

TAMIL NADU AGRICULTURAL UNIVERSITY

PROCEEDINGS

4th Annual Scientists' Meet on Production Oriented Projects 2021 (June 18, 2021)

Lead Centre

Directorate of Agribusiness Development
Tamil Nadu Agricultural University
Coimbatore 641 003

Directorate of Research

Tamil Nadu Agricultural University
Coimbatore 641 003

2021

PROCEEDINGS
4th Annual Scientists' Meet on Production
Oriented Projects 2021
(June 18, 2021)

The 4th Scientists' Meet on Production oriented Projects was held on 18.6.2021 involving scientists handling Venture Capital Scheme, University Revolving Fund Schemes, ICAR Revolving Fund Seed Production and GOI Seed Hubs etc. **Dr. N. Kumar**, Vice Chancellor, TNAU, appreciated scientists who get involved in revenue generation that helps the university and the Department which host VCS / RFs in meeting the expenditure towards infrastructure on recurring expenses. **Dr. K.S. Subramanian**, Director of Research indicated that more numbers of VCSs have been inducted in the past one year and the revenue generation from VCSs and RFs has been increased Rs. