya Ms. S. Pavithra	Ms. S. Pavithra
8.	PAT 211	Diseases of Fruit, Plantation, Medicinal and Aromatic Crops & Their Management	2+1	Dr. C. Jeyalakshmi	Ms. D. Shanmuga Priya Dr. C. Rettinassababady
9.	PHT 201	Fundamentals of Food Technology	1+1	Dr. Saranya, Asst.Prof. Avvaiyar Govt. Arts. College	---
10.	STA 201	Statistical Methods	1+1	Dr. G. Poonguzhali	---
11	VSC 201	Temperate Vegetable Crops	1+1	Dr. J. Sherly	---
12.	NSS 101 / NCC 101	National Social Service / National Cadet Corps	0+1	Dr. S. Jayasivarajan NSS Dr. J. Sherly – NCC & NSS	-
13.	PED 101	Physical Education & Yoga Practices	0+1	Dr. S. Jayasivarajan	-
Total			13+13=26		

IV Semester:

Sl.No.	Course No.	Title	Credit hours	Course Teachers	Course Associates
1.	FLG 202	Ornamental Horticulture	2+1	Dr. A. Shanthi	---
2.	FSC 202	Breeding of Fruit and Plantation Crops	2+1	Dr. V. Kanthaswamy	Dr. M.S. Marichamy
3.	FSN 211	Fundamentals of Food Technology	1+1	Mr. R. Latha, KVK	---
4.	AEN 211	Insect Pest of Fruits, Plantation, Medicinal and Aromatic Crops	2+1	Mr.K.Devarassou	Dr.V.Shanmugapriya Dr.S.Palanivel
5.	AGR 212	Principles of Agro-Climatology and Water Management	1+1	Dr. A.L. Narayanan Dr. R. Mohan	----
6.	STA 201	Applied Statistics	1+1	Ms. G. Poonkuzhali	
7.	ANM 211	Nematode Management in Horticultural Crops	1+1	Dr. V. Ramesh	---
8.	PAT 211	Mushroom Culture	0+1	Dr. C. Jeyalakshmi Ms. D. ShanmugaPriya	---
9.	SST 211	Seed Production of Vegetable, Tuber and Spice Crops	2+1	Dr. T. Ramanadane	Dr. P. Pandian
10.	NSS/NCC101	National Service Scheme/ National Cadet Corps	0+1	Dr.S.Jayasivarajan Dr.J.Sherly	--
11.	PED101	Physical Education	0+1	Dr.S.Jayasivarajan	--
Total: 12+11=23					

V Semester:

Sl.No.	Course No.	Title	Credit hours	Course Teachers	Course Associates
1.	HOR 301	Growth and Development of Horticultural Crops	1+1	Dr. V. Sundaram	---
2.	FLG 301	Principles of Landscape Gardening	0+1	Dr. M. Manikandan	---
3.	SPC 301	Production Technology of Medicinal and Aromatic Crops	2+1	Dr. M.S. Marichamy	---
4.	VSC 301	Breeding of Vegetable, Tuber and Spice Crops	2+1	Dr. V. Kanthaswamy	---
5.	VSC 302	Crop Production in Vegetable Crops	0+1	Dr. M.S. Marichamy	---
6.	AEN 311	Apiculture	0+1	Dr. S. Palanivel	Dr. K. Devarassou
7.	AGR 311	Introduction to Major Field Crops	1+1	Dr. V. Sridevi	--
8.	GPB 311	Principles of Biotechnology	1+1	Ms. S. Pavithra	Ms. V. Vishnu Priya Ms. S. Pavithra
9.	PAT 311	Diseases of Vegetables, Ornamentals and Spice Crops	2+1	Dr. C. Jeyalakshmi	Ms. D. Shanmuga Priya Dr. C. Rettinassababady
10.	SAC 311	Soil Fertility and Nutrient Management	1+1	Dr. K. Omar Hattab	Dr. K. Coumaravel
11.	PJN 301	Short Tour	0+1		--
Total: 10+11=21					

VI Semester:

Sl.No	Course No.	Course Title	Credit hours	Course Teachers	Course Associates
1.	HOR 302	Post-Harvest Management of Horticultural Crops	1+1	Dr. V. Sundaram	---
2.	FLG 302	Breeding and Seed Production of Ornamental Plants	2+1	Dr. P. Pandian Dr. V. Kanthaswamy	Dr. T. Ramanadane Dr. M. Manikandan
3.	FSN 311	Processing of Horticultural Crops	1+1	Mrs.M.Saranya (ACW,kkl)	---
4.	AEC 311	Horti – Business Management	2+1	Dr. T. Sivasakthi Devi	---
5.	AEN 312	Insect Pests of Vegetables, Ornamental and Spice Crops	2+1	Dr. V. ShanmugaPriya	Dr.S.Palanivel Mr.K.Devarassou
6.	AGR 312	Organic Farming in Horticultural Crops	1+1	Dr. R. Mohan Dr. S. Mala	---
7.	ENS 301	Environmental Science	1+1	Dr. S. Sundaravarathan Dr. R. Sankar	Dr. S. Muthukumarasamy
8.	PAT 312	Diseases of Fruit, Plantation, Medicinal and Aromatic Crops	2+1	Dr. C. Jeyalakshmi	Dr. C. Rettinassababady Ms. D. Shanmugapriya
9.	AEX 302	Entrepreneurship Development	1+1	Dr. S. Anandkumar	---
10.	PJN 302	Soft Skills for Employability	0+1	Ms. S. NoyalaSebastin	---
Total: 13+10=23					

VII Semester:

Sl. No.	Course No.	Course Title and Credit hours	Course Teachers	Course Associates
1.	HEL 401	Nursery Production and Management (0+15) – 14 weeks	Dr. J. Sherly	Dr. E. Venkadeswaran – A batch
			Dr. M. Manikandan	Dr. V. Sundaram – B batch
2.	PJN 401	All India Tour (0+2)	Dr. C. Vidhya	
3.	AEX 411	Rural Horticultural Work Experience Programme (RHWEP) – Placement in Villages - 3 Weeks (0+5)	Dr. S. Parthasarathi	
Total: 0+22=22				

VIII Semester:

Sl. No.	Course No.	Course Title and Credit hours	Course Teachers	Course Associates
EXPERIENTIAL LEARNING – II (14 weeks)				
2.	HEL 402	Floriculture and Landscape Gardening (0+15)	Dr. M. Manikandan	Dr. Deepika
		Batch A - ----17UHR001 - 17UHR021	Dr. P. Rajasekar	
		Batch B - - ----17UHR022 - 17UHR039		
3.	HOR 411	Rural Horticultural Work Experience Programme (RHWEP) – Placement in Industries -3 Weeks (0+5)	Dr. M. S. Marichamy	Dr. J. Sherly
Total: 0+20=20				

3.3M.Sc.(Ag.)/(Hort.) degree programme (2020-21 batch)**M.Sc.(Ag.) - Agricultural Economics**

Code	Course Title	Credits
Major Courses (20 Credits)		
AEC 501	Micro Economic Theory and Applications	2+1
AEC 502	Macro Economics and Policy	2+0
AEC 503	Evolution of Economic Thought	1+0
AEC 504	Agricultural Production Economics	1+1
AEC 505	Agricultural Marketing and Price Analysis	2+1
AEC 506	Research Methodology for Social Sciences	1+1
AEC 507	Econometrics	2+1
AEC 508	Agricultural Finance and Project Management	1+1
AEC 509	Agricultural Development Policy Analysis	2+0
Minor Courses (9 Credits)		
AEC 510	International Economics	1+1
AEC 511	Institutional Economics	1+0
AEC 512	Natural Resource and Environmental Economics	1+1
AEC 513	Rural Marketing	2+0
AEC 514	Commodity Futures Trading	2+0
COM 501	Computer Applications for Agricultural Economics	0+1
MAT 502	Optimization Techniques in Agriculture	1+1
Supporting Courses (5 Credits)		
MAT 501	Mathematics for Agricultural Economics	2+1
STA 501	Statistical Methods	1+1
Seminar and Research (21 Credits)		
AEC 591	Seminar	0+1
AEC 599	Research	0+20

M.Sc.(Ag.) - Agricultural Entomology:

Code	Course Title	Credits
Major Courses (20 Credits)		
ENT 501	Insect Morphology	1+1
ENT 502	Insect Anatomy, Physiology and Nutrition	2+1
ENT 503	Principles of Taxonomy	2+0
ENT 504	Classification of insects	2+1
ENT 505	Insects Ecology	1+1
ENT506	Insect Pathology	1+1
ENT 507	Biological control of crop pests and weeds	1+1
ENT 508	Toxicology of insecticides	2+1
ENT 509	Plant resistance to insects	1+1
ENT 510	Principles of integrated pest management	1+1
ENT 511	Pests of field crops	1+1
ENT 512	Pests of Horticultural and Plantation crops	1+1
ENT 513	Storage Entomology	1+1
ENT 514	Insect vectors of plant viruses and other pathogens	1+1
ENT 515	General Acarology	1+1
ENT 516	Soil Arthropods and their management	1+1
ENT 517	Vertebrate pest management	1+1
ENT 518	Techniques in Plant Protection	0+1
ENT 519	Commercial Entomology	1+1
ENT 520	Plant Quarantine	2+0
Minor courses (9 Credits)		
BIC 510	Plant Biochemistry	2+1
CRP 501	Principles of Plant Physiology	2+1
	One course from any other Department	3

Code	Course Title	Credits
Supporting Courses (5 Credits)		
STA 501	Statistical Methods	1+1
STA 502	Design of Experiments	1+1
STA 503	Data Analysis using Statistical Packages- I	0+1
Seminar and Research (21 Credits)		
ENT 591	Seminar	0+1
ENT 599	Research	0+20

M.Sc. (Ag.) - Agronomy:

Code	Course Title	Credits
Major Courses (20 Credits)		
AGR 501	Modern Concepts in Crop Production	3+0
AGR 502	Principles and Practices of Soil Fertility and Nutrient Management	2+1
AGR 503	Principles and Practices of Weed Management	2+1
AGR 504	Principles and Practices of Water Management	2+1
AGR 505	Agro-meteorology and Crop Weather Forecasting	2+1
AGR 506	Agronomy of Major Cereals and Pulses	2+1
AGR 507	Agronomy of Oilseed, Fibre and Sugar Crops	2+1
AGR 508	Agronomy of Medicinal, Aromatic and Underutilized Crops	2+1
AGR 509	Agronomy of Fodder and Forage Crops	2+1
AGR 510	Agrostology and Agroforestry	2+1
AGR 511	Cropping Systems and Sustainable Agriculture	2+0
AGR 512	Dryland Farming and Watershed Management	2+1
AGR 513	Principles and Practices of Organic Farming	2+1
AGR 514	Research Techniques in Agronomy	0+1
Minor courses (9 Credits)		
BIC 510	Plant Biochemistry	2+1

Code	Course Title	Credits
CRP 501	Principles of Plant Physiology	2+1
	One course from any other Department	3
Supporting Courses (5 Credits)		
STA 501	Statistical Methods	1+1
STA 502	Design of Experiments	1+1
STA 503	Data Analysis using Statistical Packages- I	0+1
Seminar and Research (21 Credits)		
AGR 591	Seminar	0+1
AGR 599	Research	0+20

M.Sc. (Ag.) - Plant Breeding & Genetics:

Code	Course Title	Credits
Major Courses (20 Credits)		
GPB 501	Principles of Genetics	2+1
GPB 502	Principles of Cytogenetics	2+1
GPB 503	Principles of Plant Breeding	2+1
GPB 504	Principles of Quantitative Genetics	1+2
GPB 505	Mutagenesis and Mutation Breeding	1+1
GPB 506	Population Genetics	2+1
GPB 507	Heterosis Breeding	2+1
GPB 508	Cell Biology and Molecular Genetics	2+1
GPB 509	Biotechnology for Crop Improvement	2+1
GPB 510	Breeding for Biotic and Abiotic Stress Resistance	2+1
GPB 511	Breeding Cereals, Forages and Sugarcane	2+1
GPB 512	Breeding Legumes, Oilseeds and Fibre Crops	2+1
GPB 513	Breeding for Quality Traits	2+1
GPB 514	Gene Regulation and Expression	2+0

Code	Course Title	Credits
GPB 515	Maintenance Breeding, Concepts of Variety Release and Seed Production	1+1
GPB 516	Germplasm Collection, Exchange and Quarantine	2+1
GPB 517	Data Base Management, Evaluation and Utilization of PGR	2+1
Minor Courses (9 Credits)		
BIC 510	Plant Biochemistry	2+1
CRP 501	Principles of Plant Physiology	2+1
	One course from any other Department	3
Supporting Courses (5 Credits)		
STA 501	Statistical Methods	1+1
STA 502	Design of Experiments	1+1
STA 503	Data Analysis using Statistical Packages- I	0+1
Seminar and Research (21 Credits)		
GPB 591	Seminar	0+1
GPB 599	Research	0+20

M.Sc.(Ag.) - Soil Science & Agricultural Chemistry:

Code	Course Title	Credits
Major Courses (20 Credits)		
SAC 501	Soil Physics	2+1
SAC 502	Soil Fertility and Fertilizer Use	2+1
SAC 503	Soil Chemistry	2+1
SAC 504	Soil Mineralogy, Genesis, Survey and Classification	2+1
SAC 505	Soil Erosion and Conservation	2+1
SAC 506	Soil Biology and Biochemistry	2+1
SAC 507	Geomorphology and Geochemistry	2+0
SAC 508	Isotopes and Nuclear techniques in Agriculture	2+1
SAC 509	Soil, Water and Air Pollution	2+1

Code	Course Title	Credits
SAC 510	Remote Sensing and GIS techniques for Soil, Water and Crop Studies	2+1
SAC 511	Analytical Techniques and Instrumental Methods in Soil and Plant Analysis	1+1
SAC 512	System Approaches in Soil and Crop Studies	2+1
SAC 513	Management of Problematic Soils and Waters	2+1
SAC 514	Chemistry of Agro Chemicals- Fertilizers and Pesticides	2+1
SAC 515	Land Degradation and Restoration	1+0
SAC 516	Plant Chemistry and Nutrition	2+1
Minor Courses (9 Credits)		
BIC 510	Plant Biochemistry	2+1
CRP 501	Principles of Plant Physiology	2+1
	One course from any other Department	3
Supporting Courses (5 Credits)		
STA 501	Statistical Methods	1+1
STA 502	Design of Experiments	1+1
STA 503	Data Analysis using Statistical Packages- I	0+1
Seminar and Research (21 Credits)		
SAC 591	Seminar	0+1
SAC 599	Research	0+20

M.Sc.(Horti.) - Vegetable Science

Code	Course Title	Credits
Major Courses (20 Credits)		
VSC 501	Production Technology of Cool Season Vegetable Crops	2+1
VSC 502	Production Technology of Warm Season Vegetable Crops	2+1
VSC 503	Breeding of Vegetable Crops	2+1
VSC 504	Growth and Development of Vegetable Crops	2+1

Code	Course Title	Credits
VSC 506	Systematics of Vegetable Crops	1+1
VSC 507	Production Technology of Underexploited Vegetable Crops	1+1
VSC 508	Organic Vegetable Production Technology	1+1
VSC 509	Fundamentals of Processing of Vegetables	1+1
Minor Courses (9 Credits)		
BIC 510	Plant Biochemistry	2+1
CRP 501	Principles of Plant Physiology	2+1
	One course from any other Department	3
Supporting Courses (5 Credits)		
STA 501	Statistical Methods	1+1
STA 502	Design of Experiments	1+1
STA 503	Data Analysis using Statistical Packages- I	0+1
Seminar and Research (21 Credits)		
SAC 591	Seminar	0+1
SAC 599	Research	0+20

Non-Credit Compulsory Courses for all PG disciplines:

PGS 501	Library And Information Services	0+1
PGS 502	Technical Writing and Communication Skills	0+1
PGS 503	Intellectual Property and Its Management In Agriculture (<i>e-Course</i>)	1+0
PGS 504	Basic Concepts In Laboratory Techniques	0+1
PGS 505	Agricultural Research, Research Ethics and Rural Development Programmes (<i>e-Course</i>)	1+0
PGS 506	Disaster Management (<i>e-Course</i>)	1+0

III. RESEARCH ACTIVITIES

III. RESEARCH ACTIVITIES

A. RESEARCH FINDINGS

Sl. No.	Title of the project and Scientist in-charge	Salient findings
I. AGRICULTURAL ECONOMICS AND EXTENSION		
1.	Cathrine D. 18PGA101 Agricultural diversification and its impact on food security in Puducherry district Chairman: Dr.P.Nasurudeen	The study was conducted in Puducherry district. As per Simpson Index 60.8% were diversified. Based on Food Consumption Score, 50.8% were food secured. Logit model implied that diversification index was positively associated with food security. About 60.3% of diversified households were food secured against 36.2% for non-diversified households. Income inequality was 0.48 and 0.53 respectively among diversified and non-diversified farmers. Income inequality was less among farmers with Crop husbandry and / Horticulture + Animal Husbandry. Training and extension services and mechanization to overcome labour scarcity would encourage diversification.
2.	Gokul V. 18PGA102 Impact of Natural Disasters on Farm Economy in Nagapattinam district of Tamil Nadu Chairman: Dr.A.Pouchepparadjou	The study examined the socio-economic impact of 'Gaja' cyclone on farmers in Vedaranyam taluk. Of the total damage to agricultural assets, damage to buildings and farm shed accounted for 71.46%, followed by irrigation systems (13.03%), inputs (9.7%) and storage structures and equipments (5.73%). OLS model implied that environmental degradation reduced farm income while diversification and technology adoption enhanced farm income. As per logit model education, farm size, farming experience, access to credit and extension services positively influenced farmer's adaptation. Average net income per ha reduced from Rs.-80,764/- for mango to Rs.-19,947/- for rice in disaster year over normal year. Farmers should be aided to adopt disaster management strategies and access to credit and inputs to cultivate alternate crops during disaster years is suggested.
3.	Harshavardhini G. 18PGA103 Impact of Non-Farm Sector on income, employment and food security of rural households in Karur district of Tamil Nadu Chairman: Dr.L.Umamaheswari	The study was taken up in in Karur district of Tamil Nadu where non-farm sector (NFS) is predominant. Overall, non-farm employment was highest in manufacturing (34.62%) followed by construction (17.95%) and transportation (14.10%). Multi-nomial logit model indicated that with better education and higher income, more

Sl. No.	Title of the project and Scientist in-charge	Salient findings
I. AGRICULTURAL ECONOMICS AND EXTENSION		
		likelihood the households participated in non-farm self/wage employment. Annual employment was 23.39% higher in NFS (290 mandays/year) against farm households (235 mandays/year). Average earnings in NFS (Rs 567/day) were 66.74% higher than farm sector (Rs 340/day). About 88.46% of the households engaged in non-farm activities were food secured. Extension services to enhance technology adoption and entrepreneurship to retain rural youth in agriculture sector are suggested.
4.	Vamsikrishna S. 18PGA104 Economic analysis of Vulnerability indices in various agro-climatic zones of Andhra Pradesh Chairman: Dr.N.Swaminathan	The study used time-series data for 30 years (1985-2014) to compute Vulnerability Index districtwise in Andhra Pradesh. Anantapur was the most vulnerable in all the three decades; least vulnerable was S.P.S.Nellore in the decade 1994 and E.Godavari during the decades of 2004 and 2014. Demographic, climatic, agricultural and occupational vulnerability were assessed. Vulnerability based adaptation strategies need to be evolved. Primary data was collected from 75 farmers in the highly vulnerable district. The marginal, small and medium farmers accounted for 10.66%, 18.67% and 33.33% respectively. TAI showed that majority are medium level of adopters. Logit model implied that farming experience and education influenced adaptation. Barriers to adaptation were lack of market access, lack of storage facility, lack of information on long term impact of climate change and access to financial assistance.

Sl. No.	Title of the project and Scientist in-charge	Salient findings
II. AGRICULTURAL ENTOMOLOGY		
	A.AICRIP-IIRR Hyderabad: Principal Investigator: Dr.K.Kumar, Professor (Ag.Entomology) Co- Principal Investigator: Dr.M.Kandibane, Associate Professor & Head (Ag.Entomology)	

Sl. No.	Title of the project and Scientist in-charge	Salient findings
1	Leaffolder screening trial (LFST)	Average damage in the trial varied from 4.4. to 56.0 per cent while the lowest damage was observed in the mutant W1263.
2	Insecticide-Botanicals Evaluation Trial (IBET)	It was found that all insecticides module was found to be superior in reducing pest damage compared to other insecticide-botanical modules and was the most effective treatment at both vegetative and reproductive phases.
3	Effect of Planting Dates on Insect Pest Incidence (EPDP)	Incidence of leaf folder was high in early planting compared to normal and late plantings in ADT 46 variety. The damage crossed ETL in early planting at 30 – 80 DAT (23.73 – 50.45%), in normal planting at 40 – 80 DAT (11.66 – 31.89%) and in late planting at 50 – 70 DAT (12.76 – 14.73%). Low incidence of stem borer (< 9% DH), gall midge (< 2%DL), BPH and WBPH (<3/5hills) recorded in all the three plantings.
4	Population dynamics of rice insect pests assessed through light trap catches	SBs, LF, GLH, BPH, WBPH, WLH, and natural enemies were recorded in small numbers at this centre up to 11th SW and sparsely thereafter. Among the natural enemies, ground beetle, coccinellids, and rove beetle were recorded. However, staphylinid predator catches were considerable during the crop season from 1st to 11th SWs and 35th to 48th SWs.
5	Pest survey report	Periodically at fortnightly intervals report on the incidence of pests on different varieties was surveyed in various communes of Karaikal and sent to IIRR,Hyderabad
ICAR-National Seed Project, Seed Technology Research (STR) Programme -NSP (Crops)-,Mau,U.P, Co- Principal Investigator: Dr.K.Kumar,Professor (Ag.Entomology)		
1	Evaluation of pre-harvest spraying of insecticides and botanicals for management of pulse beetle (<i>Callosobruchus</i> sp.)	Observations were recorded for further analysis
2	Survey and evaluation of seed health status of farmers saved paddy seeds with respect to insect infestation	<i>Sitotroga cerealella</i> and <i>Rhyzopertha dominica</i> were the insects predominantly found in all the seed samples.
3	Effects of solarization on bruchids infestation and quality of pulse seeds	Observations were recorded once in three months

Sl. No.	Title of the project and Scientist in-charge	Salient findings
4	Efficacy of commercially available neem products on storage pest management during storage under ambient conditions	Observations were recorded once in three months
5	Studies on the effect of insecticidal seed treatment on seed viability during storage under ambient condition	After three months of treatment, Spinetorum @1ppm was found to be superior and recorded a low seed damage in paddy and blackgram. All the treatments were found to be superior against the mortality of the test insects
	External funded project: Nichino India Pvt.Ltd, Hyderabad Principal Investigator: Dr.M.Kandibane, Associate Professor and Head (Ag.Entomology) Co-Principal Investigator: Dr.K.Kumar, Professor (Ag.Entomology)	
1	Evaluation of NNI 1702 insecticide against the sucking pests of rice	Trials are in progress
	PG students research:	
1	Bioefficacy, phytotoxicity and safety of spinetoram 120SC against the major pests of direct sown rice R.DhivyaBharathy 19PGA201 Chairman: Dr.K.Kumar, Professor	Trials are in progress
2	Screening of traditional rice varieties against the Angoumois grain moth <i>Sitotroga cerealella</i> M.Maheswari 19PGA202 Chairman: Dr.K.Kumar, Professor	Experiments are in progress
3	Bioefficacy of chlorantraniliprole 9.3%+lambda cyhalothrin4.6%ZC against the major pests of direct sown rice -R.Meena19PGA203 Chairman: Dr.K.Kumar, Professor	Trials are in progress
4.	Bioefficacy of botanicals against the major pests of irrigated black gram Student: C.Praveen kumar, 19PGA204 Chairman: Dr.M.Kandibane,	Trials are in progress

Sl. No.	Title of the project and Scientist in-charge	Salient findings
	Associate Professor & Head	
5.	Bioefficacy of newer insecticides against the major pests of ground nut in Ariyalur district. Student: A.Raghavi, 19PGA205 Chairman: Dr.M.Kandibane, Associate Professor & Head	Trials are in progress
6.	Biodiversity of aquatic insects in irrigated rice ecosystem of PAJANCOA AND RI, Karaikal Student: L.Gopianand, 18PGA201 Chairman: Dr.M.Kandibane, Associate Professor & Head	A total of 13 and 17 species of aquatic hemipterans were collected in irrigated rice ecosystem during <i>Kharif</i> 2019 and <i>Rabi</i> 2019 - 2020 respectively. A total of 16 and 18 species of aquatic coleopterans were collected during <i>Kharif</i> 2019 and <i>Rabi</i> 2019-2020 respectively.
7.	Evaluation of botanical extracts against the major pests of rice Student: K.Nishanthini, 18PGA202 Chairman: Dr.M.Kandibane, Associate Professor & Head	Among the botanical treatments, garlic and chilli extract at 5 per cent was found to be effective against rice stem borer (5.69 and 5.48 per cent with a per cent reduction of 45.43 and 49.33 per cent) and leaf folder (6.27 and 6.49 per cent with a per cent reduction of 40.39 and 40.01 per cent).
8	Bioefficacy of newer insecticides against the pests of black gram Student: R.Pungavi, 18PGA203 Chairman: Dr.M.Kandibane, Associate Professor & Head	In the field experiment I and II, for management of pod borer complexit was found that chlorantraniliprole 18.5 SC at 100 ml/ha was found to be superior among the treatments.
9	Biodiversity of spiders in Agri and Horticultural ecosystem S. Raghul18PGA204	In the inventory of spiders in Agricultural and Horticultural ecosystems , a total number of 2,771 individuals with 20 families were recorded and concluded that the spider diversity was more in Horticultural ecosystem compared to the Agricultural ecosystem
10	Biodiversity of ants in Agri and Horticultural ecosystem K. Vaitheeswari18PGA205	In the inventory of ants in Agricultural and Horticultural ecosystems , a total number of 7978 individuals with 7 subfamilies were recorded and concluded that there was a greater diversity of the ants in the Agricultural ecosystem compared to the Horticultural ecosystem

Sl. No.	Title of the project and Scientist in-charge	Salient findings
III. AGRONOMY		
1	<p>Response of small millets to liquid bio fertilisers and their mode of application</p> <p>Enhancing the millet – system productivity with inter crops</p> <p>Assessing the performance and yielding ability of Rice fallows</p> <p>Studies on the role of System of Ragi intensification (SRgI) in mitigating climate change (Karaikal)</p> <p>Dr. AL. Narayanan</p>	<p>The raw data of all the experiments have been sent to Indian Institute of Millet Research, Hyderabad and the reports will be prepared by IIMR and published during the ensuing Annual Review meeting to held during May 2021.</p>
2	<p>GKMS : IMD : Weather based agro advisory for decision making at farm level in the coastal zone of Puducherry</p> <p>Dr. AL. Narayanan</p>	<p>Weather plays an important role in day to day farm management activities. During cropping period, a large loss percentage is due to direct weather effects such as drought, floods, untimely rains, frost, hail, and storms. This scheme provides Biweekly weather forecast every Tuesday and Friday for Karaikal, Puducherry, Nedungadu, Tirunallar, Kotucherry & TR pattinam. At storage period loss is due to parasites, insects, and plant diseases that are also highly influenced by the weather. The analysis of annual forecasted rainfall was found to be correct for both Karaikal and Puducherry. The forecasted values for minimum temperature and morning relative humidity of both Karaikal and Puducherry region were found to be usable. The wind speed of Karaikal was found to be correct and for Puducherry it was usable. The maximum temperature, evening relative humidity and cloud cover of Karaikal were found to be usable. At Puducherry evening relative humidity and maximum temperature forecast was not usable while it was correct for cloud cover. The wind direction for Karaikal was correct and in contrast, for Puducherry it was found to be not usable. These analyses of forecast gives accuracy of the forecast to rely on it and making short-term adjustments in daily agricultural operations which minimize losses resulting from adverse weather conditions and improve yield and quality of agricultural productions. Hence, weather forecast based agromet advisories helps the farmers in preparedness of farm activities and also minimizes</p>

Sl. No.	Title of the project and Scientist in-charge	Salient findings
		the production losses.
3	Ms. Deepa Priya : PG student:Studies on evaluation of seed priming practices in ragi at coastal areas of karaikal	<p>The vigour of the seedling based on seedling length was higher in seeds primed with three per cent panchakavya.Seed priming had increased the germination percentage, root length and nutrient absorption. The flowering was hastened in primed seeds. Seeds primed with three per cent panchakavya had shown the better growth attributes like plant height, LAI, number of tillers and dry matter production and yield attributes such as number of productive tillers per hill, weight of a single ear head, number of grains per ear head etc.</p> <p>Grain yield of ragi was higher in panchakavya priming (1993kg ha⁻¹). Certain priming treatments like pungam leaf extract, ocimum leaf extract and plain water were comparable with panchakavya priming. The lowest grain yield was obtained in control (1256kg ha⁻¹).The economics of seed priming treatments in ragi showed that seeds treated with three per cent panchakavya had produced a higher benefit cost ratio of 2.37 with added returns of Rs. 18,079 ha⁻¹.From the present investigation, it could be concluded that the ragi seeds treated with three per cent panchakavyawas found to be effective for better yield in the Karaikal region.In case of non - availability of panchakavya, ragi seeds can be treated with one per cent pungam leaf extact or one per cent ocimum leaf extract or plain water for better yield.</p>
4	Initial/Advanced Hybrid Trial (IAHT) – Kharif 2020-21 PI: Dr. R. Poonguzhalan	<p>The trial to evaluate 12 sunflower cultures/hybrids was conducted during Kharif 2020-21. The seeds were sown on 02.07.2020 and the crop was harvested from 23.09.2020 to 05.10.2020. The salient findings are:</p> <p>The survival percentage was ranging from 51.2 to 57.2. The mortality of plants was more due to continuously saturated soil moisture condition during the initial and mid growth stages of the crop due to rain during 25th MSW to 37th meteorological standard weeks (09.07.2020 to 11.09.2020).</p> <p>The culture IAHT 1085 was found to be early</p>

Sl. No.	Title of the project and Scientist in-charge	Salient findings
		<p>maturing (82.5 days) and took least number of days (51.25) for 50 per cent flowering. The cultures IAHT 1089 (83.0 days), 1087 and IAHT 1092 (84.0 days) also matured earlier. The cultures IAHT 1086, IAHT 1088 and IAHT 1090 were found to be late maturing in the group (95.0 days) and took the maximum number of days (63.5 days) for 50 per cent flowering.</p> <p>The culture IAHT 1088 recorded the tallest plants (102.2 cm), followed by IAHT 1087 (94.5 cm) and IAHT 1086 (86.9 cm) which were on par with each other. The culture IAHT 1095 recorded the shortest plants (58.1 cm).</p> <p>The head diameter was highest (7.9 cm) in IAHT 1088 followed by IAHT 1087 (6.7 cm) while the head diameter was the least (3.3 cm) in IAHT 1095.</p> <p>The seed yield did not significantly differ among the cultures tested. The seed yield in general was low (37 to 179 kg/ha) due to low survival percentage of the established plants and poor crop growth which in turn are attributed to saturated soil moisture condition prevailed during the initial and mid growth stages of the crop.</p>
5.	<p>Initial/Advanced Hybrid Trial (IAHT) – Late Rabi 2020-21</p> <p>PI: Dr. R. Poonguzhalan</p>	<p>The trial to evaluate 12 sunflower cultures/hybrids was conducted during Late Rabi 2020-21. The sunflower hybrid seeds were sown on 30.01.2021.</p> <p>The trial was vitiated due to very poor germination of the seeds.</p> <p>Only one hybrid (IAHT-20-10) had a good field emergence (91.7 %). The field emergence was nil in five hybrids (IAHT-20-4, IAHT-20-6, IAHT-20-7, IAHT-20-9 and IAHT-20-11) and was less than 10 per cent in four hybrids (IAHT-20-2, IAHT-20-5, IAHT-20-8 and IAHT-20-12).</p>
6.	<p>Ms. Angel. I : PG student:Effect of growth regulators on growth and yield of sesame</p>	<p>A field experiment is being conducted at Pandit Jawaharlal Nehru College of Agriculture and Research Institute (PAJANCOA&RI), Karaikal to study the Effect of growth regulators on growth and yield of sesame. The crop was sown on 05.03.2021 and the experiment is in progress.</p>

Sl. No.	Title of the project and Scientist in-charge	Salient findings
7.	<p>Evaluation of zymo grain rich on growth, physiology and yield of Rice</p> <p>Dr. R. Mohan Dr. A. Shanthi Dr. S. Sundaravarathan Dr. L. Aruna Dr. S. Nadaradjan Ms. K. Jamuna Rani (Agri) - JRF</p>	<p>On completion of the second field trial on rice during Sornavari 2020, it could be summarized that most of the growth parameters like plant height, number of tillers, Leaf Area Index (LAI), and Shoot Dry Matter Production (SDMP) even though were not much influenced by the treatments during the early growth stages of the crop but favoured by the RFD fertilizer treatments at the later growth stages of the crop. On the other hand, the Zymo grain rich treatments remained statistically on par and alike in response to that of the RFD treatments in the later growth stages due to the stable, persistent and constant action of the product in the root rhizosphere region.</p> <p>At the harvest stage, most of the yield parameters individually was not significantly influenced by the nutrient treatments except number of productive tillers. Similarly, the grain yield and straw yield of rice was also not significantly influenced by the nutrient treatments under both SRI and normal method of planting concluding that the Zymo grain rich product application is equally influential to that of the RFD fertilizer nutrients.</p> <p>None of the soil properties viz. pH, EC, Organic Carbon (OC), available N, P and K in the post-harvest soil significantly varied between nutrient treatments, however, the OC remained substantially increased in the paddy straw + Zymo grain rich application twice treatments. It could be well established that the Zymo grain rich and paddy straw addition could re-establish the carbon status of the soil that was mined by intensive cropping and fertilizer application in the past without significant loss in the yield of the crop.</p> <p>From the observations made in the past two seasons, Zymo grain rich appears to be a promising substitute for NPK fertilizer in terms of minimizing or eliminating them. From our studies it could be seen that the stubbles of the previous crop could be incorporated in soil along with this product and the time gap between the two season /crops could get reduced substantially besides rejuvenating the quality of soil. Hence, the Zymo grain rich can be looked into as an alternative for</p>

Sl. No.	Title of the project and Scientist in-charge	Salient findings
		stubble burning instead it could be used to re-establish the depleted carbon status in the intensive farming regions.
8.	Initial Varietal Trial on Forage Maize(IVTM) Dr .S. Mala – Officer In charge of All India Coordinated Research Project on Forage Crops & Utilization (AICRIP-FC & U)	Nineteen entries of Forage Maize were evaluated for their performance in Karaikal region under Initial Varietal Trial. Results obtained revealed that IVTM 7 recorded the highest GFY of 363.24 qha ⁻¹ and IVTM 13 produced the lowest GFY of 122.20 q ha ⁻¹ .
9.	Multiplication of BNH grass Dr. S. Mala – Co-operator of ICAR – Seed Project (Forage crops)	Maintenance of BNH grass fields for sale of stem cuttings and root slips to the farmers of Karaikal region
10.	Evaluation of cowpea genotypes Dr. S. Mala – Principal Investigator (Agronomy)	Eleven entries of cowpea genotypes were sown on 02.02.2021 to evaluate its performance in Karaikal region. Biometric observations are taken. The crop is yet to be harvested.
11.	Externally funded project: <i>Ad hoc project</i> Principal Investigator Dr. C. Susheela Professor (Agronomy) Title of the Project : Seed Production of Green manure crops Duration of the Project : From Feb, 2021 Capacity(Project Leader / PI / Co-PI / Scientist incharge) : PI Funding Agency: ICAR seed project. Seed Science & Technology (Nodal officer Dr.T.Ramanadane) Amount / Funds received (Rs.): Approval was obtained for Rs.1.5 lakhs per year.	Work done Sunhemp and Daincha were raised in the eastern farm of Agronomy in about 1.75 acres for seed production.
12.	Weed management in transplanted finger millet. Dr. P. Saravanane	A study on weed management in finger millet indicated that hand weeding twice (20 & 40 DAP) significantly reduced the weed density, improved weed control efficiency and finger millet yield. However, it was found to be on par with the application of bensulfuron methyl +pretilachlor 660 g/ha when it was integrated with stale seed bed or intercultivation or hand weeding once at 40

Sl. No.	Title of the project and Scientist in-charge	Salient findings
		DAP.
	Weed management practices for different cultivars in dry direct-seeded rice Dr. P. Saravanane	Cultivation of ADT 46 integrated with sequential application of pendimethalin 1.0kg/ha followed by bispyribac-sodium 0.02 kg/ha effectively controlled the weeds and improved the yield of dry direct-seeded rice in coastal deltaic region of Karaikal, Puducherry UT.
13.	Comparative evaluation of different formulations of 2,4- D for brown manuring in rice. Dr. P. Saravanane	A preliminary study to evaluate the efficacy of different formulations of 2, 4-D for brown manuring in rice revealed that 2,4- D ethyl ester and 2,4 - methyl amine at 0.5 kg/ha were found to be more effective for brown manuring in direct seeded rice.
14.	Studies on CEEDRICH for Physiological and Yield parameters in Rice – II Dr. P. Saravanane	The experiment conducted in PAJANCOA & RI farm in season Thalladi 2019 in rice Variety, ADT45, showed the existence of significant difference in yield between CEEDRICH treatment using seed treatment, Nursery application and Root dip method. There is 2.76 % yield increase in Seed treated with CEEDRICH integrated 75% NPK (T₂) compared to 100% NPK alone (T₅). T₃ and T₄ also showed 4.63 % and 9.20 % yield increase respectively than non-treated 100% NPK plots(T₅).
15.	Yield maximization of rice through site specific nutrient management (Collaborative with Soil science) Dr. V. Sridevi	The nutrient management practices had significant influence on the grain yield of rice cv. ADT 46 during <i>rabi</i> season. The highest grain yield of 5.98 t ha ⁻¹ was registered with RDF + FYM (10t/ha) which was 29.2 per cent higher than that of RDF during <i>rabi</i> 2020-21.
16.	Enhancing productivity of organic rice cultivation in permanent plot & system based approach (Collaborative with Soil science) Dr. V. Sridevi	The organic nutrient management practices had significant influence on the grain yield of rice cv. Improved white ponni during <i>rabi</i> season. FYM @ 10 t/ha + VC 2.5 t/ha + spray of liquid manure like Panchgavya, Jeevamrit, Ghanjeevamrit etc recorded the highest grain yield of 3.87 t ha ⁻¹ during <i>rabi</i> 2020-21.
17.	Water management for enhancing water use efficiency in different rice establishment methods Dr. V. Sridevi	The water management and rice establishment methods had significant influence on the grain yield of rice cv. ADT 46 during <i>rabi</i> season. Among the irrigation management practices, the alternate wetting and drying method recorded significantly higher grain yield. Among the rice establishment methods, mechanical transplanting

Sl. No.	Title of the project and Scientist in-charge	Salient findings
		registered higher grain yield.
18.	Long term trial on weed dynamics in mono or double cropped rice system under different establishment methods Dr. V. Sridevi	The crop establishment methods and weed management practices significantly altered the grain yield of rice cv. ADT 46 during <i>rabi</i> season. Among the crop establishment methods, transplanting recorded the highest grain yield followed by puddled direct seeding and unpuddled dry direct seeding. Among the weed management practices, weed free condition throughout the cropping registered the highest grain yield, however it was comparable with hand weeding twice.
19.	Evaluation cum demonstration of traditional rice varieties at Karaikal region Dr. V. Sridevi	The performance of traditional rice varieties differed significantly. The land race Kuzhiyadichan recorded higher grain yield followed by Kattukuthalam during <i>rabi</i> season.
IV. HORTICULTURE		
1.	Studies on the Performance of Bhendi Hybrids [<i>Abelmoschus Esculentus</i> (L.) Moench (PJN/IP/HOR/2020/001) Principal Investigator - Dr. V. Sundaram Professor & Head (Horticulture) Co Principal Investigator Dr. E. Venkadeswaran Contract Teacher (Horticulture)	A total of 12 different hybrids from various Public Sector and Private Companies have been assembled from all over the country and their yield potential was assessed under Karaikal condition. The sowing was taken up on 23.01.2020 under Randomised Block Design with three replications. Among the 12 hybrids evaluated, NOH 1758 outperformed with an yield of 37.29 tonnes ha⁻¹, followed by Arka Nikitha with 30.67 tonnes ha⁻¹ and 30.03 tonnes ha⁻¹. <u>Practical utility / Benefit to the Farmer:</u> Bhendi being one of the most suitable vegetable crops for year round cultivation the identified hybrid(s) could be raised by the farming community of the region for enhanced yield.
2.	Studies on the Performance of Bitter Gourd Hybrids [<i>Momordica charantia</i> L.] (PJN/IP/HOR/2020/002) Principal Investigator - Dr. V. Sundaram Professor & Head (Horticulture) Co Principal Investigator - Dr. E. Venkadeswaran Contract Teacher (Horticulture)	Nine bitter gourd hybrids assembled from private firms were raised for assessing their performance on 04.09.2020. The biometrical observations including yield are being recorded.

Sl. No.	Title of the project and Scientist in-charge	Salient findings
3.	Studies on the Agrinos HYT products on Fruit and Seed yield in Tomato, Okra, Brinjal and Chilli Principal Investigator - Dr. T. Ramanadanae Professor (SST) Co PI – Dr. R. Poonguzhalan Professor (Agronomy) Co Principal Investigator – Dr. V. Sundaram Professor and Head (Horticulture)	The crop is in the field and treatments have been imposed.
4.	Sponge gourd – IET Principal Investigator - Dr. V. Kanthaswamy Professor (Horticulture)	Among the 8 entries tested, 2019/SPGVAR- 4 recorded highest fruit yield of 142.50 q/ha followed by the variety 2019/SPGVAR-5 recorded 126.20 q/ha.
5.	Bottle gourd – AVT – I Principal Investigator - Dr. V. Kanthaswamy Professor (Horticulture)	Among the 8 entries tested, 2018/BOGVAR-3 recorded highest fruit yield of 328.40 q/ha
6.	Sponge gourd – AVT – II Principal Investigator - Dr. V. Kanthaswamy Professor (Horticulture)	Among the 7 entries tested, 2016/SPGVAR- 3 recorded highest fruit yield of 162.40 q/ha
7.	Cucumber – AVT – I Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture)	Among the 6 entries tested, 2018/CUCUVAR - 4 recorded highest fruit yield of 218.40 q/ha
8.	Pumpkin – AVT – I Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture)	Among the 8 entries tested, 2018/PUMVAR-7 recorded highest fruit yield of 186.00 q/ha
9.	Ridge gourd – AVT – II Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture)	Among the 7 entries tested, 2017/RIGVAR-6 recorded highest fruit yield of 206.25 q/ha
10.	Sponge gourd – AVT – II Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture)	Among the 7 entries tested, 2016/SPGVAR- 3 recorded highest fruit yield of 162.40 q/ha
11.	Sponge gourd – Hybrid - IET	Among the 9 entries tested, 2019/SPGHYB-8 recorded highest fruit yield of 243 q/ha followed

Sl. No.	Title of the project and Scientist in-charge	Salient findings
	Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture)	by the hybrid 2019 / SPGHYB – 6 recorded 235.00 q/ha.
12.	Ridge gourd – Hybrid – AVT – I Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture)	Among the 8 entries tested, 2018/RIGHYB-6 recorded highest fruit yield of 285.33 q/ha
13.	Pumpkin – Hybrid – AVT – I Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture)	Among the 7 entries tested, 2018/PUMHYB-2 recorded highest fruit yield of 210.40 q/ha
14.	Exploring potential Yardlong bean (<i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (L.)) type suitable for coastal region of Karaikal. Principal Investigator -Dr. V. Kanthaswamy Professor (Horticulture) CO Principal Investigator - Dr. M. Manikandan Contract Teacher(Horticulture)	Nineteen genotypes were collected from Kerala, UAS, Dharwad & PAJANCOA & RI were raised in the orchard. The observations are being recorded.

PG STUDENTS RESEARCH

Sl. No.	Title of the project and Scientist in-charge	Salient findings
1.	Bio-Diversity of spiders in Agricultural and Horticultural Eco system Member: Dr. V. Sundaram Student: S. Raghul (18PGA204)	The species of spiders available in the Mango and paddy ecosystems of PAJANCOA&RI were identified and their seasonal predominance was also studied.
2.	Evaluation of bitter gourd hybrids (<i>Momordica charantia</i> L.) Chairman: Dr. V. Sundaram Student: G.P.Prabhakaran (19PGA603)	Crop is in the field and the biometric observations are being recorded
3.	Diallel analysis in Okra [<i>Abelmoschus esculentus</i> (L.) Moench] Chairman: Dr. V. Kanthaswamy Student: M.Ayisha Sidhika (17PGA602)	An investigation through diallel analysis in okra [<i>Abelmoschus esculentus</i> (L.) Moench] was carried out using six parents viz., Arka Abhay, Kashi Mohini, Pusa Sawani, Punjab Padmini, Parbhani Kranti and Azad Bhindi 1. Thirty hybrids were developed through full diallel (direct and reciprocal) cross, along with their parents were evaluated for studying genetics and for further exploitation. Among the 30 hybrids, Kashi Mohini x Pusa Sawani, Kashi Mohini x Punjab Padmini, Punjab Padmini x Parbhani Kranti and Arka Abhay x Parbhani Kranti showed the highest values and hence considered as the best hybrid combination. Based on <i>gca</i> effects Arka Abhay, Kashi Mohini, Parbhani Kranti, Arka Abhay considered as the best parents.
4.	Studies on combining ability in tomato (<i>Solanum esculentum</i> L.) Chairman: Dr. V. Kanthaswamy Member: Dr. V. Sundaram Student: V.Ajeeth Kumar (17PGA601)	An investigation was carried out during July to December 2018 to evaluate the breeding value of parental lines using combining ability and to understand the scope of heterosis breeding for developing commercial F ₁ 30 hybrids in tomato. Based on the score value of <i>per se</i> , sca effects and standard heterosis the hybrid L ₆ x T ₁ (EC -315479 x PKM - 1) considered as the best, while based on the score of <i>per se</i> and standard heterosis the following L ₆ x T ₂ (EC - 315479 x Akshaya) and L ₂ x T ₂ (EC – 320565 x Akshaya) could be considered for further use in developing commercial hybrids of tomato.

Sl. No.	Title of the project and Scientist in-charge	Salient findings
5.	Evaluation of winged bean (<i>Psophocarpus tetragonolobus</i> (L) genotypes suitable for the coastal region of Karaikal Chairman: Dr. V. Kanthaswamy Student: S.Sriraman (19PGA604)	Twenty one genotypes / variety collected from NBPGR, Akola, Maharashtra and KAU have been raised under RBD Design with three replications. The plants are to be flowering stage. The observations are being recorded by the student.
6.	Diallel analysis in pumpkin [<i>Cucurbitamoschata</i> Ex. Poir] Chairman: Dr. A. Shanthi Student: M.Harshini (19PAG601)	The crop was raised on 17.02.2021 in the orchard. Thirty hybrids along with six parents were raised. Biometrical observation is being recorded. The plants have started setting fruits.
7.	Evaluation of brinjal (<i>Solanum melongena</i> L.) genotypes in the coastal region of Karaikal Chairman: Dr. A. Shanthi Student: Kannegandla Indu Bharathi (19PAG602)	Twenty five genotypes collected from various places and SAU's have been raised under RBD design with two replications in the orchard on 24.02.2021. The plants are in flowering stage. Observations are being recorded by the student.
8.	Evaluation of lab lab genotypes (<i>Lablab purpureus</i>) for coastal saline region of karaikal. Chairman: Dr. Sherly. J Student: Subashree (19PAG605)	25 No's of Lab lab seeds were collected from both public and private sectors. Seeds were sown on under Randomised Block Design with two replications. Observation on growth parameters were recorded, at yield the students were in Lock Down. Seeds were again collected and raised in the field, regular observations are being recorded.

V. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl. No.	Title of the project and Scientist in-charge	Salient findings
External funded projects		
1	Soil quality and productivity assessment for bridging the yield gap in farmers field (Rabi,	The survey was conducted in twenty-five farmer's field spread across three villages of Karaikal region during rabi (Samba) season, 2020-21. The initial, post-

Sl. No.	Title of the project and Scientist in-charge	Salient findings
	2020-21) - IIRR (AICRIP) Project Dr. L. Aruna Scientist in – charge cum Principal Investigator	harvest soil samples and grain, straw samples were collected and analysed as per the technical programme. Yield ranged from 3.57 t /ha among low yielders to 4.67 t /ha among high yielders. Soil quality index showed variations in the quality and health of the soil across different farmers categories
2	Residue Management in rice-based cropping systems (Kharif and Rabi 2020-21) - IIRR (AICRIP) Project Dr. L. Aruna Scientist in – charge cum Principal Investigator	To study the influence of rice / Wheat residue on crop productivity, soil health, pest dynamics and grain quality in organic rice-based cropping systems the trial was taken up with rice residue alone and in combination with GM/GLM, PUSA decomposer in comparison with RDF. The highest grain yield was obtained under 75% N as residue + 25% RDF treatment (4.61tha^{-1}) when compared to other combinations of crop residues with/without decomposer and 100% RDF.
3.	Screening of rice germplasm for Nitrogen Use Efficiency(Kharif, 2020) - IIRR (AICRIP) Project Dr. L. Aruna Scientist in – charge cum Principal Investigator	To study the Genotypic variation for NUE across different soils ten rice genotypes were selected and studied for their response at different N levels. Among the varieties, CNN 5 recorded mean maximum yield (5.44 t/ha) followed by T 192 (5.27 t/ha) and were superior without external N application. Due to heavy leaf folder infestation, the yield could not be achieved in M_2 and M_3 plots
4.	Yield maximization of rice in different zones. (collaborative trial – Agronomy and Soil Science – Rabi 2020-21) Dr. L. Aruna Scientist in – charge cum Principal Investigator	To maximize the yield of rice in different zones the fertilizer doses varied and compared with Nutrient expert software-based recommendation for their yield parameter with ADT 43 as test crop. Among the treatments T_8 (100% RDF for N, P and 150% for K) registered higher yield of 6.27 tha^{-1} followed by T_2 treatment (RDF + FYM 10 tha^{-1}) by registering 5.97 tha^{-1} . Study also highlights specific responses of crop to higher K level. However, this data set could not establish the superiority of Nutrient Expert and calls for upgradation by including more crop production factors considering the varietal behavior.
5.	Enhancing productivity of Organic Rice cultivation. (collaborative trial – Agronomy and Soil Science – Rabi 2020-21)	To maximize the yield in organic rice through management practices, the organic sources varied and compared for their yield with IW ponni as test crop. Among the treatments FYM @ 10 t/ha + VC

Sl. No.	Title of the project and Scientist in-charge	Salient findings
	Dr. L. Aruna Scientist in – charge cum Principal Investigator	2.5 t/ha + spray of liquid manure (Panchgavya) registered higher yield of 3.87 tha ⁻¹ followed by Bio-inoculated fortified compost @ 10 t/ha + All bio-fertilizers by registering 3.81 tha ⁻¹ treatment highlighting response of rice to low C:N ratio organics.
6.	Evaluation of <i>zymo grain rich</i> on growth, physiology and yield of rice – UAL project. Dr. L. Aruna Project official	<p>The response of rice crop to fertilizers and <i>Zymo grain rich</i> product either alone or in combination grownduring <i>Sornavari</i> 2020 season was summarized here.</p> <p>Most of the growth parameters like plant height, number of tillers, Leaf Area Index (LAI), and Shoot Dry Matter Production (SDMP) even though were not much influenced by the treatments during the early growth stages of the crop but favoured by the RFD fertilizer treatments at the later growth stages of the crop. On the other hand, the <i>Zymo grain rich</i> treatments remained statistically on par and alike in response to that of the RFD treatments in the later growth stages due to the stable, persistent and constant action of the product in the root rhizosphere region.</p> <p>At the harvest stage, most of the yield parameters individually was not significantly influenced by the nutrient treatments except number of productive tillers. Similarly, the grain yield and straw yield of rice was also not significantly influenced by the nutrient treatments under both SRI and normal method of planting concluding that the <i>Zymo grain rich</i> product application is equally influential to that of the RFD fertilizer nutrients.</p> <p>None of the soil properties viz. pH, EC, Organic Carbon (OC), available N, P and K in the post-harvest soil significantly varied between nutrient treatments, however, the OC remained substantially increased in the paddy straw + <i>Zymo grain rich</i> application twice treatments. It could be well established that the <i>Zymo grain rich</i> and paddy straw addition could re-establish the carbon status of the soil that was mined by intensive cropping and fertilizer application in the past without significant loss in the yield of the crop.</p> <p>The third field trial during kharif, 2020 was conducted with rice (var. ADT 46) as the test crop with same set of treatments. The results were also in same lineconcluding that the <i>Zymo grain rich</i> product application is equally influential to that of the RFD</p>

Sl. No.	Title of the project and Scientist in-charge	Salient findings
		fertilizer nutrients.
8.	<p>Validation of fertilizer prescription equation for chilli in bahour soil series of Pondicherry based on STCR.</p> <p>Dr. U. Bagavathi Ammal – Principal Investigator</p> <p>Dr. R. Sankar, Co-Principal Investigator</p> <p>Dr. K. Coumaravel – Co-Principal Investigator</p>	<p>-Using the basic parameters fertilizer prescription equations under NPK and IPNS for desired yield targets for chilli hybrid were developed.</p> <p><u>STCR-NPK alone</u></p> <p>FN = 1.25 T – 0.42 SN</p> <p>FP₂O₅ = 0.84 T – 4.82 SP</p> <p>FK₂O = 0.72 T – 0.29 SK</p> <p><u>STCR-IPNS (NPK + FYM)</u></p> <p>FN=1.25 T – 0.42 SN –0.65 ON</p> <p>FP₂O₅= 0.84T–4.82SP–0.84 OP</p> <p>FK₂O=0.72T–0.29SK–0.77 OK</p> <p>To assess the validity of fertilizer prescription equation the test verification trial on chilli hybrid Ananya was initiated at farmer's field at karikkalampakkam on 26.01.21. Based on the initial soil available nutrient status the fertilizer doses were calculated with and without IPNS. Now the crop is in flowering stage.</p>
9.	<p>Development of fertilizer prescription equation for brinjal in Mannadipet soil series.</p> <p>Dr. U. Bagavathi Ammal – Principal Investigator</p> <p>Dr. R. Sankar, Co-Principal Investigator</p> <p>Dr. K. Coumaravel – Co-Principal Investigator</p>	<p>To develop the fertilizer prescription equation for brinjal crop, the trial was initiated in farmers field at kariamanickam. The exhaust crop Maize hybrid is raised during February, 2020. The P and K fertilizer requirement was calculated based on fixing capacity of soil. The brinjal crop (var.Palur 2) was planted on 25.6.20. The staggered harvest of brinjal fruits started from September, 2020 and completed January, 2021. The analysis of soil and plant samples is in progress.</p>
10.	<p>Development of fertilizer prescription equation for cotton in Thirunallar soil series.</p> <p>Dr. U. Bagavathi Ammal – Principal Investigator</p> <p>Dr. R. Sankar, Co-Principal Investigator</p> <p>Dr. K. Coumaravel – Co-Principal Investigator</p>	<p>To develop the fertilizer prescription equation for cotton crop the trial was initiated in farmer's field at Varichikudy. The exhaust crop Rice var ADT 46 was raised during November, 2019 and harvested on February, 2020. The test crop cotton hybrid was raised on March, 2020 and harvested up to October, 2020.</p>

Sl. No.	Title of the project and Scientist in-charge	Salient findings
PG STUDENTS RESEARCH		
1.	Studies on response of rice to Zn application Student Name: VAISHNAVI, Y Reg. No: 19PGA504 Chairperson: Dr. R. Sankar	PG Student research by Ms. Y. Vaishnavi (19PGA504). The programme involves seven treatments viz., Absolute control (T1), RDF (T2), RDF + 50% of recommended Zn (T3), RDF+ 75% of recommended Zn (T4), RDF+ 100% of recommended Zn (T5), RDF+ 125% of recommended Zn (T6) and RDF+ 75% of recommended Zn (T7). Test crop CR 1009 was sown on 12.8.2020 and transplanted on 14.9.20 after incorporating the treatment. The crop was harvested. Soil and plant sample analysis in progress.
2.	Development of fertilizer prescription equation for brinjal in Mannadipet soil series. Student Name: Pradeepa, M Reg. No: 19PGA502 Chairman: Dr.U. Bagavathi Ammal	To develop the fertilizer prescription equation for brinjal crop, the trial was initiated in farmers field at kariamanickam. The exhaust crop Maize hybrid is raised during February, 2020. The P and K fertilizer requirement was calculated based on fixing capacity of soil. The brinjal crop (var.Palur 2) was planted on 25.6.20. The staggered harvest of brinjal fruits started from September, 2020 and completed January, 2021. The analysis of soil and plant samples is in progress.
3.	Development of fertilizer prescription equation for cotton in Thirunallar soil series. Student Name: Sakthi Priyanka, S Reg. No: 19PGA503 Chairman: Dr.U. Bagavathi Ammal	To develop the fertilizer prescription equation for cotton crop the trial was initiated in farmer's field at Varichikudy. The exhaust crop Rice var ADT 46 was raised during November, 2019 and harvested on February, 2020. The test crop cotton hybrid was raised on March, 2020 and harvested up to October, 2020.
4.	Nitrogen and Potassium interaction study for increasing the rice productivity in Thirunallar soil series of Karaikal region. Student Name: VINISHA V. M Reg. No: 19PGA505 Chairman: Dr. L. Aruna	On-going research

**B. FUND MOBILIZED / RECEIVED FROM EXTERNAL SOURCES/ AGENCIES
DURING 2020-21**

I. AGRICULTURAL ECONOMICS AND EXTENSION

Sl. No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
1	Crop Estimation Survey (CES) under “Support for Statistical Strengthening” (SSS) scheme	Dr. A. Pouchepparadjou Principal Investigator Co-Principal Investigator: Dr.L.Umamaheswari Dr.N.Swaminathan Dr.K.S.Kumaravel Dr.T.Sivasakthi Devi Mr.C.Aroutselvam Dr.S.Parthasarathi Dr.S.Saravanan Dr.C.Vidhya	Directorate of Economics and Statistics, Govt. of Puducherry	39,38,000/-
2	Socio-Economic analysis of Agrarian Crisis in the Coastal belt of Cauvery Delta in Tamil Nadu and Puducherry	Dr. A. Pouchepparadjou Principal Investigator Dr.A.Shaik Alauddin Co-Principal Investigator Dr.S.Parthasarathi Co-Principal Investigator	Indian Council of Social Science Research, New Delhi	10,00,000/-
3	Impact of Social and Digital Media among the farmers of U.T. of Puducherry	Dr.S.Parthasarathi Principal Investigator Dr.A.Shaik Alauddin Co-Principal Investigator Dr.A. Pouchepparadjou Co-Principal Investigator	Indian Council of Social Science Research, New Delhi	10,00,000/-
4	Socio Economic Impact of Farmers Producers Organisations in Union Territory of Puducherry	Dr.K.S.Kumaravel Principal Investigator Dr. A. Pouchepparadjou Co-Principal Investigator Dr.S.Parthasarathi Dr.T.Sivasakthi Devi	Indian Council of Social Science Research, New Delhi	4,00,000/-
5	Impact of farm mechanisation on farmer’s livelihood in Cauvery delta of Tamil Nadu and U.T. of Puducherry	Dr. A. Pouchepparadjou Principal Investigator Mr. C. Aroutselvam Co- Principal Investigator	ICSSR, New Delhi	4,00,000

II. AGRICULTURAL ENTOMOLOGY

Sl. No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
1	Rice Entomology trials	Dr.K.Kumar, Principal Investigator Dr.M.Kandibane Co-Principal Investigator	AICRIP-IIRR, Hyderabad	25,000/-
2	Paddy and Blackgram Entomology trials	Dr.K.Kumar , Co- Principal Investigator	AICRIP-National Seed Project (Crops)-STR Experiments	25,000/-
3	Recommendations given for the farmers field problems	Dr.K.Kumar , Co- Principal Investigator	Agromet-GKMS-IMD	10,000/-
4	Evaluation of NNI 1702 insecticide against the sucking pests of rice	Dr.M.Kandibane Principal Investigator Dr.K.Kumar, Co- Principal Investigator	Nichino India Pvt.Ltd, Hyderabad	4,04,370/-

III. AGRONOMY

Sl. No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
1	All India Co-ordinated Small Millets Improvement Project	Dr. AL. Narayanan	ICAR, IIMR, Hyderabad /Bangalore	2,75,000/-
2	Gramin Krishi Mausam Sewa	Dr. AL. Narayanan	IMD, New Delhi	16,12,411/-
3	Initial/Advanced Hybrid Trial (IAHT)	Dr. R. Poonguzhalan	IIR-ICAR, Hyderabad	40,000/-
4	Addendum Study On Continual Evaluation Of <i>Zymo Grain Rich</i> On Growth, Physiology And Yield Of Rice	Dr. R. Mohan Dr. A. Shanthi Dr. S. Sundaravarathan Dr. L. Aruna Dr. S. Nadaradjan	M/s United Alacrity India Pvt. Ltd., #94 C/4, III Main Road Ambattur	7,55,500/-

Sl. No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
		Ms. K. Jamuna Rani - JRF	Estate Chennai 600 058	
5	All India Coordinated Research Project on Forage Crops & Utilization(AICRIP-FC & U) – Initial / Advanced varietal trials on Forage Maize	Dr.S.Mala Professor(Agronomy) - Principal Investigator	AICRIP-FC & U (ICAR) IGFRI, Jhansi,U.P., India	30,000/-
6	ICAR – Seed Project (Forage crops)	Dr.S.Mala Professor (Agronomy)- Co- operator	ICAR – Seed Project	25,000/-
7	AllIndiaCoordinated Research Project onWeed Management (AICRIP-WM)	Dr. P. Saravanane-Principal Investigator	ICAR- Directorate ofWeed Research, Jabalpur	30,000/-

IV. HORTICULTURE

Sl.No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
1.	Studies on the Performance of Bhendi Hybrids [<i>Abelmoschus Esculentus</i> (L.) Moench	Principal Investigator - Dr. V. Sundaram Professor & Head (Horticulture) Co Principal Investigator Dr. E. Venkadeswaran Contract Teacher (Horticulture)	1. Suttind Seeds Pvt. Ltd., New Delhi 2. VNR Seeds Pvt. Ltd., Raipur, Chhattisgarh 3. Nirmal Seeds Pvt. Ltd., Jalgaon, Maharastra	NIL

Sl.No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
2.	Studies on the Performance of Bitter Gourd Hybrids [<i>Momordica charantia</i> L.)]	Principal Investigator - Dr. V. Sundaram Professor & Head (Horticulture) Co Principal Investigator – Dr. E. Venkadeswaran Contract Teacher (Horticulture)	1. Suttind Seeds Pvt. Ltd., New Delhi 2. Nirmal Seeds Pvt. Ltd., Jalgaon, Maharashtra	NIL
3.	Studies on the Agrinos HYT products on Fruit and Seed yield in Tomato, Okra, Brinjal and Chilli	Principal Investigator - Dr. T. Ramanadanae Professor (SST) Co Principal Investigator – Dr. R. Poonguzhalan Professor (Agronomy) – Dr. V. Sundaram Professor and Head (Horticulture)	M/S. Agrinos India Pvt. Ltd., New Delhi	4,00,000 /-
4.	“Evaluation of zymo grain rich and green grow on growth, physiology and yield of Rice and Vegetables”	Principal Investigator – Dr.R.Mohan Professor (Agronomy) Co – Principal Investigator : Dr. A. Shanthi, Professor (Horticulture)	M/s United Alacrity India Pvt. Ltd., Chennai.	11,93,500/-
5.	ICAR Seed Project- Strengthening of Seed Production in Agricultural and Horticultural Crops	Principal Investigator Dr.T.Ramanadanae Professor (SST)	ICAR	13,50,000/-

Sl.No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
		Co Principal Investigator :Dr.M.S.Marichamy Assistant Professor (Horticulture)		
6	Laying out of Demonstration Plot (LoDP) under Coconut Development Board (CDB) scheme on “Integrated Farming for Productivity Improvements in coconut”	Principal Investigator: Dr.M.S.Marichamy Assistant Professor (Horticulture) CO-Principal Investigator :Dr.V.Sundaram Professor and Head (Horticulture) Dr.M.Manikandan Contract Teacher (Horticulture)	CDB	44,800/-

V. PLANT BREEDING AND GENETICS

Sl. No.	Title of the Project	Scientist in-charge	Funding Agency	Funds / contingencies received (Rs.)
1.	From QTL to Variety: Genomics Assisted Introgression and Field Evaluation of Rice Varieties with genes/ QTLs for Yield under drought, flood and salt stress (2018-2021)	Principal Investigator Dr. S. Thirumeni, Co-Principal Investigator Dr. S.Nadaradjan,	DBT	15,00,000/-
2.	Strengthening of Existing Plant Tissue Culture lab under NHM,	Principle investigator: Dr. V. Krishnan, Co-Principal Investigator: Mrs. D. Umamaheswari,	Ministry of Agriculture and Farmers welfare. Government	20,00,000/-

		Dr. S.Nadaradjan,	of India	
3.	AICRIP - Breeding Trials AICRIP - Hybrid Rice Trials	Principle investigator: Dr. V. Krishnan, Co-Principal Investigator : Mrs. D. Umamaheswari,	IIRR- AICRIP	90,000/-
4.	AICRP – Small Millet Breeding Trials	Principle investigator: Dr. V.Vengadessan	ICAR–IIMR Hyderabad	1, 10,000/-
5	AICRP-National Seed Project- Seed Technology Research	Dr. T. Ramanadane Dr. C. Rettinassababady Dr. K. Kumar	ICAR-Indian Institute of Seed Science, Mau	6,10,000/-
6	ICAR Seed Project-Seed Production in Agricultural Crops	Dr. T. Ramanadane Dr. P. Pandian, Dr. S. Mala, Dr. C. Susheela, Dr. M.S. Marichamy	ICAR-Indian Institute of Seed Science, MAU	28,50,000/-
8	Seed Village Scheme	Dr. T. Ramanadane	Govt. of India	1,08,000/-
9	AICRIP – Plant Physiology trials	Dr. S. Nadaradjan	ICAR – IIRR Hyderabad	10,000/-
10.	Studies on CEEDRICH for Physiological and Yield parameters in Rice - I	Dr. S. Nadaradjan	M/s. Tropical Agrosystem (India) Pvt. Ltd, Chennai	75,000/-
11.	Studies on CEEDRICH for Physiological and Yield parameters in Rice - II	Dr. S. Nadaradjan	M/s. Tropical Agrosystem (India) Pvt. Ltd, Chennai	75,000/-
12.	Evaluation of zymo grainrich and greengrow on growth, physiology and yield of rice and vegetables	Dr. S. Nadaradjan (Co-Principal Investigator)	M/s United Alacrity India Pvt. Ltd., Chennai	-

VI. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl. No.	Title of the Project	Scientist incharge	Funding Agency	Funds / contingencies received during 2020-21 (Rs.)
1.	All India Coordinated Rice Improvement Project	Dr.L.Aruna (Scientist in – charge)	Indian Institute of Rice Research, Hyderabad	17,58,825/-
	Evaluation of <i>zymo grain rich</i> on growth, physiology and yield of rice	Dr. L. Aruna (Project official)	M/s United Alacrity India Pvt. Ltd., Chennai.	7,64,500/-
2.	Development of fertilizer prescription equation for vegetable crops based on STCR.	Principal Investigator Dr.U.Bagavathi Ammal Co-Principal Investigator Dr. R. Sankar, Dr. K. Coumaravel	ICAR- STCR	2,58,000/-

C. FUNDS RECEIVED FOR ORGANIZING TRAINING / WORKSHOP / SEMINAR

I. PLANT BREEDING AND GENETICS

Sl. No.	Title of the Training	Scientist In charge	Duration of training	Source funding of	To whom & No. of trainees
1	Training on Quality seed production in Rice to the Farmers and Seed growers of Karaikal district under Seed Village Scheme	Dr. T. Ramanadane	31.12.2020	SMSP, NMEAT, GOI	Farmers and Seed growers 64 No.
2	Training on Quality seed production in Black gram” to the Farmers and Seed growers of Karaikal district under Seed		21.01.2021	SMSP, NMEAT, GOI	Seed growers 27 No.

Sl. No.	Title of the Training	Scientist In charge	Duration of training	Source of funding	To whom & No. of trainees
	Village Scheme				
3	Seminar on Seed production in Fodder, Forage and Green manure crops : a venture for doubling the farmer's income		26.02.2021	ICAR Seed Project	Seed growers, Farmers and Students 89 No.

D. SPECIAL LECTURES GIVEN BY STAFF

I. PLANT BREEDING AND GENETICS

Sl. No.	Name of the Scientists	Date	Title of the Lecture	Organized by and Venue	No. of beneficiary
1	Dr. P.Pandian	31.12.2020	Quality seed production in paddy	PAJANCOA & RI, Karaikal <i>under Seed Village Scheme</i>	64 No.
2		21.01.2021	Seed treatment techniques in Black gram seeds	PAJANCOA & RI, Karaikal <i>under Seed Village Scheme</i>	27 No.
3		26.02.2021	Seed production in Green manure crops	PAJANCOA & RI, Karaikal under ICAR Seed Project	89 No.
4	Dr.S.Thirumeni, Professor (PBG)	28.08.20	Breeding salt tolerance in Rice: Past and Present.	International Webinar on Coastal Agriculture organized by Annamalai University, Annamalai nagar	200 participants
1	Dr. T. Ramanadane	31.12.2020	Dos and Don'ts in seed production & Identification of off-types and Roguing	PAJANCOA & RI, Karaikal	64 No.
2		21.01.2021	Seed production techniques in Black gram	PAJANCOA & RI, Karaikal	27 No.

3		26.02.2021	Seed production in fodder and forage crops	PAJANCOA & RI, Karaikal	89 No.
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II. HORTICULTURE

Sl.No.	Title of the Training	Scientist In charge	Duration of training (Date)	Source of funding	To whom & No. of trainees
1.	Advancement in Nursery Technology for Vegetable Cultivation under ATMA	Dr.Sherly, J	One day (10.08.2020)	Department of Agriculture and Farmers Welfare, Puducherry	25 Farmers From Kanakachetty - kulam, Puducherry
2.	Cashew Propagation methods		One day (10.08.2020)	Department of Agriculture and Farmers Welfare, Puducherry	30 farmers Poornankuppam, Puducherry
3.	Brinjal Grafting Methods		One day (11.08.2020)	Department of Agriculture and Farmers Welfare, Puducherry	25 farmers Lawspet, Puducherry
4.	Roof Top Garden		One day (17.09.2020)	Department of Agriculture and Farmers Welfare, Puducherry	50 Anganvadi staff and Women farmers from Madhur, Karaikal
5.	Latest techniques to increase productivity in vegetables and cole crops under ATMA		One day (28.10.2020)	Department of Agriculture and Farmers Welfare, Puducherry	50 farmers from T N Palayam Village, Puducherry
6.	Kitchen garden for ensuring nutritional		One day (29.10.2020)	Department of Agriculture and Farmers Welfare,	100 women farmers from Silukaripalayam, Puducherry

Sl.No.	Title of the Training	Scientist In charge	Duration of training (Date)	Source of funding	To whom & No. of trainees
	security at villages under ATMA			Puducherry	
7.	Recent techniques for quality seedling production in vegetable crops		One day (29.10.2020)	Department of Agriculture and Farmers Welfare, Puducherry	50 farmers from Kandamangalam village, Puducherry
8.	Soil Health card recommendations based production of country vegetables and winter vegetables	Dr.Sherly, J	One day (22.01.2021)	Department of Agriculture and Farmers Welfare, Puducherry	75 farmers of Bahour village, Puducherry
9.	Woman in handling of vegetables from field to consumer point under ATMA		One day (30.01.2021)	Department of Agriculture and Farmers Welfare, Puducherry	50 woman farmers & 20 men farmers from Pooranankuppam, Puducherry
10.	Terrace gardening to increases the income of landless women Under ATMA Training	Dr.M.S.Marichamy	One day (09.03.2021)	Department of Agriculture and Farmers Welfare, Puducherry	40 women from Karikalampakkam, Puducherry

III. PLANT PATHOLOGY AND MICROBIOLOGY

Sl.No.	Title of the Training	Scientist In charge	Duration of training (Date)	Source of funding	To whom & No. of trainees
1.	Integrated Disease	Dr. C. Jeyalakshmi	23.12.20	KVK, Madur	40 farmers

Sl.No.	Title of the Training	Scientist In charge	Duration of training (Date)	Source of funding	To whom & No. of trainees
	Management practices in Rice				
2.	IDM strategies for rice crop in heading stage		04.01. 21	Department of Agriculture, Karaikal	30 farmers
3.	Integrated Disease Management practices in Vegetable Crops		22.01.21	KVK, Madur	40 farmers

IV. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl. No.	Name of the Scientists	Date	Title of the Lecture	Organized by and Venue	No. of beneficiary
1	Dr. U. Bagavathi Ammal	13.08.2020	Field day	UU, Sorapet	50 farmers
2	Dr.K.Coumaravel Dr. U. Bagavathi Ammal	21.08.2020	Soil sample collection in field day function to farmers of Puducherry region	Dept. of Agriculture and Farmer's Welfare, Government of Puducherry	50farmers
3	Dr. U. Bagavathi Ammal	5.11.2020	Latest technology in soil health management	SAMETI (State Agrl.management and extension training institute)	Online programme.
4	Dr. U. Bagavathi Ammal	16.12.2020	Integrated nutrient management	Dept.of Agriculture, Thalatheru	50 farmers
5	Dr.K.Coumaravel	16.12.2020	Importance of soil health card on the eve of world soil Day-2020	Dept. of Agriculture and Farmer's welfare, ADA, Karaikal Governme nt of Puducherry	45farmers
6	Dr. R. Sankar	04.01.2021	Farmers interaction meeting. Delivered lecture on Nutrient	O/o ADA, Thalatheru	150 farmers

Sl. No.	Name of the Scientists	Date	Title of the Lecture	Organized by and Venue	No. of beneficiary
			management for flood affected paddy		
7		07.01.2021	Soil Health card recommendation for sustainable agriculture: INM for paddy and other crops	ADA (LUP&QC), Dept of Agri and FW. P.S.Nallur	50 farmers
8		12.01.2021	Soil Health card recommendation for sustainable agriculture: INM for paddy and other crops	ADA (LUP&QC), Dept of Agri and FW. Ramanathapuram	50 farmers
9		20.01.2021	Soil Health card recommendation for sustainable agriculture: INM for paddy, pulses and oilseed crops	ADA (LUP&QC), Dept of Agri and FW. Kirumampakkam	50 farmers
10		21.01.2021	Soil Health card recommendation for sustainable agriculture: INM for paddy pulses and oilseed crops	ADA (LUP&QC), Dept of Agri and FW. Bahour	50 farmers
11	Dr. R. Sankar	02.02.2021	Soil Health card recommendation for sustainable agriculture: INM for paddy and other crops	ADA (LUP&QC), Dept of Agri and FW. Embalam	50 farmers
12		05.02.2021	ATMA – Latest technology to increase the productivity in paddy during Navarai season	Dy.Project Director (ATMA), Dept of Agri and FW. Uzhavar Udhaviyagam, Karikalambakkam	40 farmers
13		05.02.2021	Soil Health card recommendation for sustainable	ADA (LUP&QC), Dept of Agri and FW.	50 farmers

Sl. No.	Name of the Scientists	Date	Title of the Lecture	Organized by and Venue	No. of beneficiary
			agriculture: INM for paddy and other crops	Karaiyamputhur	
14	Dr. U. Bagavathi Ammal	10.02.2021	Soil health card	Dept.of Agriculture, Sathamangalam	50 farmers
15	Dr.K.Coumaravel	17.02.2021	Vermicompost Technology to the various Self Help Group member, Karaikal	Krishi Vigyan Kendra, Madur, Karaikal	38farmers
16	Dr. U. Bagavathi Ammal	18.02.2021	Vermicompost technology	KVK, Madur	50 farmers
17	Dr. R. Sankar	23.02.2021	Importance of Soil health recommendation for paddy crop	ADA, Dept of Agri and FW. Vizhithiyur, Karaikal	50 farmers
18	Dr. L. Aruna	18.03.2021	Farm waste composting	Organised by KVK, Madhur for Self Help Group.	25 women
19		24.03.2021	Recent trends in Composting Techniques.	Organized by ICAR, KVK, Needamangalam for the farmers under NABARD funded CAT programme.	50 farmers.
20	Dr. L. Aruna	25.03.2021	Importance of soil health card and Recommendation for paddy	Organized by Dept. of Agriculture, Karaikal, at melakasakudy village.	50 farmers.

RESEARCH ACTIVITIES



UAL project rice field experiment transplanting (Sornavari, 2020)



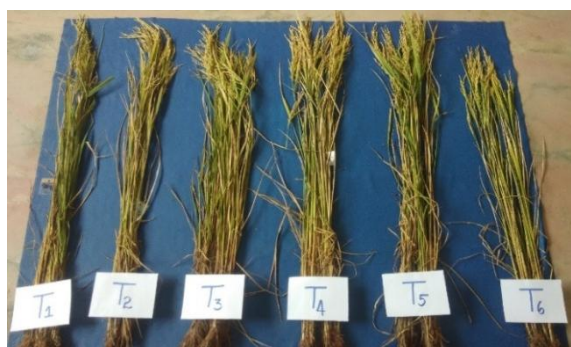
A view of the rice panicle as influenced by different treatments under normal and SRI method of planting



UAL project rice field experiment at the flowering stage of the crop (Sornavari, 2020)



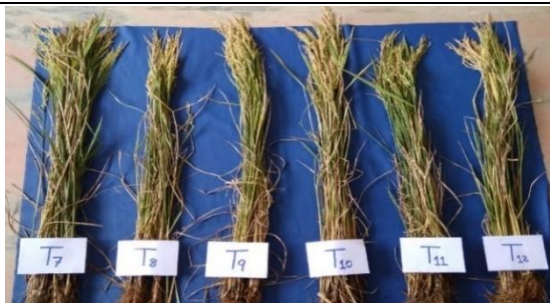
Initial Varietal Trial on Forage Maize



Performance of normal planted rice crop to various treatments (Sornavari, 2020)



Evaluation of cowpea genotypes



Performance of SRI planted rice crop to various treatments (Sornavari, 2020)



Weed management in transplanted finger millet

IIRR-AICRIP PROJECT TRIALS- 2020-21



Soil sampling location in the farmer's field



Straw incorporation in the respective plots



Straw and Pungam incorporation in the respective plots



Field view of Rabi crop



Field view at 30th day after transplanting



Planting of the Germplasm Screening Trial



Response of the Germplasm for Nitrogen Level



Field view of the experimental plot



NOH 1758 (Best performer)



Field view of the experimental plot



Variations in fruit characters



ICAR-All India co-ordinated research project on Vegetable crops, (ICAR-IIVR-Varanasi) Monitoring team visit



Varietal trial in bottle gourd, bitter gourd, snake gourd and pumpkin - (ICAR-IIVR-Varanasi)



Trail on organic production of amaranthus under AICRP



Trail on organic production of amaranthus under AICRP

IV. EXTENSION ACTIVITIES

IV. EXTENSION ACTIVITIES

I. AGRICULTURAL ENTOMOLOGY

Sl. No.	Name of the Scientists	Title of the Talk	Date
1	Dr.M.Kandibane	Live phone in programme, pest management in cotton :7.30 pm to 8.00 pm	18.06.2020
2		Pests management in rice during <i>Rabi</i> -2020 at All India Radio, Karaikal	12.01.2021
3	Dr. K. Kumar	Live phone in programme on Pest management in cotton	14.7.2020

II. HORTICULTURE

Sl.No.	Name of the Scientist	Title of the Talk/publications	Date
1	Dr. V. Sundaram	Aadi Patta Kaikari Sagupadi	16.07.2020
2.	Dr.Sherly, J	Maadithittathil Noi yethirppu thiranai athigapaduthum kaaikari sagupadi (Phone recording)	18.05.2020
3.		Malargal sagupadi thozhil nutpangal (Phone recording)	04.06.2021
4.		Kitchen garden and management (Live in)	03.08.2020
5.	Dr.A.Shanthi	Jasmine cultivation	10.08.2020
6.	Dr. V. Sundaram	Technologies for Increasing Revenue from Fruit Crops	01.12.2020
7.	Dr.Sherly, J	Thai Patta Kaikari Sagupadi Kuripugal (Live in)	09.01.2021
8.		Thai Patta Sagupadi Muraigal (Phone recording)	12.01.2021
9.	Dr.M.S.Marichamy	Nursery technologies for production of quality seedlings for thaipattam vegetable cultivation	20.01.2021
10.	Dr.Sherly, J	Sambangi sagubadi Thozhil Nutpangal (Phone recording)	10.03.2021

III. PLANT BREEDING AND GENETICS

Sl. No.	Name of the Scientists	Title of the Talk	Date
1	Dr.S.Thirumeni, Professor (PBG)	Development of rice varieties suitable for submergence prone areas	15.11.2020
2		Development of salt rice varieties suitable for coastal areas	15.3.2021
3	Mrs.D.Umamaheswari	Importance of Minor millets and its Cultivation	17.09.2020
4	Dr. T. Ramanadane	Vithai Urpathi Thozhilnutpangal (Interview at studio)	

IV. PLANT PATHOLOGY AND MICROBIOLOGY

Sl.No.	Name of the Scientist	Title of the Talk/publications	Date
1	Dr. C. Jeyalakshmi	Tharpothaiya soolnilayil samba nerpayiril noi nirvagam	29.12.2020

V. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl. No.	Name of the Scientists	Title of the Talk	Date
	Dr.U.Bagavathi Ammal	Phone in programme on “Soil health management”	13.06.2020
1	Dr. L. Aruna	Phone in Programme on “Mann valathil angaga urangalin pangu” (Importance of organics on soil health).	22.06.2020
2	Dr. R. Sankar	Phone in programme on “Importance of micronutrients in agriculture”	01.09.2020
3	Dr.K.Coumaravel	Discussion on” Manvalathai Padhukappom”	12.09.2020
4	Dr.U.Bagavathi Ammal	Phone in programme on “World soil day”	05.12.2020
5	Dr. R. Sankar	Discussion on “Importance of summer ploughing”	30.03.2021

FIELD VISIT MADE/FARM ADVICES GIVEN

I. AGRICULTURAL ENTOMOLOGY

Sl. No.	Name of the Scientists	Date	Title of Programme / Field problem	Name of the Farmer	Name of the Village
1	Dr.M.Kandibane	1.12.2020	Rice leaf mite in ADT 46 Leaf folder in BPT 5204	N.Manikandan	No.4, South street Melaponpethi, Nedungadu, KKL
2		29.12.2020	Bud worm in jasmine	M.Uthirapathy 9578607124	No.8, Kolakudy, Nedungadu, KKL
3		25.03.2021	GLH in rice	M.Kannan 7598094776	Thanjavur, Tamil Nadu.

II. HORTICULTURE

Sl.No.	Name of the Scientists	Date	Title of Programme / Field problem	Name of the Farmer	Name of the Village
1	Dr.A.Shanthi	16.06.2020	Teak cultivation	Thiru. Sivapragasam	Mayiladuthurai

TECHNICAL FARM ADVICES GIVEN BY SCIENTISTS THROUGH SOCIAL AND DIGITAL MEDIA

Sl.No	Name of the Scientist	Date	Title of Programme / Field problem	Name of the Farmer/ Farmer group/	Mode of information given (Whatsapp video call/audio call/ facebook etc.)
01	Dr. V. Sundaram	23.4.2020	Measures for improving size and quality of water melon	Mr. Arokia Das Madur	Audio Call

Sl.No	Name of the Scientist	Date	Title of Programme / Field problem	Name of the Farmer/ Farmer group/	Mode of information given (Whatsapp video call/audio call/ facebook etc.)
02		06.5.2020	Management of chilli with special emphasis on flower drop control	Mrs. Manvizhi Neethipathi, Kangalachery (Thiruvavarur)	Audio Call
03	Dr. V. Sundaram	06.5.2020	Management of physiological disorder in coconut	Mr. Senthilkumar Thiruvettakudy	Whatsapp
04		11.05.2020	Coconut Button Shedding management	Thiru. Murthy Melakasakudy	Audio Call
05		22.5.2020	Horticulture Based IFS in 3.0 acres	Ms. Vaishnavi Chennai	Audio Call
06		01.6.2020	Red Palm weevil management in coconut	Sri. Sakthivel Karaikal	Personal discussion at the Institute
07		05.6.2020	Bud Rot in Coconut	Sri. Sakthivel Karaikal	Audio Call
08		15.6.2020	Nutrient Management in Coconut	Sri. J. Senthil Karaikal	Whatsapp
09		16.6.2020	Bud Rot Management in Coconut and Bud Malformation in Cocont	Sri. R. Senthil Varichikudy	Whatsapp
10		23.6.2020	Management of Red Palm Weevil in coconut	Sri. R. Mahalingam Thirunallar	Audio Call
11		26.6.2020	Nutritional Disorder	Seeman Madam (Mutt), Karaikal	Personal visit to the site

Sl.No	Name of the Scientist	Date	Title of Programme / Field problem	Name of the Farmer/ Farmer group/	Mode of information given (Whatsapp video call/audio call/ facebook etc.)
			management in Jack		
12		10.7.2020	Details on starting Bonsai Culture of Plants	Mr.Nazeem Karaikal	Personal discussion at the Institute
13	Dr.V. Sundaram	15.7.2020	Pseudostem Weevil Management in Banana	Dr. George	Whatsapp
14		17.7.2020	Vegetable Cultivation and Seed Procurement	Mr. Kalaimani Karaikal	Nagapattinam
15		18.7.2020	Management of Button Shedding in Coconut	Mr. Kandeepan Keezhaiyur	Audio Call
16		19.7.2020	Betel vine Management in Home Garden	Mr. Balasundaram Kudavasal	Audio Call
17		29.7.2020	Management of mango, guava and coconut	Mr. Joseph Gunalan, Nedungadu	Audio Call
18		1.8.2020	Garden Bean Cultivation	Mr. Kandiban Keezhaiyur (Nagapattinam)	Audio Call
19		14.8.2020	Measures to improve growth of tree saplings performing poorly	Mr. Elango Melmathur (Mayiladuthurai)	Audio Call
20		15.8.2020	Propagation of <i>J. sambac</i> and also	Mrs. Rooparani	Audio call

Sl.No	Name of the Scientist	Date	Title of Programme / Field problem	Name of the Farmer/ Farmer group/	Mode of information given (Whatsapp video call/audio call/ facebook etc.)
	Dr.A.Shanthi		the method of preparing cuttings.	from Pattukottai	
21	Dr.A.Shanthi	20.8.2020	He asked about the fertilizer to be placed for <i>J.sambac</i> (6 month old plants)	Mr. Dinesh Kumar from Ariyalur Dt.	Audio Call
22	Dr.V. Sundaram	31.8.2020	Application of NAA in vegetable crops	Mr. Mahendran Puthakudi	Audio Call
23		25.9.2020	Coconut Planting and Inter cropping in Coconut	Mr. Sathyan Puducherry	Audio Call
24		13.12.2020	Management of Guava and Sapota in Home Garden and Propagation of Fruit Crops	Mrs. Dhanalakshmi Velankanni	Audio Call
25		13.12.2020	Control of flower drop in mango and jack	Mr. Chinnadurai Kattumannarkudi	Whatsapp

III. PLANT BREEDING AND GENETICES

Undertaken 15 Field visits to Seed Production Plots under Participatory seed production programme in the farmers' field. Dr. T. Ramanadane.

Sl. No.	Name of the Scientist	Date	Title of Programme / Field problem	Name of the Farmer	Name of the Village
1	.	07.10.2020	Participatory Seed	Mrs. K. Ponni	Ambagarathur

	Dr. T.Ramanadane		Production in		
2	Nodal Officer	01.12.2020	Paddy;	Mr. Shanmugam	Thenur
3		14.12.2020	Educated the	Mr. Anbazhagan	Surakudy
4		14.12.2020	seed growers	Mrs. K. Ponni	Ambagarathur
5		14.12.2020	about the	K. Sundararaman	Ambagarathur
6		15.12.2020	measures on	Mrs. Shanthi	Puthakudy
7		15.12.2020	maintenance of	Mr. Jayabalan	Ponpethy
8		15.12.2020	genetic purity	Mr. Lebone	Melakasakudy
9		15.12.2020	during seed	Mr. Venugopal	Nudungadu
10		15.12.2020	production in	Mr. Mohanasundaram	Nudungadu
11		15.12.2020	different paddy	Mr. Shanmugam	Thenur
12		15.12.2020	varieties viz.,	Mr. Sathiamoorthy	Thoothuponam oolai
13		23.01.2021	CR1009 Sub1,	Mr. Kaliaperumal	Kottucherry
14		23.01.2021	I.W.Ponni, ADT	Mr. Jayabalan	Ponpethy
15		23.01.2021	(R) 46, BPT 5204	Mr. Venugopal	Nudungadu

IV. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl. No.	Name of the Scientists	Date	Title of Programme / Field problem	Name of the Farmer	Name of the Village
1	Dr.U.Bagavathi Ammal	20.05.2020	Pest in cotton	Mrs.Soundranayaki	Varichikudy
2		21.05.2020	Harvest of chilli	Mrs.K.Indira	Karikkalampakkam
3		20.06.2020	Pest in cotton	Mrs.Soundranayaki	Varichikudy
4		25.06.2020	Layout for brinjal	Mr.Muthukrishnan	Kariamannickam

Sl. No.	Name of the Scientists	Date	Title of Programme / Field problem	Name of the Farmer	Name of the Village
5		05.08.2020	Cotton harvest	Mrs.Soundranayaki	Varichikudy
6	Dr.U.Bagavathi Ammal	13.08.2020	Pest in brinjal	Mr.Muthukrishnan	Kariamanickam
7	Dr. R. Sankar	14.8.2020	Bore well water sample was analysed. The pH and EC was 7.37 and 3.63 dS m ⁻¹ , respectively.. As the sample was poor in status advised to restrict this water for irrigation. Conjoint use of good quality water suggested	N.Kalidoss, 9442420625	24, Mellaveethi, Thirunallar
8	Dr.K.Coumaravel	20.08.2020	Soil profile study and recommendation for MIYAWAKI forest at ONGC premises	K.Ganesh	Thirunallar
9	Dr.U.Bagavathi Ammal	7.09.2020	Pest in brinjal	Mr.Muthukrishnan	Kariamanickam
10		24.9.2020	Pest in brinjal	Mr.Muthukrishnan	Kariamanickam
11		16.11.2020	Brinjal harvest	Mr.Muthukrishnan	Kariamanickam
12		1.12.2020	Brinjal harvest	Mr.Muthukrishnan	Kariamanickam
13		10. 2.2021	Fertilizer	Mrs.K.Indira	Karikkalampakkam

Sl. No.	Name of the Scientists	Date	Title of Programme / Field problem	Name of the Farmer	Name of the Village
			application		
14		04.03.2021	Pest in chilli	Mrs.K.Indira	Karikkalampakkam
15	Dr. R. Sankar	29.03.2021	Bore well water sample was analysed. The pH and EC was 6.79 and 3.79 dS m ⁻¹ , respectively.. As the sample was poor in status advised to restrict this water for irrigation. Conjoint use of good quality water suggested	M.Hemanathan 7502001295	45/A, Netaji Nagar, Surakudy

EXTENSION ACTIVITIES



Visit To Fertilizer Shop



Visit to organic farmer field

Rural Agricultural Work Experience Programme 2021



Thiru. Arjun Sharma I.A.S., Karaikal
District Collector inauguration on exhibition
on 20.01.2021



Students Exhibition on 20.01.2021



Students Exhibition on 20.01.2021



Students Exhibition on 20.01.2021



Farmer students interaction in field

Rural Horticulture Work Experience Programme 2021



Interactive session with RHWEP students on 08.01.2021 at Puducherry



Farmer meeting for the conduct of demonstration on Ragi Cultivation at Agriculture Department Office at Thalatheru, Karaikal on 22nd May, 2020



Farmers Awareness Programme at Thirunallar on 17th September, 2020



Farmers Awareness Programme at Ambagarathur on 17th September, 2020



Farmer interaction meeting on 04th January on Rice fallow crop cultivation at Karaikal



Farmers Meet on Crop Diversification Vegetable Crops on 17.07.2020



Farmer In Panda SozhaNalluron Soil Health Card Recommendations For Sustainable Agriculture on 14.08.2020



Farmers Interaction Meet With PAJANCOA Scientist on 04.1.2021



Demo on Propagation Techniques To French Students



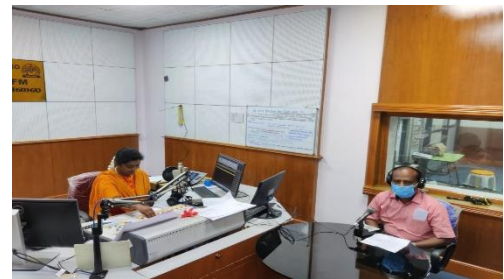
Moringa for Leaf Production



Thornless Bamboo in Horticulture Farm



Interaction with farmers of alternate crop for kuruvaiat All India Radio, Karaikal on 06th June, 2020.



Nivar cyclone updates on 24th and 25th December, 2020.



Field visit at Tennangudy on 01st July 2020



District Collector Visiting Field on
15.08.2020



Field Visit at Keezhavur on 11.05.2020



Field Visit at Keezhavanjore on 23.06.2020



Dean visit to green house on 09.01.2021



Dean visit to seed storage godown on
15.02.2021



Dean visit to Seed Production Plots on 15.02.2021

Dean's Interaction with Horticulture students in Flower Show – 2021 at Pondicherry



Dean Visit



Model Developed by Horticulture Students



Students explaining vertical hydroponic model

V. HUMAN RESOURCE DEVELOPMENT

V. HUMAN RESOURCE DEVELOPMENT ACTIVITIES

I. AGRICULTURAL ECONOMICS AND EXTENSION

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
1.	Dr. A.Pouchepparadjou	Three months (May– June,2020)	Evaluating Social Programmes	Online	Massachusetts Institute of Technology, Cambridge, Massachusetts
2.		19.06.2020	National Level Webinar on “Impact of COVID-19 on Indian’s External Sector”	Online	The American College, Madurai
3.		19.06.2020	International Live Webinar on “Indian Agricultural Development in the New Policy Scenario”	Online	JSA college of Agriculture and Technology
4.		14.07.2020	National Level Webinar on “COVID-19 Pandemic and the stunned Indian External Sector: the Opportunities to secure competitiveness”	Online	Bharathiyar University Arts and Science College, Coimbatore
5.		17.07.2020	National Webinar on “Intellectual Property Rights in Agricultural Sector”	Online	Swami Keshwanand Rajasthan Agricultural University, Bikaner

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
1.	Dr.L.Umamaheswari	16.12.2020 to 18.12.2020	Crop diversification: Determinants and its impact on income and employment of farm households in Nagapattinam district of Tamil Nadu	Online	28th Annual Conference of AERA, 'Future of Indian Agriculture: Challenges and Opportunities' organized by UAS, Bangalore
2		16/05/2020	Webinar titled, 'Horticulture – An emerging sector for employment generation'	Online	Pushkaram College of Agricultural Sciences, Pudukkottai
3		19/06/2020	International Webinar, 'Indian agricultural development in the New Policy Scenario' by Dr.Suresh Babu, IFPRI	Online	JSA College of Agriculture and Technology, Cuddalore
4		20/06/2020	Webinar titled, 'Economics for all' by Dr.R.Balasubramanian	Online	KIA, Coimbatore
5		04/07/2020	Webinar titled, 'Financial Services for inclusive growth' by Dr,V.Puhazhendi	Online	KIA, Coimbatore
6		01/09/2020 to 11/09/2020	Ten days Training on 'Research Methodology for Social Sciences'	Online	Centre for Agrl Market Intelligence, Anand Agricultural University,

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
					Anand
7		17/09/2020 to 18/09/2020	Workshop on 'Market dynamics in Poultry sector: Perspectives and Challenges'	Online	Centre for Agri Market Intelligence, Anand Agricultural University, Anand
8		06/02/2021	International webinar, 'Food systems approach to nutritional security: Role of Agricultural Higher Education System in India by Dr.Suresh Babu, IFPRI	Online	PAJANCOA & RI, Karaikal
1	Dr.T.Sivasakthi Devi	01.06.2020 to 23.06.2020	NIAP Online Webinar series on "Quantitative Methods for Social Sciences	Online	Organized by NIAP, New Delhi
2		12.06.2020	Rainwater Harvesting on Extreme Weather Conditions	Online	Organized by MVN,JS & RVR College of Arts and Science, Malikipuram, AP
3		13.06.2020 to 14.06.2020	Challenges and Opportunities in Agriculture – A Multidisciplinary Approach	Online	Vanavarayar Institute of Agriculture, Pollachi
4		13.06.2020	Farmer Producer Organizations and Transformation of Farming	Online	Kumaraguru Institute of Agriculture, Pollachi
5		13.08.2020	Advances in Rice	Online	Organized by

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
			Research for food Security and Environmental Sustainability		Tamil Nadu Rice Research Institute, Aduthurai
6		18.07.2020	Organic Banana Production and Certification – the status and way Forward	Online	Organized by National Research Centre for Banana, Trichy
7		04.09.2020	Relevance of Modeling in Nutrition and Water Management	Online	Organized by Annamalai University, Chidambaram
8		06.02.2021	International webinar on Food system approach to nutritional security: Role of agricultural higher education system in India	Online	Organized by Dept. of Agricultural Economics & Extension, PAJANCOA& RI, Karaikal
9		24.02.2021	One day training on Public Finance Management System	Offline	PAJANCOA& RI, Karaikal
10		25.02.2021	One day workshop on Social and Digital Media enhancement strategies for farmers of UT of Puducherry	Offline	Organized by Dept. of Agricultural Economics & Extension, PAJANCOA& RI, Karaikal
11		12.03.2021	International webinar on Recent advances in weed science research	Online	Organized by Dept. of Agronomy PAJANCOA& RI, Karaikal

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
1	Mr.C.Aroutselvam	27.07.2020 - 18.07.2020	Certificate course on Intellectual Property Rights	Online	Organised by Science Research Library, India
2		27 th & 28 th July 2020	Intellectual Property Rights	Online	Online National Webinar
3		06.02.2021	Food system approach to nutritional security: Role of Agricultural Higher Education System in India	Online	Online International Webinar
4		24.02.2021	One day training on Public Finance Management System	Online	PAJANCOA & RI
5		25.02.2021	One day workshop on “Social and digital media enhancement strategies for the farmers of UT of Puducherry”	Online	PAJANCOA & RI
1	Dr.C.Vidhya	28.05.2020	Mathematics of COVID-19’,	Online	Division of Mathematics, School of Advanced 2Sciences, Vellore Institute of Technology Chennai
2		03.06.2020	Organising a Literature Review	Online	Division of Mathematics, School of Advanced

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
					Sciences, Vellore Institute of Technology Chennai
3		02.07.2020 to 07.07.2020	ASTUTE EFFLUX Trends in Mathematics	Online	Department of Mathematics and Mechanical Engineering, SNS College of Engineering, Coimbatore
4		08.08.2020 to 09.08.2020	Two days International Faculty Development Program on Fixed Point Theory and its Applications	Online	Department of Mathematics, St. Joseph's College of Engineering, Chennai.
5		12.08.2020	Application of Statistical Models in Agricultural Sciences-An Overview	Online	-
1	Dr.K.S.Kumaravel	01.06.2020 to 05.06.2020	One Week International Webinar on Usage of ICT Tools for Remote Teaching and Evaluation	Online	St. Josephs College, Hyderabad
2		04.01.2021 to 09.01.2021	Time Series Data Analysis	Online	conducted by NAARM, Hyderabad
1	Dr.S.Saravanan	29.04.2020 to 30.04.2020	Teaching And Research Aptitude	Online	Department of BCA Annai College of Arts & Science, Kumbakonam

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
2		01.06.2020 to 05.06.2020	International Webinar & Online FDP on Usage of ICT Tools for Effective Learning & Evaluation	Online	Department of Computer Science, St. Josephs Degree and PG College, Hyderabad
3		08.06.2020	Future of Examinations: Bloom's Taxonomy and Multiple Assessment Tools.	Online	G.T.N. Arts College, Dindigul - 624 005
4		15.06.2020 to 19.06.2020	National Level Online FDP on Techniques in Enhancing Teaching And Learning Skills,	Online	Internal Quality Assurance Cell (IQAC), Idhaya College for Women, Kumbakonam
5		10.07.2020 to 16.07.2020	Hands On Session Using R-Tool, Python And Matlab.	Online	Department of BCA & IQAC, Annai College of Arts & Science, Kumbakonam
6		22.07.2020 to 28.07.2020	International Level Online FDP on Recent Trends in Computer Science,	Online	Department of Computer Science And Computer Applications, Thiruvalluvar University Model Constituent College of Arts and Science, Cuddalore
7		29.07.2020 to	National Level Virtual FDP on	Online	Department of Computer

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Mode	Place / Venue
		02.08.2020	Recent Innovative Technologies,		Science, Thiruvalluvar University Constituent Arts and Science College Kallakurichi
8		17.08.2020 to 30.08.2020	Refresher Course On E-Governance Programs By Using Linux And GIT,	Online	Teaching Learning Centre & Faculty Development Centre, Government First Grade College, Harihar – 577601, In Association With Spoken Tutorial, IIT Bombay

II. AGRICULTURAL ENTOMOLOGY

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
1.	Dr.M.Kandibane	05.06.2020	Attended a National Webinar on Desert locust Management	ICAR, New Delhi.
2.		29.06.2020	National Webinar on Management Strategies on Desert Locust	SKN Agricultural University, Jobner, Jaipur, Rajasthan
3.		05.12.2020	2 nd National Conference on Recent Scientific Advances in Agriculture and Environmental Sciences	Porur, Chennai- 600 125

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
4.	Dr.K.Kumar	29.6.20	Webinar on Management Strategies on Desert Locust	SKN Agrl.University, Jobner, Jaipur
5.		4.7.20	National Webinar on Advances in Disease and Pest Management for Sustainable Banana Industry	AAU, Jorhat, Assam
6.	Dr.K.Kumar	30.6.20	International Webinar on Genomic Data Analysis and Tools	Bharathiar University, Coimbatore
7.	K. Devarassou	19.03.2021	Webinar on “Start-up India Initiative- Support and Schemes for Facilitating Startups”	Cisco webex platform.
8.		06.02.2021	Webinar on “International Webinar on Food System Approach to Nutritional Security:Role of Higher Education in India”	WEBINER through google meet platform.
9	Dr.M.Kandibane	04.03.21-12.03.21	Recent advances in statistical analysis in agriculture	Assam Agrl. University, Jorhat-Virtual mode
10	Dr.K.Kumar	28.9.2020	55 th Annual Rice Group Meeting	Virtual meeting ,IIRR, Hyderabad
11		20.5.20	Enhancng the milk production in Puducherry	Chief Secretariat,Puducherry
12		6.6.20	Online Chemistry Quiz	Tagore Arts College, Puducherry
13		22.10.20	AICRP-NSP Monitoring of South ZoneII meeting	NSP(Crops).Mau,U.P
14		28.9.2020	55 th Annual Rice Group Meeting	Virtual meeting ,IIRR, Hyderabad

III. HORTICULTURE

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
1.	Dr. V. Sundaram Professor and Head	10.05.2020	“Horticulture Technologies for increasing Farmers Income in Arid Zone”	On line Programme coordinated by Progressive Horticulture
2.	Dr. A.Shanthi Professor	16.05.2020	“ Horticulture - An emerging sector for Employment Generation”	TNAU
3.	Dr. V. Sundaram Professor and Head	17.05.2020	“Green Chemistry and Green Engineering - A Unique Solution of Industrial Disasters”	Kings College of Engineering, Punalkulam, Pudukkottai
4.		20.05.2020	Session on “Fruit Wine”	On line Programme brought live on Horticulture Conclave from Progressive Horticulture
5.		20.05.2020	“Raising Farmers Income and Securing Nutritional Security through Horticulture”	On line Programme organised by Agrivision
6.	Dr.M.S.Marichamy Assistant Professor	22.05.2020	International day of Biological Diversity	BioTecNika
7.	Dr. E. Venkadeswaran Contract Teacher	24.05.2020	Commercial Nursery Production of Horticulture Crops	Bhagwati Hi-Tech Farms, Noorpur, Bijnor District, Uttar Pradesh
8.	Dr.M.S.Marichamy Assistant Professor	25.05.2020 to 31.05.2020	Climatic Change Adaptations and Alterations in Farming Practices	Kalasalingam Academy of Research and Education, Krishnankoil

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
9.	Dr. A.Shanthi Professor	28.05.2020	“Integrated Technology for High Quality Banana Production for Domestic and Export Markets”.	Jain Irrigation, Udumalpet
10.	Dr. E. Venkadeswaran Contract Teacher	28.05.2020 to 29.05.2020	6 th Agricultural Graduate Student’s Conference 2020 on Multi-Dimensional Approaches in Transforming Agriculture	School of Post Graduate Studies, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
11.	Dr.M.S.Marichamy Assistant Professor	29.05.2020	Arsenic Mitigation: A Nexus Approach	Bihar Agricultural University, Sabour, Bhagalpur
12.	Dr.M.S.Marichamy Assistant Professor Dr. E.Venkadeswaran	30.05.2020 & 31.05.2020	Self Sufficient Agriculture: A New Approaches	Growing Seed, Dharmanagar, North Tripura
13.	Contract Teacher	01.06.2020 to 05.06.2020	Usage of ICT tool for effective learning and evaluation	Department of Computer Science, St. Joseph’s Degree & PG College, Hyderabad, Telangana
14.		04.06.2020	Climate Change and Sustainability	Department of Civil Engineering, Vidyavardhaka College of Engineering, Mysuru and Ishrae Mysore Chapter, Mysuru, Karnataka
15.	Dr. E. Venkadeswaran Contract Teacher	05.06.2020	Impact of COVID 19 on International Higher Education for Agriculture	Kumaraguru Institute of Agriculture, Nachimuthupuram, Erode, Tamil Nadu

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			Graduates	
16.		06.06.2020 & 07.06.2020	National Webinar on Zero Budget Natural Farming (ZBNF)	Association of Plant Science Researchers (APSR), Plantica Foundation, Dehradun, Uttarakhand and Department of Agriculture, Amritsar Group of Colleges (AGC), Punjab
17.	Dr.M.S.Marichamy Assistant Professor	10.06.2020	Setting a New Normal in Food Processing Sector in Post COVID-19: Opportunities and Challenges”	Maharana Pratap University of Agriculture & Technology, Udaipur
18.	Dr. V. Sundaram Professor and Head Dr. E. Venkadeswaran Contract Teacher	11.06.2020	Processing and Value Addition of Seasonal Fruits	Food Processing Business Incubation Centre (FPBIC), Indian Institute of Food Processing Technology (IIFPT), Thanjavur, Tamil Nadu
19.	Dr.M.S.Marichamy Assistant Professor	13.06.2020	Farmer Producer Organizations and the Transformation of Farming	Kumaraguru Institute of Agriculture, Erode
20.	Dr. E. Venkadeswaran Contract Teacher	13.06.2020	Patent and Intellectual Property Rights in Agricultural Research	Jawaharlal Nehru Krishi Vishwavidyalaya, College of Agriculture, Ganj Basoda, Jabalpur, Madhya Pradesh

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
21.		14.06.2020	Herbal Tea	Bhagwati Hi-Tech Farms, Noorpur, Bijnor District, Uttar Pradesh
22.	Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	16.06.2020 to 20.06.2020	Organic Farming	College of Agriculture, Balaghat, Madhya Pradesh
23.	Dr. A.Shanthi Professor	19.06.2020	Hi – Tech Tissue Culture Pomegranate Cultivation – Part 1	Jain Irrigation, Udumalpet
24.	Dr. E. Venkadeswaran Contract Teacher	19.06.2020 - 20.06.2020	Utility of Kitchen Gardening and Hydroponic Techniques in the Pandemic Time	Department of Seed Technology & Horticulture, Government Holkar (Model Autonomous) Science College, Indore, Madhya Pradesh
25.	Dr.M.S.Marichamy Assistant Professor	24.06.2020	Locust and Man	Mother Terasa College of Agriculture, Pudukottai
26.		26.06.2020	Role of Digital Technologies in Promotion of Community based Plant Health Management	Bihar Agricultural University, Sabour, Bhagalpur
27.	Dr. E. Venkadeswaran Contract Teacher	26.06.2020	Banana Cultivation - Value Added Products and Commercialization	Vivekananda Kendra - Natural Resources Development Project, Vivekanandapuram, Kanyakumari, Tamil Nadu
28.		27.06.2020	Vertical Gardening - A Smart Way of	Nature Club, Rajapalayam Rajus'

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			Agriculture for Smart Cities	College and Wildlife Association of Rajapalayam (WAR), Virudhunagar District, Tamil Nadu
29.		29.06.2020	Recent Developments for Sustainable Agriculture	Faculty of Agricultural Sciences, Bharath Institute of Higher Education and Research (BIHER), Selaiyur, Tambaram, Chennai, Tamil Nadu
30.	Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	03.07.20	Agricultural Biotechnology for Mitigating Climate Change	Bihar Agricultural University, Sabour, Bhagalpur
31.	Dr. E. Venkadeswaran Contract Teacher	03.07.2020	Banana Cultivation - Value Added Products	Vivekananda Kendra - Natural Resources Development Project, Vivekanandapuram, Kanyakumari, Tamil Nadu
32.	Dr. V. Sundaram Professor	04.07.2020	“Pomegranate – An ancient fruit in Modern Horticulture” by Dr. Jyotsans Sharma, Director, NRC on Pomegranate, Solapur, on 04.07.2020 through face book	On line Programme brought live on Horticulture Conclave from Progressive Horticulture
33.	Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	04.07.2020	Advances in Disease and Pest Management for Sustainable Banana Industry	Assam Agricultural University, Jorhat, Assam

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
34.	Dr.M.S.Marichamy Assistant Professor	04.07.2020	Financial services for inclusive growth	Kumaraguru Institute of Agriculture, Erode
35.	Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	06.07.2020	Role of insecticides on past, present and future pest management	Krishna College of Agriculture and Technology, Srirengapuram, Madurai, Tamil Nadu
36.	Dr.M.S.Marichamy Assistant Professor	07.07.2020	Business opportunities in bamboo value chain	Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior
37.	Dr. E. Venkadeswaran Contract Teacher	07.07.2020	Palmyra Tourism	Department of Tourism and Travel Management, Dwaraka Doss Goverdhan Doss Vaishnav College, Arumbakkam, Chennai, Tamil Nadu
38.	Dr.M.S.Marichamy Assistant Professor	08.07.2020	Nano Technology Applications in the Precision Agriculture: “Empahasis on Weed Management”	Krishna College of Agriculture & Technology, Usilampatti, Madurai
39.		08.07.2020	Nano Technology Applications in the Precision Agriculture: Empahasis on Weed Management”	Krishna College of Agriculture & Technology, Usilampatti, Madurai
40.		09.07.2020	Sericulture – As self employment for livelihood security	Krishna College of Agriculture &Technology, Usilampatti, Madurai

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
41.	Dr. E. Venkadeswaran Contract Teacher	10.07.2020	Annona - The fruit of 21 st Century	JSA College of Agriculture and Technology, Cuddalore District, Tamil Nadu
42.	Dr.M.S.Marichamy Assistant Professor	11.07.2020	Microbiomes: No organism is an Island”	Division of Microbiology, Indian Agricultural Research Institute, New Delhi.
43.		16.07.2020	“Challenges and Recent Initiatives on Sustainable Management on Fall Armyworm”	Bihar Agricultural University, Sabour, Bhagalpur
44.	Dr.M.S.Marichamy Assistant Professor	16.07.2020	Soft Skill Development on Applications of Basics of Remote Sensing & GIS in Nutritional Crops	Chandra shekhar Azad University of Agriculture and Technology, Kanpur.
45.	Dr. E. Venkadeswaran Contract Teacher	16.07.2020	Vermicomposting: The Future of Sustainable Agriculture and Organic Waste Management	Health Club and Entrepreneurship Development Cell, Annammal College of Education for Women, Thoothukudi, Tamil Nadu
46.		17.07.2020	Underutilized Minor Fruits Production - Value Additions	Vivekananda Kendra - Natural Resources Development Project, Vivekanandapuram, Kanyakumari, Tamil Nadu

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
47.	Dr.M.S.Marichamy Assistant Professor	17.07.2020	Recent trends in landscape industry	Annamalai University, Chidambaram
48.		18.07.2020	Strategies to combat recent challenges in floriculture industry	Annamalai University, Chidambaram
49.		18.07.2020	Front line Extension in Agriculture	Kumaraguru Institute of Agriculture, Erode
50.		19.07.2020	Landscape tool for smart societies	Annamalai University, Chidambaram
51.	Dr. V. Sundaram Professor and Head	21.07.2020	Hort-Talk on “Innovations In Horticulture for Employment and Prosperity” by Dr. A.K. Singh, DDG (Horticulture)	On line programme on face book by Progressive Horticulture
52.		22.07.2020	Hort – Talk on Vegetable Grafting by Dr. Pradeep Kumar, Principal Scientist, CAZRI, Jodhpur.	On line programme on face book by Progressive Horticulture
53.	Dr.M.S.Marichamy Assistant Professor	22.07.20	“Climate Smart Agriculture” (Climate Resilient Crops for Food and Nutritional Security)	CAAST, MPKVI, Rahuri
54.	Dr. E. Venkadeswaran Contract Teacher	22.07.2020	Agroforestry System in India	Rajapalayam Rajus’ College and Wildlife Association of Rajapalayam (WAR), Tamil Nadu
55.	Dr. V. Sundaram Professor and Head	23.07.2020	Webinar on “Value Addition and Entrepreneurship in Banana”.	NRCB, Tiruchirappalli

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
56.	Dr. E. Venkadeswaran Contract Teacher	23.07.2020	New Normal in Floriculture	Annamalai University, Chidambaram
57.	Dr. V. Sundaram Professor and Head	24.07.2020	Online workshop on “SAP Action Plan 2020-21 in Higher Education Institutions”	Pondicherry University, Puducherry
58.	Dr.M.S.Marichamy Assistant Professor	24.07.2020	Mushrooms – Natures Gift	K.R.College Of Arts And Science, Kovilpatti
59.	Dr. E. Venkadeswaran Contract Teacher	24.07.2020	Micro Greens and Health Benefits	Vivekananda Kendra - Natural Resources Development Project, Vivekanandapuram, Kanyakumari, Tamil Nadu
60.	Dr.M.S.Marichamy Assistant Professor	24.07.2020	Recent Advances in Strawberry Production	Annamalai University
61.	Dr. V. Sundaram Professor and Head	25.07.2020	“Precision Farming in Banana”	ICAR – NRCB, Tiruchirappalli.
62.	Dr.M.S.Marichamy Assistant Professor	25.07.2020	Precision Farming in Horticulture	Pushkaram College of Agriculture Sciences, Pudukottai
63.	Dr.M.S.Marichamy Assistant Professor	27.07.2020 & 28.07.2020	Farmers Producer Organizations and Commodity Markets	Anand Agricultural University, Anand
64.	Dr. V. Sundaram Professor and Head Dr. A.Shanthi Professor	29.07.2020	entitled “Integrated Disease Management in Banana”	ICAR – NRCB, Tiruchirappalli
65.	Dr.M.S.Marichamy Assistant Professor	29.07.2020 &30.07.20 20	Biotechnology for crop improvement	College of Agricultural Biotechnology Madadgaon, Ahmednagar,

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
				Maharashtra
66.	Dr. E. Venkadeswaran Contract Teacher	30.07.2020	Plant Biological Interventions for Climate Smart Agriculture	Bihar Agricultural University, Sabour, Bhagalpur, Bihar
67.	Dr. A.Shanthi Professor Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	31.07.2020	Research Advances in Kiwi Production	Annamalai University,
68.	Dr.M.S.Marichamy Assistant Professor	27.07.2020 to 04.08.2020	Soft Skill	Pioneer Kumaraswamy College, Nagercoil
69.	Dr. A.Shanthi Professor	01.08.2020	‘Health Foods from Fruits and Vegetables	Annamalai University,
70.	Dr. E. Venkadeswaran Contract Teacher	01.08.2020	Tamilnadu’s Water Future: Hot Spots and Bright Spots	Kumaraguru Institute of Agriculture, Nachimuthupuram, Erode, Tamil Nadu
71.		02.08.2020	Hornbills are the farmers of forest in Western Ghats	Nature Club, Rajapalayam Rajus’ College and Wildlife Association of Rajapalayam (WAR), Virudhunagar District, Tamil Nadu
72.		03.08.2020 & 04.08.2020	Engineering Interventions for Plant Health Management - Water Management for Plant Health	National Institute of Plant Health Management, Rajendranagar, Hyderabad

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
73.	Dr. A.Shanthi Professor Dr. E. Venkadeswaran Contract Teacher	04.08.2020	“Neutraceuticals from Flower Crops”	Annamalai University, Chidambaram
74.	Dr. A.Shanthi Professor	04.08.2021	“Integrated Insect Pests and Nematode Management in Banana”	ICAR,NRCB, Trichy
75.	Dr.M.S.Marichamy Assistant Professor	05.08.2020	Fermentation Technology	K.R.College of Arts and Science, Kovilpatti
76.	Dr. E. Venkadeswaran Contract Teacher	05.08.2020	Flower Seed Production - Challenges and Opportunities	Annamalai University, Chidambaram
77.		07.08.2020 &08.08.20 20	Nutrients Acquisition by Plants and Plant based Remedies against Viral Diseases	Internal Quality Assurance Cell (IQAC), Nowgong College, Nagaon, Assam
78.	Dr. A.Shanthi Professor	07.08.2020	“Planting Material in Banana. Present and next generation Technologies	NRCB,Trichy.
79.	Dr. A.Shanthi Professor Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	08.08.2020	Ultra High Density Planting in Fruit Crops	Kumaraguru Institute of Agriculture, Nachimuthupuram, Erode, Tamil Nadu
80.	Dr. V. Sundaram Professor and Head	12.08.2020	Post Harvest Mangement and Value Addition of Horticultural Crops”	On line programme on face book by Progressive

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			by Dr. Devraj, Professor and Head, Center of Excellence on PHT, Navsari	Horticulture
81.		15.08.2020	Hort Talk 33 by A.K. Yadav (Horticulturist – USA) on his research experience in cold hardiness in peach and micro propagation of peach and medicinal plants	On line programme on face book by Progressive Horticulture
82.	Dr. E. Venkadeswaran Contract Teacher	17.08.2020 to 19.08.2020	Advances in Biological Sciences - ABS 2020	Department of Botany & Biotechnology, Bharathiar University, Coimbatore, Tamil Nadu
83.	Dr. A. Shanthi Professor Dr. E. Venkadeswaran Contract Teacher	21.08.2020	Approaches and Strategies for Augmenting Export of Bananas from India	ICAR - National Research Centre for Banana, Tiruchirappalli, Tamil Nadu
84.	Dr. A. Shanthi Professor	21.08.2020	27 th Foundation Day and Kisan Mela through Virtual platform in which Dr. Trilochan Mohapatra, Secretary, DARE & DG, ICAR felicitated NRCB and Guest of Honor was Dr. A.K. Singh DDG (HS), ICAR.	NRCB, Trichy
85.	Dr. A. Shanthi Professor	24.08.2020	Precision Farming Techniques in Straw berry cultivation” through Face Book (5.00 – 6.00pm).	Jain Irrigation, Udumalpet

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
86.	Dr. E. Venkadeswaran Contract Teacher	25.08.2020 to 28.08.2020	Advances in Moringa Farming - a way forward to Trending Entrepreneurship	Horticultural College and Research Institute, Periyakulam, Theni District, Tamil Nadu
87.	Dr. A.Shanthi Professor	28.08.2020	“Protected Cultivation of Vegetable Crops	IIHR, Bengaluru
88.		10.09.2020	Harvest and Post- harvest management in Cardamom	ICRI, Myladumpara
89.	Dr. E. Venkadeswaran Contract Teacher	12.09.2020	Plant Genomics and Phytotherapy	The Biomics
90.	Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	05.10.2020 to 07.10.2020	Moringa - A Super Food - Boon to Mankind	Horticultural College and Research Institute, Periyakulam
91.	Dr.M.S.Marichamy Assistant Professor	16.10.2020 & 17.10.2020	Technical Writing	Centre for Agricultural Market Intelligence, Anand Agricultural University, Anand
92.	Dr. E. Venkadeswaran Contract Teacher	24.10.2020	Genomic Selection in Crop Plants	Plantgenomia
93.	Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	07.11.2020	Role of Soil Microorganism in Sustainable Agriculture	Kumaraguru Institute of Agriculture, Nachimuthupuram, Erode, Tamil Nadu
94.	Dr. E. Venkadeswaran Contract Teacher	27.11.2020	Bio intensive Management of Plant Parasitic Nematodes	National Institute of Plant Health Management, Rajendranagar, Hyderabad

Sl.No.	Name of the Scientist (Designation)	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
95.		04.12.2020	Recent Trends in Plant Biosecurity - International and National Perspectives	National Institute of Plant Health Management, Rajendranagar, Hyderabad
96.		05.12.2020	World Soil Day - Keep Soil Alive, Protect Soil Biodiversity	Kumaraguru Institute of Agriculture, Nachimuthupuram, Erode, Tamil Nadu
97.	Dr.M.S.Marichamy Assistant Professor Dr. E. Venkadeswaran Contract Teacher	06.02.2021	Food system approach to nutritional security: Role of agricultural higher education in India	PAJANCOA & RI
98.	Dr.M.S.Marichamy Assistant Professor Dr.Sherly, J Assistant Professor	25.02.2021	Social and Digital Media Enhancement Strategies for the Farmers of Puducherry and Karaikal	PAJANCOA & RI
99.	Dr.Sherly, J Assistant Professor	01.12.2020 to 13.12.2020	CTO online orientation training (PRCN course)	NCC 1(P) Novel Unit, Lawspet, Puducherry
100.	Dr.M.S.Marichamy Assistant Professor	26.02.2021	Seed production in fodder and green manure crops: a venture for doubling the farmers income	PAJANCOA & RI
101.	Dr.M.S.Marichamy Assistant Professor	12.03.2021	Recent Advances in Weed Science Research	PAJANCOA & RI

IV. PLANT BREEDING AND GENETICS

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
1	Dr.P.Pandian Professor Seed Technology	14-15.05.2020	Joint AGM of AICRP-NSP(Crops) and ICAR Seed project along with Annual Breeder seed review meeting organised by ICAR	video conferencing
2		23.05.2020	“National Seed System and Policy Perspectives” and “Faculty Development Programme on Online teaching learning tools” Organized by IARI, NAHEP-CAAST	National Webinar
3		30.05.2020	Genome Editing and Marker-Assisted Selection for Precision Plant Breeding Organised by Genetics & Plant Breeding, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur – 208002	National Webinar
4		01/06/20 to 05/06/20	Usage of ICT tools for effective learning & evaluation organised by Dept. of Computer Science, St.Joseph Degree & PG College, Hyderabad	International Webinar
5		17.07.2020	National Webinar on Intellectual Property Rights in Agriculture Sector organized by SKRAU, Bikaner	
6	Dr.P.Pandian Professor Seed Technology	09.07.2020	Crop Improvement for Food and Nutritional Security: Challenges and Opportunities Gene technology for crop improvement organized by	National Webinar

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			National Professor & Director, DBT-NECAB, AAU, Jorhat.	
7		10.09.2020	Contemplative Perspectives on Seed: Conservation, Quality Assurance and Supply Systems' Organized by .ICAR-IISS, Mau	National Webinar
8		07.08.2020	"Innovative Approaches in Seed Quality Maintenance for Successful Entrepreneurship" Organized by IARI, NAHEP-CAAST "	National Webinar
9		22.10.2020	ICAR Seed Project –Joint monitoring team 2020-21 for Southern Zone II organised by ICAR	video conferencing
10		07.02.2021	Annual General Body Meeting (AGBM) of Indian Society of Seed Technology	Online meeting
11		24.02.2021	PFMS training organised by PFMS State Directorate ,Old collectorate, Puducherry and PAJANCOA &RI, Karaikal	PAJANCOA &RI, Karaikal
12	Dr. V. Vengadessan	17 - 30 th November 2020	Refresher Course in MOOCs and E-Content Development for University and College Teachers	Pondicherry University
13	Dr. V. Vengadessan	10-31st December 2020	21-days Online Refresher Course on "Recent Advances in Millets	Research" during organized by Society for Millets Research and ICAR-Indian Institute of Millets

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
				Research, Hyderabad
14		30.03.2020	Webinar on “How to Conduct Online Classes for Students”	Atal Incubation Centre-PEC Foundation, Pondicherry Engineering College
15		16 May 2020.	Workshop on Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop"	IIT-Bombay
16		7 to 18 September 2020.	Data Science in agriculture using R	ICAR-IASRI
17		27 th August 2020.	National Webinar on "Abiotic Stress in Agriculture: Geospatial Characterization and Management Options"	ICAR-NIASM
18		10 to 14 th August 2020.	One Week Webinar on Online Educational Resources for Effective Remote Teaching.	Pondicherry University
19		17 July 2020	National Webinar on Intellectual Property Rights in Agriculture Sector	SKRAU, Bikaner
20		21-23 July 2020	International webinar on Nutritious Maize: Technologies, Development and Availability in South Asia	CIMMYT, México
21	Dr. V. Vengadessan	June 13, 2020.	Webinar entitled “How to Accelerate Genetic Gains in Crop Improvement Programmes?”	NAHEP-CAAST

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
22		June 8, 2020	Webinar on “Pandemics and hunger: Mainstreaming millets for addressing food and nutritional security”	University of Hyderabad
23		8 04-2020	Webinar How to Conduct Online Class to Students" followed by an online Examination	Atal Incubation Centre-PEC Foundation, Pondicherry Engineering College
24		24th to 28th August, 2020	Online Faculty Development Program on Biosafety, Bioethics and IPR	Department of Microbiology, Ram Lal Anand College
25		20 - 24th July 2020	International Webinar on Covid-19.	Pondicherry University
26		7 - 11th July 2020	National Webinar on crop improvement for Food & Nutritional Security: Challenges and Opportunities.	Assam Agricultural University
27		13 November, 2020	National webinar on "Importance of e-data book keeping under e-Governance"	UAS, Dharwad under ICAR-NAHEP-IDP
28	Mrs. D. Umamaheswari Assistant Professor (PBG)	24.06. 2020	National Webinar on “Recent Biotechnological Tools for Crop Improvement”	Webinar Acharya N.G. Ranga Agricultural University, Lam, Guntur and IDP.
29	Mrs. D. Umamaheswari	23.09.2020 to 4.10 2020	7 days National level capacity Building programme under TEQIP III E-Shodhyatra, Emerging trends & Technology in scholarly communication	Institute of Chemical Technology ,Mumbai VES College of Arts ,Science and Commerce Mumbai

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
30	Mrs. D. Umamaheswari	06.02.2021	International webinar on food system approach to nutritional security: Role of agricultural higher education system in India	PAJANCOA & RI, Karaikal.
1	Dr. T. Ramanadane Professor Seed Technology	23.05.2020	“National Seed System and Policy Perspectives”. Organized by IARI, NAHEP-CAAST	Webinar
2		10.09.2020	Contemplative Perspectives on Seed: Conservation, Quality Assurance and Supply Systems’ Organized by ICAR-IISS, Mau	Webinar
3		05.10.2020	Recent Advancements in Seed Health Management” organized by ICAR-IISS, Mau	Webinar
4		10.01.2021	Attended a seminar on Organic farming organized by Thiruvalluvar Foundation	Ambagarathur, Karaikal
5		19.01.2021	Maintenance Breeding in Field Crops organized by ICAR-IISS, Mau	Online
6		06.02.2021	Food System Approach to Nutritional Security : Role of Agricultural Higher Education System in India organized by DAEE, PAJANCOA & RI, Karaikal	International Webinar
7		08.02.2021-12.02.2021	Theoretical Training Course on OECD Capacity Building for the OECD Seed Schemes	Indo-German Seed Sector through online
1	Dr. S. Nadaradjan	12/05/2020 to 25/05/2020	Science Communication for Smart Scholars	ICAR- Central Institute of

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
				Fisheries Education, Mumbai
2		06/05/2020	Effective and efficient online teaching in the Age of Corona: A hands on Workshop	IIT- Mumbai
3		20/05/21 & 21/05/21	The Bodhi Tree and safetools for effective online teaching: A Hands on workshop	IIT- Mumbai
4		01/06/20 to 05/06/20	Usage of ICT tools for effective learning & evaluation	Dept. of Computer Science, St.Joseph Degree & PG College, Hyderabad
5		29/06/20 to 03/07/20	Recent physio molecular digital tools in abiotic stress management for crop modeling	Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani
6		08/07/20	Nanotechnology applications in the precision agriculture: emphasis on weed management	Krishna College of Agriculture & Technology, Madurai
7		9/07/20	Sericulture – As Self-employment for livelihood security	Krishna College of Agriculture & Technology, Madurai
8		13/07/20 to 17/07/20	Modern Methodologies in Statistical Data Analysis for Effective Agricultural Research	College of Agriculture, UAS, Raichur, Karnataka
9		16/07/20	The Pandemic: From a Laboratory Perspective Biocontainment Strategies: A Safe Lab is a Safe You	M/s. Eppendorf India Private Limited
10		19/07/20	Tissue Culture banana	Tiruchy

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
11	Dr. S. Nadaradjan	12/08/20	Application of Statistical Models in Agricultural Sciences – An overview	Department of Agricultural Economics, AC&RI, Madurai, TNAU
12		21/08/20	International webinar on OMICS in Crop Improvement	Department of Genetics, Annamalai University
13		06/12/20 & 07/12/20	International Plant Physiology Virtual Conference - Prospects of Plant Physiology for Climate Proofing Agriculture	Sher-e-Kashmir University of Agricultural Sciences & Technology, Jammu & Indian Society for Plant Physiology (ISPP) , IARI, New Delhi
14		04/01/21 to 11/01/21	Statistical data analysis using 'R' software	Department of Agricultural Statistics, Sarat Chandra Sinha College of Agriculture (SCSCA), Assam

V. PLANT PATHOLOGY AND MICROBIOLOGY

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
1	Dr. C. Jeyalakshmi	18 th July 2020	Organic banana production and certification – the status and way forward	ICAR-NRC Banana, Trichy
2		29 th July 2020	Integrated Disease Management in Banana	ICAR-NRC Banana, Trichy

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
3		August 4 th 2020	Integrated Insect Pests and Nematodes Management in Banana	ICAR-NRC Banana, Trichy
4		21 st August 2020	Approaches and strategies for augmenting export of banana	ICAR-NRC Banana, Trichy
5		5 th to 6 th October 2020	National conference on food microbiology	Indian Institute of Food Processing Technology, Thanjavur
6		6-9 th October 2020	Multidisciplinary approaches for plant disease management in achieving sustainability in agriculture	University of Horticultural Science, Bagalkot and College of Horticulture, Bengaluru
7		22 nd October 2020	Coffee leaf rust	CCIR
8		29 th October 2020	Protecting plant health in a challenging world	NIPHM, Hyderabad
9		5 th November 2020	Soil borne plant pathogens – Management with emphasis on biocontrol agents	Dr.Y.S.R. Horticulture University, Andhra Pradesh
10		19 th November 2020	Root diseases and stem canker in coffee and their management	CCIR
11		17 th December 2020	Recent molecular approaches for plant disease diagnosis	S.V. agricultural College, Tirupati
12		27.02.21	Mushroom Cultivation – Urban Farming	Sri Venketashwara University, Tirupati
13		25 th to 27 th March 2021	Plant health and Food security: Challenges and opportunities	ICAR- IARI, New Delhi

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
14	Shamarao Jahagirdar and Basavaraja G.T.	16-20 th January, 2020	Present status and future research needs in identification of sources resistance against major diseases of soybean in India	Paper Presented in 7 th International Conference on Phytopathology in Achieving US Sustainable Development Goals held at IARI, New Delhi.
15	Sham Vinay J. U., Nargund V.B., Jahagirdar S. , Chidanandappa and Patil R.R.		Glasshouse evaluation of chitosan and microbial based iron nanoparticles against bacterial wilt of tomato (<i>Ralstonia solanacearum</i>)	
16	Kavanashree K. and Shamarao Jahagirdar		Identification of resistant source against pod blight disease of soybean caused by <i>Colletotrichum truncatum</i> (Schwein) Andrus and W. D. Moore	
17	Vivekanand B.K. and Shamarao Jahagirdar		Bio efficacy of soybean fungal endophytes against Alternaria and Target leaf spot diseases of soybean under field condition	
18	Brunda K.S., Shamarao Jahagirdar and Kambrekar D.N.		Comparative evaluation of of fungal and bacterial endophytes of soybean (<i>Glycine max</i> (L.) Merrill) against the soil-borne pathogens in northern Karnataka	

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
19	Roopa H. S., Kambrekar, D. N. Mallapur C. P. and Jahagirdar S.	1-2 February, 2020	Management of soybean stem fly, <i>Melanagromyza sojae</i> with new insecticide	National Conference on Climate Resilient Agriculture for Sustainable Production and Nutritional Security, UAS, Dharwad.
20	Roopa H. S., Kambrekar, D. N. Mallapur C. P. and Jahagirdar S.		Identification of stem fly resistance sources in soybean under field condition	
21	Immadi S., Basavaraja G. T, Jahagirdar S. and Suresh P. G.		Genetic analysis of resistance to asian soybean rust in India	
22	Jahagirdar S., Kambrekar D. N. and Kavanashree K.		Management of seedling diseases, shoot fly and stem borer pests of maize	
23	Brunda K. S..Jahagirdar S. and Kambrekar D. N.		Biocontrol potential of soybean fungal endophytes against major soilborne pathogens	
24	Mamatha, Jahagirdar S. , Basavaraja G. T. and Kulkarni S.		Influence of elevation, longitude and latitude against major hemibiotrophic foliar fungal pathogens of soybean	
25	Preeti Teli, S. Jahagirdar and Kambrekar D. N.		Morphological and molecular profiling of <i>Rhizoctonia bataticola</i> isolates causing root rot of soybean in India	

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
26	Kavanashree K, Shamarao Jahagirdar Patil M S and Basavaraj G. T.		Screening of germplasm, advanced breeding lines and released varieties against pod blight disease of soybean caused by <i>Colletotrichum truncatum</i> (Schwein) Andrus and W. D. Moore	
27	Hosmath J. A., Basavaraj G.T., Karlo B., Jahagirdar S And Somanagoud G.		Yield variations in soybean (<i>Glycine max</i> L. Merrill) under normal/delayed onset monsoon conditions from 2006 to 2018 in transitional tract of Dharwad	
28	Heena Kousar, S. K. Deshpande , B. D. Biradar And S. Jahagirdar		Exploitation of recombination variability of baby corn to combat climate change	
29	Dr. Shamarao Jahagirdar	28-1-2021 to 30-1-2021	National Webinar on Innovative Approaches in Plant Health Management” Annual conference and National e-Symposium of ISMPP	University of Horticultural Sciences, Bagalkot, Karnataka
30		8-10 January, 2020	National Conference on Gene Revolution for Profitable Agriculture	UAS, Dharwad

VI. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
1.	Dr. K. Coumaravel	29.06.2020	International e-conference on recent development on sustainable agriculture	Faculty of agricultural sciences, Bharath Institute of Higher

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
				education and research(BIHER), Selaiur, Chennai
2.		16.06.2020 to 20.06.2020	National webinar on organic farming	college of agriculture, Jawaharlal Nehru Krishi Vishwa vidyalaya , Balaghat
3.		06.10.2020	Utilization of organic waste for soil health management and energy production under changing climate scenario	sri Karan Narendra agriculture university, Jobner- Jaipur(Rajasathan)
4.		20.06.2020	International webinar on COVID 19 Reinventing sustainable agriculture to achieve food security	Dayananda sagar university, Bangalore, India
5.		10.06.2020	National webinar on setting a new normal in food processing sector in post COVID-19: Opportunities and challenges	Department of Processing and Food Engineering, College of Technology and Engineering, Maharana Pratap University of agriculture and Technology, Udaipur.
6.		24.07.2020	Role of IFS in doubling the farmer's income for profitability and livelihood security	Shri Vaishnav Institute of agriculture, Shri Vaishnav Vidyapeeth, Indore
7.		04.06.2020 to 08.06.2020	Training on Application of remote sensing and GIS in digital agriculture	Center for advanced agricultural Science and Technology, Vasantao Naik marathwada Krishi Vidyapeeth (VNMKV), Parbhani(MS)
8.		01.08.2020 to 03.08.2020	Training on GIS hand –on training	I.C.S. college of Arts, Commerce and Science, Khed,

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
				Ratnagiri (M.S)
9.	Dr. U. Bagavathi Ammal	17.4.20	Skype meeting - Review of STCR scheme by Project Coordinator	IISS, Bhopla
10.		25.4.20	Skype meeting - Review of STCR scheme by Project Coordinator	IISS, Bhopal
11.	Dr. U. Bagavathi Ammal	17.6.20	Webinar on Combating Desertification and Drought for Food, Feed and Fiber	International Soil Conservation Organization (ISCO) and Soil Conservation Society of India (SCSI)
12.		9.7.20	Executive council meeting	Indian Society of Coastal Agrl. Research
13		11.7.20	Webinar on Impact of Population Pressure on Natural Resources and Environment" by	Academy of Natural Resources Conservation and Management, Lucknow
14		21.8.20	International webinar on Soils and climate	Dr.Ratan Lal Amity University
15		3.9.20	Webinar on Reversing the trend of degrading soil health	Kumaraguru Institute of Agriculture
16		22.9.20	Annual general body meeting in Society for advancement of rice research	IIRR,Hyderabad
17		31.10.20	National Webinar on Quality improvement and proficiency testing of soil laboratories in India	ICAR-IISS, Bhopal
18		10.11.20	Conference on "Developing human resources for recalibrating	AICRP-STCR

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			STCR”	
19		23.11.20	International webinar on “Soil health for ensuring food security	AEC &RI, Kumulur, TNAU
20		3.12.20	World soil day Webinar on “Re-inventing carbon cycles for sustainable soil health”	Division of soil science, SKUAST, Kashmir
21	Dr. U. Bagavathi Ammal	5.12.20	Dr.B.Ramamoorthy memorial lecture on “Closing the nutrient loop: phosphorus management in protein farming “	Indian society of soil science-coimbatore chapter-TNAU
22		15.12.20	International webinar on “Soil biodiversity for a healthy soil and sustainable future”	AC&RI, Kudumiyamalai-TNAU
23		7.12.20 to 11.12.20	Training on “Integrated soil nutrient and rhizosphere management”	NIPHM, Hyderabad
24		4.1.21 to 8.1.21	National webinar on “Sustainable Agri.through natural resources”	Navsari Agri.University,Gujarat
25		4.1.21 to 11.1.21	Training on “Statistical data analysis using R programme”	NIHEP and SCS college of Agriculture, Assam
26		16.3.21 to 19.3.21	International symposium “Coastal Agriculture: Transforming Coastal Zone for Sustainable Food and Income Security”	Indian Society of Coastal Agricultural Research (ISCAR).
27		20.3.21 to 22.3.21	National Web Conference on <i>Natural Resource Conservation and Management</i>	Academy of Natural Resource Conservation and Management, Lucknow, India

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
28		23.3.21	International Webinar: "Strategic Partnership towards Sustainable Soil Management"	Malaysian Society of Soil Science (MSSS)
29	Dr. L. Aruna	01.08.2020	Online National webinar - Organic Farming– Scope & Business Opportunities in India	School of Agricultural Sciences & Technology (SAST) and NMIMS University Students' Council (NUSC)
30	Dr. L. Aruna	08.08.2020 to 10.08.2020	Online International workshop - Application of statistics in science and technology using SPSS – 3 days	World Food Preservation Centre, USA
31	Dr. L. Aruna	10.08.2020 to 21.08.2020	Online FDP - Training Programme - ICT Tools for Teaching, Learning Process and Institute -10 days	Electronics and ICT Academies under MeitY, Govt. of India
32		17.08.2020 to 22.08.2020	Online Soft Skill training Programme To Enhance Professional Efficiency and Effectiveness - 7 days	CAAST-CSAW) and Department of Agricultural Extension and Communication, Mahatma Phule Krishi Vidyapeeth, Rahuri (MS) under the NAHEP of ICAR
33		27.08.2020	Online National webinar - Abiotic Stress in Agriculture: Geospatial Characterization and Management Options	ICAR-National Institute of Abiotic Stress Management, Baramati, India
34		27.08.2020 and 28.08.2020	Online International Web Conference - Biodiversity in Vegetable Crops for Healthier Life and Livelihood – 2 days	Bihar Agricultural University, Sabour, Bhagalpur
35		24.09.2020 to	Online Training - Basic Statistical Tools in	Socio-Economics and Extension division,

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
		26.09.2020	Agriculture – 3 days.	ICAR-Research Complex for Eastern Region, Patna, Bihar
36		06.10.2020	Online webinar - Utilization of Organic Waste for Soil Health Management and Energy Production Under Changing Climate Scenario.	Sri Karan Narendra Arl. University, Jobnar, Jaipur
37	Dr. L. Aruna	19.10.2020 to 21.10.2020	Online International webinar - Nanotechnology in Agriculture and Biotechnology – 3 days	Dept. of Agricultural Biotechnology and Molecular Biology, CBS&H and Dept. of Seed Science & Technology, TCA, Dholi.
38		21.10.2020 to 30.10.2020	Online International Training - Climate Risk Assessment and its Management Through Agro meteorological Approaches - 10 days	Dryland Agriculture Research Station, Rangreth SKUAST, Kashmir
39		06.10.2020	Online National webinar - Recent Trends on Modern and Precision Agriculture	Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India and sponsored by NAHEP, IG, ICAR
40		17.10.2020	Online National webinar - Digital Agriculture – A Way Forward	School of Agricultural Sciences & Technology (SAST) and NMIMS University Students' Council (NUSC)
41		02.12.2020 to 11.12.2020	Online International training on World Soil Day Event, - Soil Biodiversity for Sustainable Agro-	Division of Soil Science, SKUAST-Kashmir

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			ecosystem – 10 days	
42		14.12.2020 to 19.2.2020	Online International Training Programme - “Organic Farming : Field to Fashion – 7 days	Center for organic farming, Dr. Panjabrao Deshmukhi Krishi Vidyapeeth, Akola, Maharashtra.
43		06.02.2021	Online International webinar, “Food System Approach to Nutritional Security: Role of Agricultural Higher Education System in India”	Dept. of Agrl. Economics and Extension, PAJANCOA & RI, Karaikal.
44	Dr. R. Sankar	13.8.2020	Webinar on “Significance of space technology on crop and soil sustainability”	Dept. of Soil Science and Agrl. Chem. , Annamalai university, Chidambaram.Online
45		04.09.2020	Webinar on “Relevance of Modelling in Nutrient and Water Management”	Dept. of Soil Science and Agrl. Chem., Annamalai university, Chidambaram.
46		23.11.2020	International webinar on “Soil health for ensuring food security”	Dept. of Soil & Water Conservation Engg., Agrl. Engg. College & Res. Institute, TNAU, Kumulur.
47		02.12.2020	World soil day Webinar on “Benefits and trade-offs of organic carbon sequestration in soils”	Division of soil science, SKUAST, Kashmir
48		03.12.2020	World soil day Webinar on “Re- inventing Carbon Cycles for Sustainable Soil Health”	Division of soil science, SKUAST, Kashmir
49		05.12.2020	World soil day Webinar on “Soil Microbial Metabolism for Sustainable and Balanced Nutrient	Division of soil science, SKUAST, Kashmir

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			Management”	
50		07.12.2020	World soil day Webinar on “Integrated soil sensing and mapping for sustainable soil management”	Division of soil science, SKUAST, Kashmir
51		15.12.2020	International webinar on “Soil biodiversity for a healthy soil and sustainable future”	Dept. of Crop Management, AC&RI, TNAU, Kudumianmalai
52	Dr. Rajakumar, R	05.09.20 - 05.12.20	Online lecture series 2020 – Innovative Approaches towards managing soil health for climate smart agriculture	Dept. of SS&AC, VNMKV, Parbhani
53	Dr. Rajakumar, R	23.11.20	International Webinar - Soil health for ensuring food security	AEC & RI, TNAU, Kumulur
54		02.12.20 - 11.12.20	International Training - Soil biodiversity for sustainable agro-ecosystem functioning	SKUAST, Kashmir
55		04.12.20	International Webinar - Pulses to keep soil alive and protect biodiversity	RARS, Lam, Guntur, ANGRAU
56		04.12.20 - 05.12.20	National e-posters Olympiad - Soils, Biomes and Resilience to Climate Change	Soil Conservation Society of India
57		14.12.20 - 18.12.20	Online training – Role and use of bio inputs for plant health management	NIPHM, Hyderabad
58		15.12.20	International Webinar - Soil biodiversity for a healthy soil and sustainable future	AC & RI, TNAU, Kudumianmalai

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
59		16.12.20 - 17.12.20	Webinar - Integrated nutrient management for horticulture crop	Maharana Prathap Horticultural University, Karnal (NAHEP)
60		22.12.20	International Webinar - SOIL: Forestry and Environment	Malaysian Society of Soil Science
61		22.12.20 – 24.12.20	Online training - Role of organic farming in plant health management	NIPHM, Hyderabad
62		04.01.21 - 08.01.21	National webinar - Sustainable Agriculture through natural resources	Navsari Agricultural University, Gujarat
63		09.01.21 - 10.01.21	National level workshop - Emerging issues in environmental science	Centre for Environmental research, Education and development and DERO
64	Dr. Rajakumar, R	04.01.21 - 11.01.21	National level online training - Statistical data analysis using R software	NAHEP - SCS college of Agriculture, Assam in collaboration with NIELIT
65		22.02.21 - 24.02.21	e-Training - Basics of Image Interpretation	Geological Survey of India Training Institute, Hyderabad
66		16.03.21	National Webinar - Roles of Bio-fertilizer In Sustainable Agriculture	Malaysian Society of Soil Science
67		16.03.21 - 19.03.21	International Symposium - Coastal Agriculture: Transforming Coastal Zone for Sustainable Food and Income Security	Indian Society of Coastal Agricultural Research, ICAR-Central Soil Salinity Research Institute, Regional Research Station, Canning Town
68		20.03.21 - 22.03.21	National Web Seminar - Natural Resource	Academy of Natural Resource

Sl. No.	Name of the Scientist	Date	Title of the Programme/ Seminar / Symposium / Training attended	Place / Venue
			Conservation and Management	Conservation and Management (ANRCM), Lucknow (U.P.), India
69		01.03.21 - 21.03.21	Online course - Information handling skills for teaching, learning and research	PJTSAU under ICAR-NAHEP(IG) sub project
70		23.03.21	International Webinar - “Strategic Partnership towards Sustainable Soil Management”	Malaysian Society of Soil Science
71		31.03.21	International webinar - Forestry in Motion: Appreciating Green Space Around Us	Malaysian Society of Soil Science
72		08.01.21 - 07.04.21	Online certification course - Smart Farming Technologies and Secondary Agriculture Key to Making Indian Agriculture Remunerative	Navsari Agricultural University, Gujarat



Training on Quality seed production in Rice on 31.12.2020



Training on Quality seed production in Black gram on 21.01.2021

Seed production in Fodder, Forage and Green manure crops : A venture for doubling of farmers' income on 26.02.2021



VI. SPECIAL PROJECT/ PROGRAMME

VI. SPECIAL PROJECTS/PROGRAMMES/CENTRAL OR PRIVATE SPONSORED SCHEMES

1. AGRICULTURAL ENTOMOLOGY

Sl. No.	Title of the Project	Scientist incharge (PI/Co-PI etc)	Funding Agency	Funds / contingencies received (Rs.)	Salient findings
1	Rice Entomology trials	Dr.K.Kumar, Principal Investigator Dr.M.Kandibane Principal Investigator	AICRIP-IIRR, Hyderabad	25,000/-	1. Leaffolder screening trial-lowest damage was observed in the mutant W1263. 2.Insecticide-Botanicals Evaluation Trial- all insecticides module was found to be superior 3. Effect of Planting Dates on Insect Pest Incidence- High incidence of leaffolder was observed in early planting compared to normal and late planting 4. Population dynamics of rice insect pests assessed through light trap catches- Pest and natural enemies were low
2	Paddy and Blackgram Entomology trials	Dr.K.Kumar , Co- Principal Investigator	AICRP- National Seed Project (Crops)- STR Experiments	25,000/-	1.Evaluation of pre-harvest spraying of insecticides and botanicals for management of pulse beetle-Experiment is in progress 2. Survey and evaluation of seed health status of farmers saved paddy seeds with respect to insect infestation- <i>Sitotroga cerealella</i> and <i>Rhyzopertha dominica</i> were found in all the seed samples 3. Effects of solarization on bruchids infestation

Sl. No.	Title of the Project	Scientist incharge (PI/Co-PI etc)	Funding Agency	Funds / contingencies received (Rs.)	Salient findings
					and quality of pulse seeds-Experiment is in progress 4. Efficacy of commercially available neem products on storage pest management during storage under ambient conditions- Experiment is in progress 5. Studies on the effect of insecticidal seed treatment on seed viability during storage under ambient condition- Experiment is in progress
3	Recommendations given for the farmers field problems	Dr.K.Kumar , Co- Principal Investigator	Agromet-GKMS-IMD	10,000/-	Recommendations given for the farmers field problems
4	Evaluation of NNI 1702 insecticide against the sucking pests of rice	Dr.M.Kandibane Principal Investigator Dr.K.Kumar , Co- Principal Investigator	Nichino India Pvt.Ltd, Hyderabad	4,04,370/-	Trials are in progress

2. PLANT BREEDING AND GENETICS

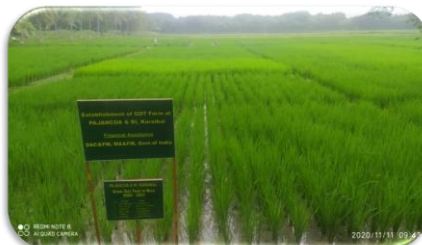
a. Dr. V. Vengadessan, Assistant Professor (PBG) Department of Plant Breeding & Genetics deputed on special duty (Period from 24-07-2020 to 08-09-2020) at the Department of Agriculture. Consolidated Report on ADVISORIES TO THE BENEFICIARY OF THE RURAL / URBAN HORTICULTURE PROGRAMME has been submitted.

b. Special assignments undertaken during (2020-21) by Dr. T. Ramanadane, Professor (SST)

v) Undertook the following works through the Karaikal Polytechnic College by getting the financial assistance of Rs.12,00,000/- under the project on Strengthening of GOT facilities at PAJANCOA & RI, Karaikal, Puducherry (UT) funded by the Govt. of India under Sub-Mission on Seeds and Planting Materials under National Mission on Agri. Extension Technology:

Sl. No.	Name of the work	Amount (Rs in Lakhs)
1	Rectification of farm road	6.00
2	Rectification of farm fencing	2.50
3	Rectification of irrigation cum drainage channel with cement slabs	1.50
Total		10.00

**Strengthening of infrastructure facilities for Grow out test farm at
PAJANCOA & RI, Karaikal under SMSP of Govt. of India
(Rs.12.00 Lakhs)**



Rectification of Farm Road



Rectification of irrigation cum
drainage channel with cement slabs



Rectification of Farm Fencing



University of Agricultural Sciences, Dharwad and Pandit Jawaharlal Nehru College of Agriculture and Research Institute, (PAJANCOA & RI), Karaikal, Union Territory of Puducherry, signed a Memorandum of Understanding in the presence Vice-Chancellor Dr. M.B. Chetti and Registrar Dr. Ramesh Desai.



Signing of Memorandum of Understanding with ATAL Incubation Center, Pondicherry Engineering College Foundation, Puducherry through online.



Installation of polyhouse in Departement of Plant Breeding and Genetics



Installation of polyhouse in Departement of Plant Breeding and Genetics

**VII. STUDENTS CLUB
ACTIVITIES
CO-CURRICULAR AND
EXTRACURRICULAR**

VII. STUDENTS CLUB ACTIVITIES

Co-Curricular, Extra Curricular Activities

No.	Date	Activity
1	26.06.20	Conducted online slogan writing competition and digital banner designing for International day against drug abuse and Illicit trafficking 2020. Best
2	18.08.20	Conducted online quiz and essay writing competitions for Reading Day and Month 2020
3	01.11.20	Attended Puducherry Liberation Day 2020 celebrations. Oath taken for National Unity Day and Vigilance awareness week pledge
4	29.01.21	Attended theft enquiry in boys' hostel as a member of enquiry committee
5	31.01.21	Conducted Martyr's Day 2021 function with Freedom Fighter Mr. Sathyamurthy as chief guest
6	10.02.21	Attended NSS Camp at Pettai Village of Thirunallar commune
7	17.02.21	Blazer purchase made and distributed to all students of 2018 batch
8	23.03.21	Arrangements made for photo session for ID card preparation of I year UG and PG students
9	23.03.21	Women's day 2021 programme at PAJANCOA arranged and celebrated

NCC ACTIVITIES 2020-2021



Vinay Mishra, Commanding officer interactive with students on February 2021



Combined Annual Training Camp (CATC) –
2021 [08/12/2021 – 12/02/2021]
Venue: 1(P) NCC Naval Unit, Lawspet

Sri Babu Jagajeevamram's Statue Cleaning –
10/03/2021



NCC 'B' Certificate Exam – IInd year Venue:
NIT college, Karaikal Date: 21/03/2021

NCC 'C' Certificate Exam – IIInd year Venue:
NIT college, Karaikal Date: 27/03/2021



NCC 'C' Certificate Exam



NCC 'C' Certificate Theory Exam– IIIrd year Venue: NIT college, Karaikal
Date: 28/03/2021



Boat pulling event for senior cadets– Venue: Chunnambar Boat House
DATE: 11/03/2021 -12/03/2021

NSS ACTIVITIES 2020-2021



NSS Activities During COVID – 19 Volunteering Free Rice Distribution –
PMGKAY01.04.2020 – 23.04.2020



Issue of free groceries to 20 Families – Below Poverty Line
26.08.2020



Door to door awareness regarding aids on World aids day 01.12.2020



Awareness on COVID – 19 In KaraikalMedu Village - 17.01.2021



Participation in Signature Campaign and EVM, VVPAT Demonstration on 23.01.2021



NSS Special Camp 2021



Tree Plantation on 16.02.2021



Prize Distribution on 16.02.2021

VIII. STRENGTHENING OF LABORATORIES DEPARTMENT/HOSTELS

VIII. STRENGTHENING OF LABORATORIES/DEPARTMENT/HOSTELS

I. AGRICULTURAL ENTOMOLOGY

Sl. No.	Name of the Item	Purpose / use	Source of funding	Cost(Rs)
1	Binocular microscope	For department use	Scheme fund	25,000
2	Stereo microscope	For department use	Scheme fund	25,000

II. HORTICULTURE

Sl. No.	Name of the Item	Purpose / use	Source of funding	Cost(Rs)
1	Weighing balance (0.001 gm – 200 gm)	To analyse the quality parameters in vegetables raised under AICRP on Vegetable Crops	AICRP on Vegetable Crops	24,780.00
2	Refrigerator digital vertical (-2 ⁰ C to 8 ⁰ C) – 350 lit capacity			44,840.00
3	Magnetic stirrer Model 2 MLH 2 litre capacity with hot plate & Digital Speed			8,260.00
4	Hot Plate Round Model:Double Type			18,585.00
5	All Single Distillation unit with output of 1.5 litre			33,911.00
6.	Purchase of chemicals			48,868.00
7.	Providing side wall and flooring in vegetable drying and storage yard	Drying of different vegetable samples under AICRP on Vegetable Crops	AICRP on Vegetable Crops	73,299.00
8.	Shade net (400 meter square)	To conduct the AICRP on Vegetable Crops trial	AICRP on Vegetable Crops	16800.00

Sl. No.	Name of the Item	Purpose / use	Source of funding	Cost(Rs)
	TOTAL			2,69,343.00

III. PLANT BREEDING AND GENETICS

Sl. No.	Name of the Item	Purpose / use	Source of funding	Cost (Rs.)
1	Polyhouse erection	For use in Plant Tissue culture lab	NHM-TC lab scheme	5,58,400
2	Laptop	For the effective use of information and communication technology (ICT)	AICRP-Small Millets	55,000
3	Monitor and Accessories	Dell 24-inch Monitor HDMI to VGA Adapter Wireless Key Board and Mouse	AICRP-Small Millets	15,000
4	Autoclave - 40 litres	Decontamination of Petriplates and bottles used in tissue culture lab.	AICRIP – Hybrid Rice, IIRR, Hyderabad.	56,935/-

Strengthening of Seed Processing unit/Seed storage godown Under ICAR Seed Project

Sl. No.	Name of the item	Source of funding	Quantity (No.)	Cost (Rs)
1	Mini Power Weeder	ICAR Seed Project	1	14,300
2	Electronic weighing scale	ICAR Seed Project	1	8,260
3	DLP Projector	ICAR Seed Project	1	25,000
4	Aluminium Ladder 7'	ICAR Seed Project	1	2,660
5	Roofing Exhaust Fan	ICAR Seed Project	4	23,000
6	Steel Book Case	ICAR Seed Project	1	17,110
7	Steel Almirah	ICAR Seed Project	1	17,700

Sl. No.	Name of the item	Source of funding	Quantity (No.)	Cost (Rs)
8	Hydraulic Pallet Truck	ICAR Seed Project	1	17,700
9	REVO Double Needle	ICAR Seed Project	1	7,146
10	UPS Inverter & Battery & Installation	ICAR Seed Project	1 set	24,000
11	Tree cutter and Sickles	ICAR Seed Project	2 & 10	4500
12	GI Chain Link of 10' x 8'	ICAR Seed Project	19	24,770
13	Wooden Platform for Seed storage godown (vengai; 60"x24"x2")	ICAR Seed Project	1	18,500
14	Dissection Microscope DM4	ICAR Seed Project	6	24,255
15	Digital Moisture Meter	ICAR Seed Project	1	24,000
16	75 mm HDPE Pipes for irrigation	ICAR Seed Project	26	24,752
17	Stereo Microscope	ICAR Seed Project	1	24,937
18	Binocular Microscope	ICAR Seed Project	1	24,937
19	TANUVAS-LFC-Low Cost Hydroponics	ICAR Seed Project	1	31,875
20	RO Units for providing drinking water facility to the students and labourers	ICAR Seed Project	2	20,060
21	Scribbling pads printed with college name, scheme name and logo of PAJANCOA Seeds	ICAR Seed Project	1000	13,216
22	Screen with Tripod stand for new DLP projector	ICAR Seed Project	1	4000
23	Servicing of Fine Grader and Gravity Separator in Seed Processing	ICAR Seed Project	-	5000
24	Electrical light fittings fixed in all four sides (exterior) of the newly constructed Seed Storage Godown for illumination	ICAR Seed Project	6	16,000
25	Rectification of Old Threshing floor cum drying yard	ICAR Seed Project	1	24,000
26	ALLARK DIMKIT SET (Felt Notice Board)	ICAR Seed Project	2 sets	22,713

Sl. No.	Name of the item	Source of funding	Quantity (No.)	Cost (Rs)
27	White washing in the Northern side high ceiling wall in the lobby of ground Floor in Administrative Block	ICAR Seed Project	-	25,000
28	Acrylic Label stand 1/4 th of A4 size (10.5 cm x 15 cm) & 1/8 th of A4 size (10.5 cm x 7.5 cm)	ICAR Seed Project	Each 50	10,750
29	Gunny bags of 30 kg capacity	ICAR Seed Project	2000	98,000
30	Super Grain Bags	ICAR Seed Project	180	14,868
31	Electrical cable connection to Seed Storage Godown	ICAR Seed Project	-	10,000
			Total	6,08,141

Strengthening of Laboratories/Department/Seed Processing unit/Seed storage godown Under National Seed Project

Sl. No.	Name of the item	Source of funding	Quantity (No.)	Cost (Rs)
1	Fixing wire mesh in the windows of Seed Technology Lab, STR Lab and Seed Technology Unit staff room	National Seed Project	1	22,800
2	Extension of raised platform (dias) kept for Teachers in the Lab with wooden Platform of size 8'x6"x24"; 2 Nos. @ Rs.9000/- platform Fixing of wire mesh outside the exhaust fan Rectification of speaker box cover damaged by rats and squirrel Replacement of damaged window glasses in Seed Processing Unit Servicing of ac units in STR LAB	National Seed Project	1	24,460
3	Bio Visual Charts	National Seed Project	22	15,950
4	Text Books directly from M/s SCIENTIFIC PUBLISHERS	National Seed Project	14 (each two	21,776

Sl. No.	Name of the item	Source of funding	Quantity (No.)	Cost (Rs)
	(INDIA), Jodhpur		copies)	
5	Text Books from Cheran Book House, Coimbatore	National Seed Project	21	24,803
6	Text Books from New India Publishing Agency (NIPA), New Delhi	National Seed Project	8 (each two copies)	23,817
7	Text Books of Seed Science & Technology (online purchase)	National Seed Project	11	24,922
8	Purchased Lab wares	National Seed Project	1	11,695
9	Purchased chemicals	National Seed Project	1	21,324
10	Purchased Bamboo stacks	National Seed Project	4000	5000
11	Seed Germination Paper	National Seed Project	120	21,907
12	Fertilizers for Field trials	National Seed Project	-	24,850
13	Single cavity seed displayers and plastic labels and pegs	National Seed Project	100, 200 and 200	20,848
			Total	2,64,152

IV. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl. No.	Name of the Item	Purpose / use	Source of funding	Cost
1	Laboratory chemicals	To conduct regular practical classes of UG, P.G degree programmes and for analysis of the ongoing research programmes	IIRR- AICRIP SS & AC funded centre	1,85,918/-
			ICAR - STCR	1,50,000/-

V. STRENGTHENING OF HOSTELS

Sl. No.	Name of the Item	Purpose / use	Source of funding	Cost
1.	Purchase of new RO Plant	To provide drinking water facilities to the hostel inmates	Hostel funds	148000.00
2.	Purchase of wet grinder	Preparation of chutney, grinding of rice and black gram for dosa and idlly making	Hostel funds	22500.00
3.	Purchase of Dustbin	To keep the room very clean by hostel inmates	Hostel funds	18650.00
4.	Purchase of Pedal operated Hand wash	Preventive measures to control the corona	Hostel funds	15008.00
TOTAL				204158.00

**IX. AWARDS/
RECOGNITIONS
PUBLICATIONS**

IX. AWARDS/RECOGNITIONS

PUBLICATIONS OF THE STAFF

AWARDS /RECONITIONS

I. AGRICULTURAL ECONOMICS AND EXTENSION

Dr.A.Pouchepparadjou, Recognized as Member of Executive Committee of Agricultural Economics Research Association (India) for the year 2020.

Dr.L.Umamaheswari, Reviewer in the INSEE Journal - Ecology, Economy and Society (2018 to July 2019).

Dr.N.Swaminathan was elected as “ASSOCIATE MEMBER” of Insurance Institute of India, Mumbai-A professional Body in the Field of Insurance Education and Research.

Dr.N.Swaminathan was elected as “LIFE MEMBER” of The Indian Water Resources Society, Indian Institute of Technology, Roorkee-A professional society dedicated to the advancement of science and Technology of water resources development and management.

Dr.N.Swaminathan was selected as member of Editorial Review Board of ‘Amity Journal of Agribusiness’-An international, Biannual Refereed Journal of Agribusiness Management.

Dr.S.Parthasaarathi, Best Paper Presentation Award in the International Conference on “Recent Trends in Agriculture towards Food Security and Rural Livelihood held at Annamalai University during 3`4 January 2020.

Dr.S.Saravanan, Network administration, updating college website, monitoring and maintenance of E-communication and guiding staff and students through internet and mobile relating to conducting online classes during Covid-19.

Dr.S.Saravanan, Member, E-Governance Committee since 08.11.2013 and Member E-Procurement Committee since 8.11.2013 of the institute.

II. AGRICULTURAL ENTOMOLOGY

Dr. M. Kandibane

- Received scientist Award – 2020 for contribution to Agricultural entomology and higher education in 2020 by Dr.B.Vasantharaj David Foundation held on 05.12.2020 at Chennai, Tamil nadu.

Dr.K.Kumar

- Received Honorary fellow – 2020 for outstanding contribution to Agricultural Entomology in 2020 by Society for Biotic and Environmental Research held on 06.06.2020 at Tripur.
- Received Outstanding teacher award -2020 for commendable contribution in the field of Insecticide Toxicology in 2020 by Society for Biotic and Environmental Research held on 16.10.2020 at Tripur.
- Received Singaravelar award Fisherman arts and literature research centre held on 03.01.2020 at Puducherry.

III. AGRONOMY

Dr. S. Mala

- Recognized as **Editorial Board member** in “**Forage Research**” Journal published by HAU, Hisar, Haryana
- Served as **Examiner for setting of question papers – Diploma standard for TNPSC**, Chennai
- Served as **External Examiner for Ph. D thesis evaluation** of Ms. Gritta Elizabeth, **KAU, Vellayani, Thiruvananthapuram and Kerala.**

IV. PLANT PATHOLOGY AND MICROBIOLOGY

Dr. Shamarao Jahagirdar

Prof. M Puttarudraiah Memorial Endowment Award by Institution of Agricultural Technologists, Bengaluru from 2020.

Editor by Indian Phytopathological Society New Delhi from 2020-2022.

Vice President-SSRD by Society for Soybean Research & Development, IISR, Indore from 2020-2023.

UAS Incentive Award 2019 for externally funded Projects by UAS, Dharwad from 2020.

Member, Academic Council, Pondicherry Central University, Pondicherry from 2021-2023.

Assoc.Editor, Journal of Soils and Crops, Nagapur from 2019.

Member, International Advisory Committee. Six Asian Congress on PGPR for Sustainable Agriculture held Tashkent from 2009-2021.

Chaired the Technical Session on Fungicides in Plant Disease Management in National Webinar on Innovative Approaches in Plant Health Management” Annual conference and National e-Symposium of ISMPP organized by University of Horticultural Sciences, Bagalkot, Karnataka from 28.1.2021-30.1.2021.

Co-Chaired Technical Session on Plant Microbial Interactions and Signaling in International E-Conference on Multidisciplinary approaches for plant disease management in achieving sustainability in agriculture from 06.10.2020-09.10.2020.

Co-Chaired Technical Session on Omics and informatics in plant pathology in International E-Conference on Multidisciplinary approaches for plant disease management in achieving sustainability in agriculture from 06.10.2020-09.10.2020.

Webinar on Food System Approach to Nutritional Security: Role of higher Education System in India from 06.2.2021.

Member, Scientific Advisory Committee of Pondicherry KVK, Pondicherry from 24.12.2020.

Member, Scientific Advisory Committee of KVK, Karaikal from 24.12.2020.

Centralised Admission Committee (Centac) 2021-22, Government of Puducherry, Common Online Admission Portal To All Colleges In U.T. of Puducherry from 24.12.2020.

V. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Dr. U. Bagavathi Ammal - Recived asExecutive council member for the year 2019 - 2021 in Indian society of coastal Agrl. Research

Dr. U. Bagavathi Ammal - Served as Rapporteurin theme III and session Iin ISCA webinar –International Symposium on coastal agriculture: Transforming coastal zone for sustainable food and income security held on 16.3.21 to 19.3.21:

Dr.U.Bagavathi Ammal, C.Krithika, Dr.K.Omar Hattab and Pradip Dey. Best paper award in National Web Conference *Natural Resource Conservation and Management* on 20 to 22 March 2021 organized by Academy of Natural Resource Conservation and Management (ANRCM), Lucknow, India.

Dr.R.Rajakumar, Dr.S.Jayasree Sankar and Dr.U.Bagavathi Ammal. Best paper award in National Web Conference on *Natural Resource Conservation and Management* during 20 to 22 March 2021 organized by Academy of Natural Resource Conservation and Management (ANRCM), Lucknow, India.

PUBLICATIONS

RESEARCH ARTICLES/ PAPER PRESENTED IN CONFERENCE

I. AGRICULTURAL ECONOMICS AND EXTENSION

International

Teena Lakshmi B, P.Nasurudeen, L.Umamaheswari and K.C.Ayyoob, 2019 'Research paper titled, 'Impact of fiscal deficit on Indian Economy', International Journal of Agricultural Sciences, Vol (24); 9320-9322.

National

Pouchepparadjou A, C Aroutselvam and J Maruthi, 2019. Socio-economic impact of farm mechanization on agricultural labour in the Cauvery delta of Tamil Nadu and the Union Territory of Puducherry, Agricultural Economics Research Review, 32 (Conference Number), P:195.

Pouchepparadjou A 2020. "Socio-Economic Issues in Farming due to Climate change in India" in the International Conference on "Frontiers in Environmental Health and Mitigation" (ICFEHM) at Government Arts College, Ariyalur, Department of Zoology, 27th & 28th February, 2020.

Pouchepparadjou A 2020. "Socio-Economic Impact of MGNREGA on Agricultural Labour an Rural Households in Tripura", in National Seminar on "Indian Agricultural Crisis: The Way Forward" at Department of Economics, Periyar University, Salem, 13th & 14th March, 2020.

Umamaheswari, G, A.Pouchepparadjou, L.Umamaheswari and A.ShaikAlauddin, Research paper titled, 'Rice production under system of Rice intensification for assuring food security-An economic analysis', pp 31-38 in the ISBN book on the National conference, 'Ascertaining food security through livelihood enriching interventions: Challenges and Opportunities', 4-6 Sept 2019.

Sundariya, M., L.Umamaheswari, P.Nasurudeen and S.George Paradis, Research paper titled, 'Impact of freshwater fish farming on livelihood security of farmers in Puducherry U.T.', pp. 265-270 in the ISBN book on the National conference, 'Ascertaining food

security through livelihood enriching interventions: Challenges and Opportunities', 4-6 Sept 2019.

Parthasarathi, S and R.Ganesan. 2019. Natural Resource Utilisation through Women Entrepreneurs for Livelihood Security - A Case of Women SHG, in the proceedings of the National Conference on Ascertaining Food Security through Livelihood Enriching Interventions: Challenges and Opportunities from 4th to 6th Sep.2019 held at PAJANCOA & RI from 4-6 Sep. 2019.

II. AGRICULTURAL ENTOMOLOGY

Kandibane, M., K.Seerisha, S.Thulasi and D.Prakash. 2020. Anti insect activity of ethyl acetate extract of *Citrus colocynthis* (L.) Schrad fruit against *Spodoptera litura* (Fab.) (Noctuidae: Lepidoptera). *Journal of Biopesticides*, 13(1):28-33.

Kumar, K. and M.Kandibane. 2020. Bioefficacy of carbosulfan 6 G against the rice stem borer, *Scirpophaga incertulas* (Walker) in Karaikal district, U.T. of Puducherry. *Journal of Plant Health Issues*, 1(3): 86-90.

Dhivya, G and K.Kumar. 2020. Efficacy of essential oils against the rice leaf folder, *Cnaphalocrocis medinalis* (Guenée) in Karaikal district, U.T. of Puducherry. *International Journal of Chemical studies*, 8 (6):306-310.

Tamilselvan, T and K.Kumar.2021.Diversity of coccinellidae and odonata in Agri-Horti ecosystems.*Indian Journal of Entomology*, 83:1-3.

Palanivel, S. and Manickavasagam, S. 2020. Three new species of *Arescon* Walker (Hymenoptera: Mymaridae) and a Key to Indian Taxa. *Transactions American Entomological Society*, 146(3): 463-479.

III. AGRONOMY

International

Pazhanisamy, S., AL. Narayanan, V. Sridevi, A. Singh, and A. K. Singh. 2020. Effect of seed priming practices on dry matter production, yield and yield attributes of aerobic rice in coastal deltaic region of Karaikal. *European Journal of Nutrition & Food Safety* 12(3): 79-83.

- Pazhanisamy, S., AL. Narayanan, V. Sridevi and R.C.Devi. 2020. Correlation regression studies between different weather parameters and yield of aerobic rice. *International Journal of Chemical Studies* 8(3): 2357-2360.
- Pazhanisamy, S., AL. Narayanan, V. Sridevi and R.C.Devi. 2020. Crop weather relationships on aerobic rice production under coastal area. *International journal of Creative research thought*. 8(5): 1580-1584.
- Ramya, K. and Poonguzhalan, R, 2020. Physical and economic levels of nitrogen for aerobic rice under different establishment methods, *Int. J. Curr. Microbiol. App. Sci.*, **9**(5): 985-992. doi: <https://doi.org/10.20546/ijcmas.2020.905.108>
- Kiranmai, N.A., Mohan, R., Poonguzhalan, R. and Nadaradjan, S., 2020. Performance of rice varieties, irrigation methods and foliar spray on growth attributes of aerobic rice. *Internatl. J. agric. Sci.*, 16(2): 105-111. doi: [10.15740/HAS/IJAS/16.2/000-000](https://doi.org/10.15740/HAS/IJAS/16.2/000-000).
- Kiranmai, N.A., Mohan, R., Poonguzhalan, R. and Nadaradjan, S., 2020. Agronomic and physiological measures to enhance the yield and water productivity of aerobic rice in coastal deltaic region of Karaikal. *Internatl. J. agric. Sci.*, 16(2): 247-252. doi: [10.15740/HAS/IJAS/16.2/000-000](https://doi.org/10.15740/HAS/IJAS/16.2/000-000).
- Mohan, R, L. Aruna, S. Nadaradjan, S. Sundaravarathan and G. Sivaraman. 2021. Evaluation of Zymo Grainrich on the growth, physiology and yield of rice. Abs. presented in "Transforming Coastal Zone for Sustainable Food and Income Security", ISCA, 16th - 19th March 2021
- Prasad, V.R., V. Chellamuthu and V.Sridevi. 2020. Effect of tillage, seed rate and weed management on the yield of direct seeded rice in the coastal region of Karaikal. *Plant archives* 20 (2): 3564-3570.

National

- Pazhanisamy, S., AL. Narayanan, V. Sridevi, A. Singh, and A. K. Singh. 2020. Effect of Weather Parameters on Yield and Yield Attributes under Aerobic Rice Cultivation during Navarai Season. *Current Journal of Applied Science and Technology* 39(7): 115-121.

- Saravanane, P., Poonguzhalan, R., Vijayakumar, S. and Pooja, K., 2020. Crop-weed competition in blackgram in coastal deltaic eco-system. *Indian J. Weed Sci.*, 52(3):283-285.
- Saravanane P. 2020. Effect of different weed management options on weed flora, rice grain yield and economics in dry direct-sown rice. *Indian Journal of Weed Science* 52 (2): 102-106.
- Rajendra Prasath, V., Chellamuthu and P. Saravanane. 2020. Economics and energetic of direct seeded rice under different levels of tillage, seed rate and weed management. *Plant Archives* 20(2): 3809-3817
- Pooja, K., P Saravanane, S. Nadaradjan, S .Sundaravaradhan, S. Muthukumaraswamy and S Vijayakumar. 2021. Effect of cultivars and different weed management practices on yield, nutrient uptake and soil micro-flora in dry direct-seeded rice under coastal deltaic ecosystem. *Oryza* **58** (1): 21-25

IV. HORTICULTURE

International

- Janarthanan, R. and V. Sundaram. 2020. Studies on the mean performance of F₂ segregants of bhendi [*Abelmoschus esculentus* (L.) Moench]. *Int. J. Curr. Microbiol. App. Sci.*, 9 (10): 2817 - 2821.
- Janarthanan, R. and V. Sundaram. 2020. Studies on correlation coefficient in F₂ generation of bhendi [*Abelmoschus esculentus* (L.) Moench]. *Int. J. chem.. Studies*, 8 (3): 2195 – 2197.
- Sundaram, V., Vinothmani and E. Venkadeswaran. 2020. Genetic analysis in F₄ generation of bhendi [*Abelmoschus esculentus* (L.) Moench] for growth and yield. *Int. J. Curr. Microbiol. App. Sci.*, **9** (10): 2817 - 2821.
- Vinothmani, R. V. Sundaram and E. Venkadeswaran. 2020. Studies on the mean performance of F₂ segregants of bhendi [*Abelmoschus esculentus* (L.) Moench]. *Int. J. Curr. Microbiol. App. Sci*, 9 (6): 1 – 6.

Kannabiran, K., J. Padmanaban and E. Venkadeswaran. 2020. Influence of plant growth regulators and tuber weight on sprouting and flower number of glory lily [*Gloriosa superba* (L.)]. *International Journal of Chemical Studies*, **8** (5): 2353-2355. NAAS Score: 5.31.

National

Sundaram,V. Venkadeswaran, E.and R. Vinothmanti. 2020. Studies on the mean performance of F₄ families of bhendi (*Abelmoschus esculentus*) for growth and yield. *Res. On Crops*, 22 (1): 129 – 133.

Kanthaswamy, V and M. Manikandan., 2020. The impact of organic amendments for sustainable amaranthus production. *J. Soils and Crops* 30 (2) 256 – 259.

Kumanan K, M Manikandan and T Saraswathi, 2020. Impact of plant growth regulators in Lab Lab (*Dolichos lablab* L.) on yield and yield contributing characters. *The Pharma Innovation Journal* 9(12): 27-29

Venkadeswaran, E., P. Irene Vethamoni, T. Arumugam, N. Manivannan, S. Harish, R. Sujatha and E. Alli Rani. 2020. Genetic variability studies in cherry tomato [*Solanum lycopersicum* (L.) var. *cerasiforme* Mill.] for growth, yield and quality. *Electronic Journal of Plant Breeding*, **11** (4): 1222-1226. NAAS Score: 5.14.

V. PLANT BREEDING AND GENEITCS

Krishnamurthy,S.L P. C. Sharma, D. K. Sharma, K. T. Ravikiran, Y. P. Singh, V. K. Mishra, D. Burman, B. Maji, S. Mandal, S. K. Sarangi, R. K. Gautam, P. K. Singh, K. K. Manohara, B. C. Marandi, K.Chattopadhyay., G. Padmavathi, P. B. Vanve, K. D. Patil, S. Thirumeni, O. P. Verma, A. H. Khan, S. Tiwari, S. Geetha, M. Shakila, R Gill, V. K. Yadav, S. K. B. Roy, M. Prakash,A.Ananadan, J. Bonifacio, A. Ismail, and R. K. Singh. 2021. Additive main effects and multiplicative interaction analyses of yield performance in rice genotypes for general and specific adaptation to salt stress in locations in India *Euphytica*217:20 <https://doi.org/10.1007/s10681-020-02730-7>.(NAAS Rating: 7.53)

Thomas,T., J. Purushothaman., R. Janarthanan., N. Anusuya., P.G.Medisetti., J. Karthick., S.Nadaradjan and S. Thirumeni. 2020. Identification of rice genotypes for seedling

stage multiple abiotic stress tolerance. *Plant Physiol. Rep.*
<https://doi.org/10.1007/s40502-020-00549-x>. (NAAS Rating: 5.18)

Rajarajan, D and S.Thirumeni. 2020. Molecular marker based genetic relatedness assessment for short duration Rice (*Oryza sativa* L.) varieties using microsatellite (SSRs) markers. *Journal of Pharmacognosy and Phytochemistry*; 9(6): 830-836. (NAAS Rating: 5.21)

Pavithra, S and Vengadessan V. Selection for drought tolerance in rice genotypes based on principal components and selection indices. *Electronic Journal of Plant Breeding*, Vol 11(4):1032-1036. <https://doi.org/10.37992/2020.1104.168>

Kiranmai, N.A., R. Mohan, R. Poonguzhalan and S. Nadaradjan. 2020. Agronomic and physiological measures to enhance the yield and water productivity of aerobic rice in coastal deltaic region of Karaikal. *International Journal of Agricultural Sciences*, 16 (2): 247-252.

Kiranmai, N.A., R. Mohan, R. Poonguzhalan and S. Nadaradjan. 2020. Performance of rice varieties, irrigation methods and foliar spray on growth attributes of aerobic rice. *International Journal of Agricultural Sciences*, 16 (2): 105-111.

Pooja, K, Saravanan, P, Nadaradjan, S., Sundaravarathan, S., Muthukumarasamy, S. and Vijayakumar, S. 2021. Effect of cultivars and different weed management practices on yield, nutrient uptake and soil micro-flora in dry direct-seeded rice under coastal deltaic ecosystem. *Oryza*, 58 (1): 18-22.

VI. PLANT PATHOLOGY AND MICROBIOLOGY

Brunda, K. S. and Jahagirdar, S. 2020. Association of endophytes with soybean crop in northern Karnataka and parts of Maharashtra. *J. Farm Sci.*, 33(2): 244-249.

Lingaraj Dip, Hundekar, AR. and Jahagirdar, S. 2020. Field efficacy of fungicides, botanicals and biocontrol agents for the management of brown leaf spot of tobacco caused by *Alternaria alternate*. *Journal of Soils and Crops*, 30(2):244-247.

PreetiTeli, Shamarao Jahagirdar, Rao, MSL. and Basavaraja, GT. 2021. Association of causative agents of root rot complex of soybean in northern Karnataka. *Journal of Ecofriendly Agriculture*, 16(1):36-43.

- PreetiTeli, Jahagirdar, S. and Basavaraja G.T. 2020. Screening the rust resistant genotypes against root rot complex of soybean under glasshouse. *Journal of Ecofriendly Agriculture*, 15(2):154-156.
- Sharadha, H., Jahagirdar, S. and Basavaraja G.T. 2020. Integrated management of Asian soybean rust caused by *Phakopsorapachyrhizi*Syd. through fungicide and nutrients in India. *Journal of Ecofriendly Agriculture*, 15(2):160-164.
- Kambrekar, D. N. and Jahagirdar, S. 2021. Safety of Insecticides to Honey Bees targeted for the management of *Helicoverpa armigera* in Pigeon Pea. *Applied Ecology and Environmental Research* 19(3):1661-1672.
- PreetiTeli, Shamarao Jahagirdar, Rao, MSL. and Basavaraja, GT. 2021. Association of causative agents of root rot complex of soybean in northern Karnataka. *Journal of Ecofriendly Agriculture*, 16(1):36-43.

VII. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

International

- Bagavathi Ammal, U., R. Sankar, K. Coumaravel and Pradip Dey. 2020. Fertilizer Prescriptions for Rice Based on STCR –IPNS.*Int. J. Curr. Microbiol. App. Sci.*9 (10): 2517-2522.
- Bagavathi Ammal, U., G.R. Karuna Prabhu, K. Coumaravel, R. Sankar and Pradip Dey. 2020. Integrated fertilizer prescriptions for bhendi through inductive cum targeted yield model in Bahour soil series (*Typic ustropept*) of Puducherry.*The Pharma Innovation J.* 9(10): 491-496.
- Mageshen, V.R., Bagavathi Ammal U., Sankar, R., and Pradip Dey.2020Effect of varying fertilizer doses and soil test crop response based integrated plant nutrient system on enzyme activity in Bahour soil series of Puducherry. *The Pharma Innovation J.* 9(7): 452-455.
- Ashna Susan Joseph, A. Baskar, U. Bagavathi Ammal and V. Chellamuthu.2020. Comparison between the Fractions and Extractants of Phosphorus of PAJANCOA and RI Farm using Different Statistical Analysis. *Int.J.Curr.Microbiol.App.Sci* (2020) 9(9): 2953-2961.

Ashna Susan Joseph, A. Baskar, U. Bagavathi Ammal and V. Chellamuthu. 2020. Changes in the Growth Parameters of Paddy in Soils with Varying Phosphorus Status and Doses of Phosphorus applied. *Ind. J. Pure App. Biosci.* (2020) 8(4), 509-516.

Moruboyina Aditya Kishore, Baskar A, Prava Kiran Dash, Bagavathi Ammal U, Antaryami Mishra and Subhashis Saren. 2020. Distribution of different potassium fractions in the soil profiles of Karaikal, Puducherry. *International Journal of Chemical Studies* 2020; 8(2): 01-05.

Coumaravel, K. 2020. Effect of cotton stalk biochar on maize productivity under calcareous clay soil condition. *The Pharma Innovation J.* 9(10): 488-490

D.V.K. Nageswara Rao, K. Surekha and L. Aruna. Site influenced crop response: A call for specific management. Sent for publication in *oryza*

National

Bagavathi Ammal, U., L. Venkatakrishnan., M. Vetrivel., R. Sankar, K. Coumaravel and Pradip Dey. 2020. Soil test based fertilizer prescriptions under IPNS for rice-rice cropping sequence in Inceptisol of Puducherry. *Journal of Indian Society of Soil Science*, vol. 68(4). 408-414.

BOOKS WITH ISBN/ BOOK CHAPTER

I. AGRICULTURAL ECONOMICS AND EXTENSION

Uma Maheswari, G, A. Pouchepparadjou and M. Selva Ganapathy, 2019. “An Economic Analysis in System of Rice Intensification (SRI): A study on Cauvery Delta Region”, LAP Lambert Academic Publishing, Germany (ISBN: 978-620-0-47868-9).

Jennie Samuelnavaraj, D., A. Pouchepparadjou and D. Senthamizhselvan, 2019. “Impact of Climate Change on Farming Option in the U. T. of Puducherry: A Study on rice farmers”, LAP Lambert Academic Publishing, Germany. (ISBN: 978-620-0-47071-3).

Pouchepparadjou, A., L. Umamaheswari and T. Sivasakthi Devi, 2019. “Ascertaining Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities”, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, ISBN:978-93-84446-89-5

Pouchepparadjou, A., C. Aroutselvam and J. Maruthi 2019. “Impact of Farm mechanization on Farmer’s Livelihood in Cauvery Delta of Tamil Nadu and U.T. of Puducherry”, on Ascertaining Food Security through Livelihood Enriching Interventions: Challenges and Opportunities ed. A. Pouchepparadjou, L. Umamaheswari and T. Sivasakthi Devi, p: 16-20 Pandit Jawaharlal Nehru College of Agriculture and Research Institute, ISBN: 978-93-84446-89-5

Umameshwari, G., A. Pouchepparadjou, L. Umamashewari and A. Shaik Alauddin 2019. “Rice Production under System of Rice Intensification for Assuring Food Security- an Economic analysis” on Ascertaining Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities ed. A. Pouchepparadjou, L. Umamaheswari and T. Sivasakthi Devi, p: 31-38 Pandit Jawaharlal Nehru College of Agriculture and Research Institute, ISBN: 978-93-84446-89-5

Jennie Samuelnavaraj, D., A. Pouchepparadjou, N. Swaminathan and K.C. Ayyoob 2019. “Climate change and its Impact on Food Security in a Developing country”, on Ascertaining Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities ed. A. Pouchepparadjou, L. Umamaheswari and T. Sivasakthi Devi,

p: 160-125 Pandit Jawaharlal Nehru College of Agriculture and Research Institute,
ISBN: 978-93-84446-89-5

Vengatesh, M., N. Swaminathan and A. Pouchepparadjou 2019. “An Economic Analysis of the Effect of Industrial Effluents on Agriculture in Karur District of Tamil Nadu”, on Ascertain Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities ed.A. Pouchepparadjou, L. Umamaheswari and T. Sivasakthi Devi, p: 170-175, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, ISBN: 978-93-84446-89-5

Selva Ganapathy, M., A. Pouchepparadjou, N. Swaminathan and S. Parthasarathi 2019. “Assessment of Vulnerability to climate change for Determining Food Security in coastal Districts of Tamil Nadu and Puducherry”, on Ascertain Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities ed. A. Pouchepparadjou, L. Umamaheswari and T. Sivasakthi Devi, p: 182-186, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, ISBN: 978-93-84446-89-5

Pouchepparadjou, M., Shipra Das and T. Sivasakthi Devi 2019. “Impact of MGNERGA on Labour Supply and Income generation in Tripura”, on Ascertain Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities ed. A. Pouchepparadjou, L. Umamaheswari and T. Sivasakthi Devi, p: 204-208, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, ISBN: 978-93-84446-89-5

Senthamizhselvan, D., K.S. Kumaravel, A. Pouchepparadjou and S. Parthasarathi 2019. “A Performance analysis of Production and marketing of major horticultural crops and Ways to Strengthen Food Security in Puducherry U.T.”, on Ascertain Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities ed. A. Pouchepparadjou, L. Umamaheswari and T. Sivasakthi Devi, p: 339-344, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, ISBN: 978-93-84446-89-5

- Pouchepparadjou, A., L.Umamaheswari and T.Sivasakthi Devi, 2019. Editors of the Conference Book 'Ascertaining food security through livelihood enriching interventions: Challenges & Opportunities', 4-6 Sept, ISBN: 978-93-84446-89-5.
- Sivasakthi Devi.T and C.Ramasamy 2019. "Economic analysis of environmental impact on pollution of Dyeing industries in Karur district of Tamil Nadu" Ed: Pouchepparadjou, L.Umamaheswari and T.Sivasakthi Devi "Ascertaining Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities" Published by PanditJawarharlal Nehru College of Agricultural and Research Institute, Karaikal. ISBN: 978-93-84446-89-5
- Sivasakthi Devi.T and R.Balasubramanian. 2019. "Impact of MGNERGA on household food security in Tamil Nadu" Ed: Pouchepparadjou, L.Umamaheswari and T.Sivasakthi Devi "Ascertaining Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities" Published by PanditJawarharlal Nehru College of Agricultural and Research Institute, Karaikal. ISBN: 978-93-84446-89-5
- Pouchepparadjou, A Shipra Das and T.Sivasakthi Devi. 2019 "Impact of MGNREGA on labour supply and income generation in Tripura" Ed: Pouchepparadjou, L.Umamaheswari and T.Sivasakthi Devi "Ascertaining Food Security Through Livelihood Enriching Interventions: Challenges and Opportunities" Published by PanditJawarharlal Nehru College of Agricultural and Research Institute, Karaikal. ISBN: 978-93-84446-89-5
- Selvaganapathy, M., M.Sundariya and S.Parthasarathi. 2019. *Adaptation Strategies to Climate Change Variations – A Study on Rice Farmers*. Published by Lambert Academic Publishers, Mauritius, ISBN: 978-620-0-27735-1.
- Anitha N, Umamaheswari L, Nasurudeen P. and S.Parthasarathi. 2020. 'Crop diversification: Determinants and its impact on income and employment of farm households in Nagapattinam district of Tamil Nadu', Abstract, *Agricultural Economics Research Review*, Vol 33 (conference no.), pp.170-171.
- Harshavardhini, G., Umamaheswari,L., Nasurudeen, P and S.Parthasarathi, 'Impact of Non-farm Sector on Employment and Income of Rural Households: Empirical Evidence

from Tamil Nadu', Abstract, *Indian Journal of Agricultural Economics*, Vol 75 (4): 2020, p.542.

II. AGRICULTURAL ENTOMOLOGY

Devarassou, K. 2021. Principles of integrated pest management and their applications in field crops. Notion press, India. (ISBN No.: 9781638068402)

Devarassou, K. 2021. Introductory Entomology- Insect Morphology, Anatomy, Physiology and Taxonomy. Notion press. India. (ISBN No.: 9781638508038)

III. AGRONOMY

Narayanan, A.L. 2021. Introductory Agrometeorology. p.149. Brillion Publishing. 22B/5 Ground floor, Desh Bandhu Gupta Road, Karol Bagh, New Delhi 110005. ISBN: 978-93-86658-32-6.

IV. PLANT BREEDING AND GENETICS

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V. PLANT PATHOLOGY AND MICROBIOLOGY

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VI. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

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POPULAR ARTICLES

I. AGRICULTURAL ECONOMICS AND EXTENSION

Selvaraj.S, T.Sivasakthi Devi and T. Sivasankari Devi (2019) “Magathuvam NirainthaVellai Poondur” Nilavalam (Tamil Magazine) pp.16-17.

Popular Articles Published by Dr.S.Anandkumar, Associate Professor (Agricultural Extension) in mainstream media essential for face lifting of the College

Namathu Murasu Daily, Horticulture students distributed free seeds to farmers near Nagapattinam held on 19.11.2019.

The Hindu Daily, Encouraging Production of Vegetable held on 21.11.2019.

NamathuMurasu Daily, Faculty of Agricultural College at Karaikal conducted training for farmers on Bee keeping held on 22.11.2019.

NamathuMurasu, Farm Exhibition by Students of Agriculture College in Karaikal held on 05.12.2019.

Thin Karan Daily, Farm Exhibition by Students of Horticulture held on 06.12.2019

The Hindu (Tamil) Daily, Farm Exhibition conducted by boys and girls of Agriculture College in Karaikal held on 06.12.2019.

ThinaThanthi Daily, Horticulture Exhibition by students of Agricultural College in Karaikal held on 08.12.2019.

Thina Malar Daily, Farm Exhibition by Horticulture students in Karaikal held on 08.12.2019.

New Year Edition of Thina Mani Daily, Farmers becoming Scientists; Achievement of Faculty Member of College, 2020.

These are only suggestive and not exhaustive. As some data base are stuck in college, due to limited database in home, only this much was reported. Such dissemination of

activities of college through main stream media played vital public relations role for face lifting institute's image.

II. AGRONOMY

Narayanan.AL. AIR Live Programme on alternate cropping system. GKMS Newsletter April-June 2020.p.6.

Narayanan.AL. Training to Agricultural Officers.GKMS Newsletter April-June 2020.p.10

Dr. S. Mala



Vijayakumar S, Suchismita Pattanaik and Saravanane P. Low Carbon technologies for agriculture. Sabujima 2021. Volume 29. Page-94-100. Publisher- Plant Lovers Association. ISSN 0972-8562.

Dr. P. Saravanane - Parthenium awareness week 2020



(Dinamnai dated 19.08.2020, Karaikal)

Dr. P. Saravanane - Field day 2020



(Dinamnai dated 02.10. 2020, Karaikal)

III. HORTICULTURE

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Manikandan, M and Aparna Srinivasan and Salvadorabuhroy 2020. Ashwagandha is a magical herb – God send for Ayurveda. Popular Kheti. August (II)

IV. PLANT PATHOLOGY AND MICROBIOLOGY

Jeyalakshmi, C., Shanmuga Priya D, Renuka, R. and C. Rettinassababady 2020. Maa Sagupadiyil maadanthira orunkinantha noi melanmai Vazhimuraikal (Tamil). Sent for publication in Uzhavarin Valarum Velanmai.

BOOKLETS AND TECHNICAL MANUALS

I. AGRICULTURAL ECONOMICS AND EXTENSION

Pouchepparadjou, A., C. Aroutselvam and J. Maruthi, 2019 “Socio-Economic Impact of Farm Mechanization on Agriculture Labour in Cauvery Delta of Tamil Nadu and U. T. of Puducherry”.

Umamaheswari, L and C. Aroutselvam. AEC 201. Production Economics and Farm Management (1+1) (2019), B.Sc(Hons) Agri, 2018-19 batch.

Umamaheswari, L. EXP401. Agricultural Project Analysis (0+5). 2016-17 batch, B.Sc (Hons) Agri.

Swaminathan, N. AEC 301. Agri.Finance, Banking and Co-operation (1+1) for Final B.Sc (Agri) 2016-17 batch.

Swaminathan, N and T.Sivasakthi Devi, Practical Manual AEC 302 Principles of Agri-Business Management (1+1) for Final B.Sc(Agri) 2016-17 batch.

Sivasakthi Devi, T, (2019), Practical Manual, AEC 311: Horti-Business Management (2+1) for III B.Sc (Hort), 2017-18 batch.

Saravanan, S. COM101. Agri-Informatics (1+1) – 2019-2020 Batch

II. AGRICULTURAL ENTOMOLOGY

PG

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Kumar, K.2020. ENT 502 Insect anatomy, physiology and nutrition (2+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry

Kandibane, M. 2020. ENT 504 Classification of insects (2+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry

Kandibane, M. 2020. ENT 505 Insect Ecology (1+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry

- Kandibane, M. 2020. ENT 507 Biological control of crop pests and weed (1+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry
- Kumar, K. 2020. ENT 508 Toxicology of Insecticides (2+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry
- Kumar, K. 2020. ENT 513 Storage Entomology (1+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry
- Kandibane, M. 2020 -21. ENT 510 Principles of Integrated Pest Management (1+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry
9. Kandibane, M. 2020-21. ENT 518 Techniques in plant protection (0+1).PAJANCOA & RI, Karaikal, U.T.of Puducherry.

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- Shanmugapriya, V., Palanivel, S andDevarassou, K. 2020. AEN 312. Insect pests of vegetables, Ornamentals and spice crops (2+1). PAJANCOA & RI, Karaikal, U.T. of Puducherry.

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III. AGRONOMY

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Saravanane, P., Susheela, C.and Poonguzhalan, R., 2020. Manual on Weed Management in Horticultural crops

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Sridevi, V. 2020. Practical manual cum record for crop production (Rice). Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal.

Sridevi, V. 2020. Practical manual cum record for Introduction to major field crops. Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal.

IV. HORTICULTURE

Sundaram, V.2020. HOR 302. Post Harvest Management of Horticultural Crops.

Sundaram, V. and M.Manikandan.2020.HOR 312. Post harvest Technology and value addition of fruits and vegetables.

Sundaram, V. 2020.HOR 101. Fundamentals of Horticulture.

Sundaram, V. 2020. HOR 301. Growth and Development of Horticultural Crops.

Sundaram, V. 2020.VSC 504. Growth and Development of Vegetable Crops.

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Kanthaswamy, V and E.Venkadeswaran. 2021. HOR 211. Production technology for vegetable and spice.

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Shanthi, A. 2020. FSC 102. Tropical and Sub - tropical fruits.

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Shanthi, A. 2020.FLG 202. Ornamental Horticulture

Shanthi, A. 2020.VSC 509. Fundamentals of Processing of Vegetables.

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Shanthi, A. 2020.VSC 502. Production Technology of Warm season Vegetable crops.

Sherly, J 2020. FOR 101. Introductory to forestry.

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Sherly, J 2020. VSC 101. Production technology of tropical and sub-tropical vegetables.

Sherly, J and E.Venkadeswaran. 2020. HEL 401. Nursery production and management.

Sherly, J 2020. VSC 201. Production technology of temperate vegetables.

Sherly, J 2020. HOR 211. Production technology of vegetables and flowers.

Sherly, J 2020. VSC 501. Production technology of cool season vegetable crops.

Marichamy, M.S.2020. HOR 211. Production technology of vegetables and flowers.

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Marichamy,M.S. 2020. VSC 506. Systematics in Vegetable Crops.

V. PLANT BREEDING AND GENEITCS

Ramanadane, T. and P. Pandian. 2020. Genetic purity Maintenance in Paddy seed production farm (In Tamil). Technical Bulletin, 01/2020.

Ramanadane, T., P. Pandian, S. Mala, C. Susheela and AL. Narayanan. 2021. Genetic purity Maintenance in Paddy seed production farm (In Tamil). Technical Bulletin, 02/2021, pp.12.

Krishnan, V. 2020. GPB 301. Breeding Field Crops (2+1)

Krishnan, V. and Pavithra, S.2020. GPB 202. Principles of Plant Biotechnology.

Krishnan, V. 2020.GPB 502 Principles of Cytogenetics (2 + 1)

Nadarajan, S. 2020. CRP101. Fundamentals of Crop Physiology – UG Practical Manual for I Year BSc (Hons). Agri

Nadarajan, S. 2020. CRP111. Introductory Crop Physiology – UG Practical manual for I Year BSc (Hons). Horti.

VI. PLANT PATHOLOGY AND MICROBIOLOGY

Jeyalakshmi, C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 111 Fundamentals of Plant Pathology (2+1)

Jeyalakshmi, C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 101 Fundamentals of Plant Pathology (2+1)

Jeyalakshmi C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 202. Applied Plant Pathology (1+1)

Jeyalakshmi C., Renuka, R.and ShanmugaPriya D.2020 PAT211Mushroom Culture (0+1)

Jeyalakshmi C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 302. Diseases of Horticultural Crops and their Management (2+1)

Jeyalakshmi C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 312 Diseases of Fruits, Plantation, Medicinal and Aromatic Crops (2+1)

Jeyalakshmi C., Renuka, R. and Shanmuga Priya D. 2020. EXP 422 Mushroom Cultivation (0+5)

Jeyalakshmi C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 301. Diseases of Field Crops and their Management (1+1)

Jeyalakshmi, C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 311 Diseases of Vegetables, Ornamentals and Spice Crops

Jeyalakshmi, C., Rettinassababady C. and Shanmuga Priya D. 2020. PAT 211 Diseases of Fruits, Plantation, Medicinal and Aromatic Crops

Jeyalakshmi C. and Renuka, 2021. PAT 422 Mushroom Cultivation (0+5)

VII. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

S. No	Course No	Course Title	Credit hours	Year
B.Sc (Agri) degree programme				
1	SAC 101	Introduction to Soil Science	2 + 1	2020-21
2	SAC 201	Problematic Soils and their Management	1+1	2020-21
3	EXP 416	Farm Advisory on Soil Health, Water Quality and Plant Nutrition	0 + 5	2020-21
4	SAC 301	Manures, Fertilizers and Nutrient Management	2 + 1	2019-20
5	BIC 101	Fundamentals of Biochemistry	1 + 1	2019-20
6	ENS 101	Environmental Studies and Disaster Management	2 + 1	2019-20
B.Sc. (Hort) degree programme				
1	SAC 101	Introduction to Soil Science	2 + 1	2020-21
2	SAC 311	Soil Fertility and Nutrient Management	1+1	2020-21
3	BIC 101	Fundamentals of Biochemistry	1 + 1	2019-20
4	SAC 211	Soil, Plant and Water Analysis	0 + 1	2019-20
5	ENS 301	Environmental Science	1 + 1	2019-20
M.Sc. in Soil Science and Agri. Chemistry – degree programme				
1.	SAC 503	Soil Chemistry	2 + 1	2020- 21
2.	BIC 510	Plant Biochemistry	2 + 1	2020-21

RESEARCH ABSTRACT/ EXTENDED SUMMARY

I. AGRICULTURAL ECONOMICS AND EXTENSION

Priyadharshini, M., L.Umamaheswari, P.Nasurudeen and S.George Paradis, Abstract titled, 'Crop Diversification in Puducherry U.T.' in the International Conference on Recent Trends in Agriculture towards Food Security and Rural Livelihood organized by AIASA and Faculty of Agriculture at Annamalai University during 3-4th Jan 2020, p 151.

Harshavardhini, G and L.Umamaheswari, Abstract titled 'Total Factor Productivity Growth in Major Crops in Tamil Nadu' in the International Conference on Recent Trends in Agriculture towards Food Security and Rural Livelihood organized by AIASA and Faculty of Agriculture at Annamalai University during 3-4th Jan 2020, p 207.

Vidhya, C presented a paper in the International conference on Dynamical Systems, Mathematical Modelling and Computing Techniques in Feb 2019.

Vidhya, C presented a paper on Neural Processing in the Workshop on stochastic process and Applications in Feb 2020.

II. AGRONOMY

Pavithra, M., R. Poonguzhalan, A.L. Narayanan and P. Saravanane. 2020. Effect of Bispyribac sodium on weed management in Aerobic rice. 1st Indian Rice Congress – 2020 on "Rice research and development for achieving sustainable development goals, ICAR-NRRI, Cuttack India during 08-09 December 2020. 546-547

Saravanane P, K. Pooja and S. Vijayakumar. 2020. Weed management practices for different cultivars in dry direct-seeded rice. 1st Indian Rice Congress – 2020 on "Rice research and development for achieving sustainable development goals, ICAR-NRRI, Cuttack, India during 08-09 October 2020. 536-537

III. HORTICULTURE

Kanthaswamy, V and E. Venkadeswaran. 2021. Studies on organic farming in coriander [*Coriandrum sativum* (L.)] - radish [*Raphanus sativus* (L.)] cropping sequence in coastal region of Karaikal. International Symposium on Coastal Agriculture: Transforming Coastal Zone for Sustainable Food and Income Security, Indian Society of Coastal Agricultural Research (ISCAR), Canning Town, West Bengal, India, p 75.

Venkadeswaran, E., P. Irene Vethamoni, T. Arumugam, N. Manivannan, S. Harish, R. Sujatha and E. A. Rani. 2020. Performance of F₁ hybrids in cherry tomato [*Solanum lycopersicum* (L.) var. *cerasiforme* Mill.] for yield and quality. Proceedings of 6th Agricultural Graduate Students Conference 2020 on Multi-Dimensional Approaches in Transforming Agriculture, Crop Productivity Enhancement: Integrating Breeding and Crop Management, School of Post Graduate Studies, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India, p. 200. ISBN: 9-789388-993302.

IV. PLANT BREEDING AND GENETICS

Gnaneswari, V.M., V. Krishnan., S.Thirumeni.,J.Karthick and N.Mathivanan. Genetics of tillering habit in rice (*Oryza sativa* L.).2020. *Proceedings of UGC SAP National seminar on “Climate smart agriculture for sustaining crop productivity and improving livelihood security”* held on 27th and 28th February, 2020 at Annamalai University.

Rajan Isha Pearl., S.Thirumeni., J,Karthick and N. Mathivanan. Studies on inheritance of salt tolerance in rice using higher statistics.2020. *Proceedings of UGC SAP National seminar on “Climate smart agriculture for sustaining crop productivity and improving livelihood security”* held on 27th and 28th February, 2020 at Annamalai University.

Shanalin,J., V.Vengadessan., S.Thirumeni., J.Karthick and N.Mathivanan. Genetic studies on the inheritance of plant height in rice.2020.*Proceedings of UGC SAP National seminar on “Climate smart agriculture for sustaining crop productivity and improving livelihood security”* held on 27th and 28th February, 2020 at Annamalai University.

- Vijayastri.R., V.Vengadessan., S.Thirumeni., J.Karthick and N.Mathivanan. Genetics of some qualitative traits in rice (*Oryza sativa* L.).2020. *Proceedings of UGC SAP National seminar on “Climate smart agriculture for sustaining crop productivity and improving livelihood security”* held on 27th and 28th February, 2020 at Annamalai University.
- Yoglakshmi,C., S.Thirumeni., J.Karthickand N.Mathivanan. Inheritance of flowering time in Rice.2020. *Proceedings of UGC SAP National seminar on “Climate smart agriculture for sustaining crop productivity and improving livelihood security”* held on 27th and 28th February, 2020 at Annamalai University.
- Shanalin,J., and V.Vengadessan. 2020. Characterization of salt responsive CIPK genes in rice (*Oryza sativa* L.). International E-Conference Biotechnology and Crop Improvement, 26-Nov-2020
- Nalishma Raghu and Nadaradjan, S.,2020. Salicyclic acid: A phenolic antioxidant to overcome drought stress in rice seedlings. Poster presented in International E-conference on “Advances and future outlook in Biotechnology & Crop improvement for sustainable productivity” organised by Department of Biotechnology & Crop Improvement, College of Horticulture, UHS campus, Bengalure, Karnataka on 24-27th November, 2020.
- Nadaradjan, Sand Nalishma Raghu, 2020. ‘Screening of rice genotypes for Flash flood tolerance at early seedling stage’ Poster presented in International Plant Physiology Virtual Conference entitled ‘Prospects of Plant Physiology for Climate Proofing Agriculture’ organized by Sher-e-Kashmir University of Agricultural Sciences & Technology, Jammu & Indian Society for Plant Physiology (ISPP), New Delhi on 6-7 December 2020.
- Tinu Thomas and Nadaradjan, S. 2020. ‘Biochemical parameters based screening of rice genotypes for seedling stage salinity tolerance’.Oral presentation in International Plant Physiology Virtual Conference entitled ‘Prospects of Plant Physiology for Climate Proofing Agriculture’ organized by Sher-e-Kashmir University of Agricultural Sciences & Technology, Jammu & Indian Society for Plant Physiology (ISPP), New Delhi on 6-7 December 2020.

V. PLANT PATHOLOGY AND MICROBIOLOGY

- Rettinassababady C., Shanmuga Priya, D. and C. Jeyalakshmi 2020. Significance of Post-Harvest losses of fruits and vegetables. In: E- proceedings of the Virtual national conference on food microbiology organized by Indian Institute of Food Processing Technology, Thanjavur from 5th to 6th October 2020, p15.
- Shanmuga Priya D, Jeyalakshmi, C. and C. Rettinassababady 2020. Kaikari payirkalil thontrum noigalum avatrai kattupaduthum muraigalum (Tamil). In E. proceedings of the M.S Swaminathan Research Foundation Agricultural Science Tamil congress held at M.S Swaminathan Research Foundation, Chennai (Under press).

VI. SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

- Mahesan, V.R., and U. Bagavathi Ammal. 2020. Investigation on enzymatic activity of varying fertilizer doses and STCR-IPNS on bahour soil series of Puducherry. Poster presented in International conference on “Frontiers in sustainable agriculture and biological sciences” held at Periyar University from 16.3.20 to 17.3.20.
- Krithika, C., Omar Hattab, K., Bagavathi Ammal, U., and R. Rajakumar. 2021. Exploring nutrient prescription techniques for sustaining rice productivity in coastal ecosystem [abstract]. In: Sarangi, S. K., Mahanta, K.K., Raut, S., Bhutia, R. N., and Prakash, N. R. (Eds.). Book of Abstracts, International Symposium on Coastal Agriculture: Transforming Coastal Zone for Sustainable Food and Income Security, 16 - 19 March, 2021. Indian Society of Coastal Agricultural Research, ICAR-Central Soil Salinity Research Institute, Regional Research Station, Canning Town – 743 329, West Bengal, India, p. 49. Abstract No. T1S2ORAL02.
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X. FARM ACTIVITIES

X. FARM ACTIVITIES

DEPARTMENT OF AGRONOMY

FARM PRODUCE RECEIPTS 2020-21

Sl. No.	Item	Unit	East farm	West farm	Horticulture farm	Total
1	Coconut	Nos.	361	-		
2	Tender coconut	Nos	23	-		
3	Banana Leaf	Nos	30	-		
4	Dried coconut fronds	Nos	170	-		
5	Mixture Paddy	Kg	1730	-		
6	Paddy- ADT 45	Kg	1286	-		
7	Paddy-TKM 13	Kg	1745	-		
8	Jackfruit (whole)	Kg	220	-		
9	Mango (Bangalora)	Kg	118.5	-		
10	Mango (Other varieties)	Kg	25	-		
11	Banana (Peyyan)	Kg	9.5	-		
12	Banana (others)	Kg	7	-		
13	Sapota	Kg	1.5	-		
14	Eggs	Nos.	452	-		
15	Moringa pod	Kg	47.25	-		
16	Firewood	Kg	620	-		
17	Black gram (ADT 6)	Kg	71	-		
18	Green gram	Kg	0.5	-		
19	Greens	Kg	1.5	-		
20	Dry coconut spathe	Nos	19	-		

21	Paddy- ADT 51	Kg	110	-		
22	Paddy- CR1009	Kg	3372	-		
23	Daincha	Kg	4	-		
24	Sunnhemp	Kg	1	-		
25	Paddy- ASD 16	Kg	16	-		
26	Paddy- ADT 46	Kg	6039	-		
27	Paddy- White Ponni	Kg	3965	-		
28	Paddy-Kichilli Samba	Kg	55	-		
29	Paddy-Mappillai Samba	Kg	35	-		
30	Paddy-Kattukuthalam	Kg	15	-		
31	Paddy-Sivappu Kavuni	Kg	30	-		
32	Paddy-Karuppu Kavuni	Kg	40	-		
33	Paddy-Jeeraga Samba	Kg	35	-		
34	Paddy-Kuzhiyadichan	Kg	30	-		
35	Paddy-Kattu Samba	Kg	38	-		
36	Paddy-CR 1009 Sub	Kg	6594	-		
37	Paddy-BPT 5204	Kg	12383	-		
38	Paddy-Thanga Samba	Kg	70	-		
39	Paddy-Sivappu Serumani	Kg	100	-		
40	Paddy-Kadai Kaluthan	Kg	70	-		
41	Paddy-Kattu Yanam	Kg	75	-		
42	Paddy-Kalyana Samba	Kg	85	-		
43	Paddy-Mappillai Samba	Kg	12	-		
44	Guinea grass	No's	1500	-		
45	Fish (carp)	Kg	6	-		

PURCHASE OF INPUTS

Sl. No.	Item	Unit	Quantity	Cost (Rs.)
Seeds				
1	Green gram	Kg	3.0	225.0
2	Finger millet	Kg	3.0	180.0
3	Kolinji Seed	Kg	2	700
4	Naripayaru seed	Kg	5	650
5	Sesame seed (TMV 7)	Kg	3	600
6	Cotton seed (Surabhi)	Kg	2	500
Manures/Fertilizers				
1	Urea	Kg	1350	8435
2	DAP	Kg	1500	34285.80
3	MOP	Kg	2000	18000
4	Vermi compost	Kg	32	480
5	Neemcake	Kg	500	17500
Growth regulators				
1	Humic Acid –Granules (Aboorva)	Kg	48	1620
2	Mepiquat chloride (Chambatkar)	ML	100	155
Herbicides				
1	Bensulfuron Methyl 0.60 % + Pretilachlor 6 %GR	Kg	60	16200
2	Pyrazosulfuron + Pretilachlor 6 %GR	Kg	60	15750
3	24 D salt	Kg	1	480
4	Bispyribac sodium	Lit	2	17200
5	2,4 D amine	Lit	0.5	180
6	2,4D ethyl ester	Lit	0.5	350
7	Propaquizafop+Imazethapyr	Lit	0.25	200

Sl. No.	Item	Unit	Quantity	Cost (Rs.)
Insecticides/fungicides				
1	Profenofos 50% EC	Lit	1	780
2	Thiamethoxam 25 %WG (MANTRA)	Kg	0.25	580
Others/miscellaneous				
1	Diesel	Lit	1880.53	164910
2	Petrol	Lit	30.16	2450
3	2T oil	Lit	6.06	1330
4	SKM poultry feed	Kg	20	600
5	Hand sanitizer	Lit	0.5	240
6	Pure handwash	Lit	0.5	180
7	Mask	Nos.	80	960
8	RVC foot valve	Nos.	1	354
9	4" GI hose cables	Nos.	1	230
10	4" GI hose clamps	Nos.	2	342
11	Gunny bags (Jai Krishna & Co, Chennai)	Nos	200	14800
Transport				2000
GST				3380.62

FARM SALES

Month	Cash Sales (Rs.)	Credit sales (Rs.)	Total (Rs.)	Month	Cash Sales (Rs.)	Credit sales (Rs.)	Total (Rs.)
April '20	846	0	846	October '20	4075	0	4075
May '20	3683	0	3683	November '20	4702	0	4702
June '20	5287	0	5287	December '20	7498	0	7498
July '20	787	0	787	January'21	4055	0	4055
August '20	2591	0	2591	February'21	5782	0	5782
Sep'20	2508	0	2508	March'21	12782	130000	142782
Total					54596	130000	184596

Expenditure and revenue details of Livestock Farm for 2020-2021

(1)DAIRY FARM:

Particulars	Apl. 20	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan'21	Feb	Mar	Total
Expenditure													
<u>Feed Purchase</u>													
Cattle feed Quantity (Kg)	700	700	840	1050	1050	1050	1050	1050	1050	1050	700	700	10990
Cattle feed Amount (Rs.)	16,450	16,590	19,740	24,675	24,675	24,675	24,675	24,675	24,675	24,675	16,450	16,750	2,58,405
Revenue - <u>By Milk sales</u>													
Quantity (litres) to hostel	-	-	-	-	-	8.000	126.500	116.000	307.500	478.000	632.700	634.200	2302.900
Amount (Rs)	-	-	-	-	-	352	5,566	5,104	13,530	21,032	27,839	27,905	1,01,328
Quantity (litres) to society	-	-	-	-	299.800	36.500	-	-	-	-	-	-	336.300
Amount (Rs)	-	-	-	-	9893	1205	-	-	-	-	-	-	11,098
Quantity (litres) to public	513.200	676.950	658.500	1,073.90	748.750	784.550	629.550	477.800	364.850	191.300	-	-	6119.350
Amount (Rs)	22,581	29,787	28,974	47,253	32,945	34,522	27,702	21,026	16,056	8,419	-	-	2,69,251
Total milk (litres)	1091.700	1011.500	930.200	986.500	869.000	726.700	646.400	597.900	597.300	598.250	540.900	552.200	8,758.550
Total milk sales (Rs)	38,434	36,414	33,487	37,487	30,184	31,975	28,053	26,308	26,281	26,323	23,800	24,296	3,81,677.00
Sale of once used nylon feed bag													1,400.00
Total Revenue from Dairy farm													3,83,077.00

2. POULTRY FARM:

1. Purchases

For Broilers			
Broilers batch III			
1	Broiler chicks	200 nos	Rs. 10,100
2	Broiler prestarter feed	2 bags	3,240
3	Broiler starter feed	4 bags	6,680
3	Broiler finisher feed	3 bags	5,010
Total Amount (Rs.)			25,030

2. Receipt of produce

Particulars	Quantity	Amount (Rs.)
Broilers Batch III Sales (to public)	268.350 kg	40,253
Total revenue from Poultry farm		Rs. 40,253

Total expenditure for the Livestock Unit Rs. 2, 83, 435.00

Total Revenue from the Livestock Unit Rs. 4, 23,330.00

DEPARTMENT OF HORTICULTURE

Particulars	Summer (Apr-May)	Adipattam (June-July)	Samba (Aug-Sept)	Thalady (Oct-Jan)	Thaipattam (Jan-Mar)	Total
RESEARCH						
PG STUDENTS RESEARCH TRIAL						
Lablab (C ₁)	-	15 cents	-	-	10 cents	25 cents
Winged bean	-	10 cents	-	-	30 cents	40 cents
Bitter gourd (C ₁)	-	15 cents	-	-	10 cents	25 cents
Pumpkin (East Farm)	-	15 cents	-	-	-	15 cents
Pumpkin (C ₁)	-	-	-	-	20 cents	20 cents
Tomato	-	-	-	-	7 cents	7 cents
Chillies	-	-	-	-	6 cents	6 cents
CROP PRODUCTION						
Coriander	-	-	2 cents	-	-	2 cents
Amaranthus	4 cents	-	-	-	-	4 cents
Radish	-	3 cents	-	-	-	3 cents
Ribbed gourd,	-	5 cents	-	-	-	5 cents
Cluster bean	-	2 cents	-	-	-	2 cents
Snake gourd	-	3 cents	-	-	-	3 cents
Radish	-	-	2 cents	-	-	2 cents
Amaranthus	4 cents	-	-	-	-	4 cents
Chillies	-	-	-	-	12 cents	12 cents
Brinjal (C ₂)	-	-	-	-	10 cents	10 cents
UAL RESEARCH TRIAL						
Bhendi	-	-	-	-	3 cents	3 cents

Particulars	Summer (Apr-May)	Adipattam (June-July)	Samba (Aug-Sept)	Thalady (Oct-Jan)	Thaipattam (Jan-Mar)	Total
Brinjal	-	-	-	-	3 cents	3 cents
Bhendi	-	-	-	-	3 cents	3 cents
ICAR TRIAL						
Bhendi	-	-	-	-	2 cents	2 cents
Pumpkin	-	-	-	-	3 cents	3 cents
Bottle gourd	-	-	-	-	3 cents	3 cents
Coriander	-	-	-	-	3 cents	3 cents
Sponge gourd	-	-	-	-	10 cents	10 cents
Ribbed gourd	-	-	-	-	10 cents	10 cents
FERTIGATION AREA						
Water melon	-	-	-	-	5 cents	5 cents
Lablab	-	5 cents	-	-	-	5 cents
Bottle gourd	-	-	-	-	6 cents	6 cents
Radish	-	1 cent	-	-	-	1 cent
Snake gourd	-	-	-	-	6 cents	6 cents
Bitter gourd	-	-	-	-	6 cents	6 cents
Ribbed gourd	-	-	-	-	6 cents	6 cents
Amaranthus	-	-	-	-	15 cents	15 cents
Radish	-	-	-	-	5 cents	5 cents
FARM AREA						
Pumpkin	-	-	-	-	5 cents	5 cents
Cluster bean	-	2 cents	-	-	-	2 cents
Moringa	-	5 cents	-	-	-	5 cents
Bhendi	-	-	-	-	15 cents	15 cents
Lab lab	-	-	-	-	8 cents	8 cents

Particulars	Summer (Apr-May)	Adipattam (June-July)	Samba (Aug-Sept)	Thalady (Oct-Jan)	Thaipattam (Jan-Mar)	Total
Cluster bean	-	-	-	-	7 cents	7 cents
Brinjal	-	-	-	-	13 cents	13 cents
Tapioca	-	-	-	-	10 cents	10 cents
Casuarina trees	-	-	-	-	10 cents	10 cents
Pomegranate plants	-	-	-	-	1 cent	1 cent
Poovarasu trees	-	-	-	-	100 cent	100 cent
Sub total	8 cents	81 cents	4 cents	-	363 cents	456 cents

FARM PRODUCE RECEIPTS IN HORTICULTURE FARM

Farm Produce	Quantity (Kg) / No.
Aonla (Rs.20)	106
Acidlime (Rs.2)	5
Aonla layer (Rs.50)	1
Amaranthus (Rs.20)	1
Banana culinary purpose (Big) (Rs.5)	39
Banana culinary purpose (Medium) (Rs.3)	530
Banana flower (Rs.5)	55
Banana leaves (Rs.3)	325
Banana fruits (Rs.20)	45.75
Banana sucker (Rs.15)	34
Banana plantain (Rs.300)	1
Brinjal Seedlings (Rs.1)	3855
Brinjal seedlings (Poly bag) Rs.5	10
Brinjal (Rs.20)	383.25
Bhendi (Rs.20)	338.50

Farm Produce	Quantity (Kg) / No.
Bittergourd (Rs.20)	50.15
Bottle gourd (Rs.10)	21
Coconut (Rs.10)	12
Coconut (Rs.12)	286
Coconut (Rs.15)	10
Coconut seedlings (Rs.50)	119
Chilli Seedlings (Rs.1)	1683
Cluster bean (Rs.20)	38.25
Cluster bean seed (Rs.10)	12.45
Custard apple (Rs.20)	10.50
Cucumber (Rs.20)	6
Dry Coconut frond (Rs.1)	377
Coconut spathe (Rs.1)	40
Chillies (Rs.20)	109.75
Greens (Rs.20)	89.50
Grass bundle (Rs.5)	238
Guava layer (Rs.50)	3
Guava fruit (Rs.25)	4
Jack fruit (Aril alone) (Rs.60)	1.50
Jack fruit (whole) (Rs.20)	9
Kendai (Rs.122)	350.50
Lablab (Rs.20)	0.25
O.Plant (Rs.20)	703
O.Plant (Rs.25)	35
O.Plant (Rs.30)	181
O.Plant (Rs.35)	4
O.Plant (Rs.40)	1

Farm Produce	Quantity (Kg) / No.
O.Plant (Rs.100)	3
Pumpkin (Rs.10)	65.50
Mango var. Neelum & Bangalora (Rs.20)	1520
Mango var. Sindura (Rs.30)	47
Mango other varieties (Rs.40)	413
Mango graft (Rs.60)	1
Mango seedlings (Rs.30)	12
Moringa plant in polybag (Rs.30)	10
Moringa plant in polybag (Rs.20)	73
Moringa pod (Rs.20)	3.50
Medicinal plant (Rs.20)	33
Medicinal plant (Rs.50)	1
Korenan grass (Rs.15)	4
Papaya plant (Rs.30)	3
Papaya fruit (Rs.20)	7.20
Pumpkin (Rs.10)	11
Pumpkin seeds (Rs.20)	3.25
Sapota graft (Rs.50)	34
Sapota graft (Rs.60)	19
Sapota fruit medium size (Rs.20)	5.50
Sapota fruit big size (Rs.25)	2670
Sponge gourd (Rs.5)	12
Sour orange (Rs.5)	14
Snake gourd (Rs.20)	0.50
Snake gourd seed (Rs.200)	0.51
Ribbed gourd (Rs.20)	90.65
Ridge gourd seed (Rs.200)	0.10

Farm Produce	Quantity (Kg) / No.
Radish (Rs.20)	15
Tomato Seedlings (Rs.1)	330
Tomato fruits (Rs.20)	11.50
Tamarind pod (Rs.15)	47
Tree seedlings (Rs.30)	2
Tree Seedlings (Rs.25)	41
Tree twigs (Rs.3)	81
Tree firewood (Rs.1)	4231
Tender Coconut (Rs.15)	278
Tapioca (Rs.20)	101.25
Tilepea (Rs.63)	174
Tilepea (Rs.80)	10.25
Viral (Rs.355)	6.50

PURCHASE OF INPUTS

Sl.No.	Items	Unit	Quantity	Amount (Rs.)
I. Seeds/Seedlings/Fingerlings				
1.	Bhendi		1.30 kg	2133.00
2.	Amaranthus		2.75 kg	680.00
3.	Snake gourd		300 g	950.00
4.	Chilly		130 g	1470.00
5.	Tomato		60 g	400.00
6.	Brinjal		210 g	695.00
7.	Bitter gourd		155.45 g	1010.00
8.	Wartermelon		50 g	380.00
9.	Cluster bean		1.10 kg	1100.00
10.	Coriander		10 g	30.00
11.	Radish		580 g	191.00
12.	Ridge gourd		350 g	1400.00
13.	Pumpkin		600 g	1160.00
14.	Lablab		2.55 kg	1290.00
15.	Palack seed		130 g	70.00
16.	Sunhump seed		20 kg	1500.00
17.	Bottle gourd		250 g	1300.00
II. Diesel				
1.	Diesel		703.71 lit	54,500.00
III. Fertilizers/ Manures				
1.	Vermicompost		200 kg	4000.00
2.	Azospirillum		31 kg	1240.00
3.	Phospobacteria		29 kg	1300.00
4.	VAM		2 kg	1120.00

Sl.No.	Items	Unit	Quantity	Amount (Rs.)
5.	Coconut micronutrient		75 kg	7500.00
6.	Organic manure		8 kg	400.00
7.	Neem cake		20 kg	600.00
8.	19:19:19		13 kg	1590.00
9.	Super		1000 kg	9550.00
10.	Potash		1000 kg	18250.00
11.	D.A.P		350 kg	9150.00
12.	Urea		1125 kg	6851.00
IV. Herbicides				
1.	Glyphosate		1300 g	975.00
V. Insecticides/Organic pest repellent				
1.	Monocrotophos		1 lit	520.00
2.	Chlorpyriphos		11 kg	550.00
3.	Chlorpyriphos		100 ml	875.00
4.	Profenophos		800 ml	770.00
5.	Rogor		750 ml	500.00
6.	Coragen		160 ml	2220.00
7.	Temprid		300 ml	570.00
8.	Blue copper (COC)		1750 g	1294.00
9.	Lingavet agent		250 ml	50.00
10.	Chlorpyriphos		2350 ml	2140.00
11.	Carbofuran		5 kg	550.00
12.	Fame		50 ml	1000.00
13.	Omite		300 ml	450.00
14.	Thyomethoxom		500 g	980.00
VI. Bio fertilizer				
1.	Carbendazim +		250 ml	180.00

Sl.No.	Items	Unit	Quantity	Amount (Rs.)
	Mancozeb			
2.	Pseudomonas		17 kg	1520.00
3.	Pseudomonas		1000 ml	640.00
4.	Tricoderma		12 kg	340.00
5.	Fish oil		250 ml	120.00
6.	Multimicronutrient		1125 ml	400.00
7.	Crop booster		450 ml	380.00
8.	Fipronil		250 ml	350.00
9.	Bio composter		500 ml	140.00
10.	Amino acid (Crop Booster)		750 ml	1050.00
11.	Bavistin		250 g	250.00
12.	Sea weed Extract		1 No	280.00
13.	Amino acid		1 kg	240.00
14.	Amino acid		20 kg	350.00
15.	Emamectin benzoate		200 g	880.00
16.	Neem oil		100 ml	190.00
17.	Mancozeb		500 g	340.00
VII. Growth Regulators				
1.	Ethrel		100 ml	480.00
VIII.Plant				
1.	Coconut seedlings		40 No	2000.00
2.	Sapota graft		40 No	1600.00
3.	Guava layer		265 No	15950.00
4.	Jack graft		30 No	1500.00
5.	Mango graft		20 No	1200.00
6.	Pomegranate plant		30 No	750.00

Sl.No.	Items	Unit	Quantity	Amount (Rs.)
VIX .Others				
1.	Spawner tools		2 No	159.30
2.	Pruning knife		12 No	8400.00
3.	Pick Axe		3 No	1144.00
4.	Tractor service		-	18340.00

FARM SALES

REVENUE FOR THE PERIOD FROM APRIL 2020 TO MARCH 2021

Sl.No.	Months	Cash sales (Rs.)	Credit sales (Rs.)	Total (Rs.)
1.	April 2020	51,437.00	-	51,437.00
2.	May 2020	30,225.50	-	30,225.50
3.	June 2020	35,508.50	-	35,508.50
4.	July 2020	30,808.00	-	30,808.00
5.	August 2020	6,158.00	-	6,158.00
6.	September 2020	3,633.00	-	3,633.00
7.	October 2020	2,547.00	-	2,547.00
8.	November 2020	60,260.00	-	60,260.00
9.	December 2020	4,568.00	1,480.00	6,048.00
10.	January 2021	1,677.00	-	1,677.00
11.	February 2021	14,730.50	3,240.00	17,970.50
12.	March 2021	18,959.00	-	18,959.00
Total				2,65,231.50

Monthwise weather data from April, 2020 to March, 2021																	
Month	Mean Max temp (deg.C)	Mean Min temp (deg.C)	Mean Grass Min (deg. C)	Mean RH I (%)	Mean RH II (%)	Average wind velocity kmph	Total sunshine day hours	Total Evaporation (mm)	Total Rainfall (mm)	Rainy days	Total Dew fall (mm)	Dew days	Mean Soil Temperature (deg.C)				
													5 cm	10 cm	15 cm	20 cm	30cm
April (2020)	34.8	25.8	23.6	85	57	5.4	281.90	281.90	281.90	281.90	281.90	281.90	40.3	39.2	38.1	38.1	38.0
May	36.8	27.6	25.4	82	56	6.0	249.88	249.88	249.88	249.88	249.88	249.88	39.5	38.7	38.1	38.2	38.3
June	37.4	27.0	23.8	74	47	7.4	219.62	219.62	219.62	219.62	219.62	219.62	38.5	37.6	37.6	37.8	37.8
July	35.2	25.8	23.0	82	55	6.0	158.88	158.88	158.88	158.88	158.88	158.88	36.7	36.2	35.8	35.8	36.3
August	35.0	25.8	21.6	81	57	5.8	222.28	222.28	222.28	222.28	222.28	222.28	36.6	35.9	35.6	35.4	35.2
September	33.9	25.2	22.6	84	64	5.0	137.16	137.16	137.16	137.16	137.16	137.16	35.7	35.2	35.0	35.0	35.4
October	33.9	25.3	22.1	83	60	3.8	203.32	203.32	203.32	203.32	203.32	203.32	35.9	35.3	35.0	35.0	35.3
November	31.1	24.1	21.1	92	74	3.7	168.70	168.70	168.70	168.70	168.70	168.70	31.3	31.2	30.3	31.4	32.1
December	28.5	22.5	19.0	93	81	4.0	117.8	117.8	117.8	117.8	117.8	117.8	28.3	28.1	28.3	28.4	28.9
January (2021)	29.1	22.7	19.5	92	77	3.7	167.94	167.94	167.94	167.94	167.94	167.94	29.9	29.5	29.4	29.5	29.8
February	30.2	20.7	18.1	90	61	4.1	237.76	237.76	237.76	237.76	237.76	237.76	33.7	32.9	32.6	32.7	33.0
March	32.4	23.0	18.0	90	58	3.8	278.48	278.48	278.48	278.48	278.48	278.48	37.8	36.4	35.8	36.1	36.0
Average	33.2	24.6	21.5	85.7	62.3	4.9	*	*	*	*	*	2443.72	35.4	34.7	34.3	34.5	34.7
Total	*	*	*	*	*	*	2443.7	2443.7	2443.7	2443.7	2443.7	2443.7	*	*	*	*	*

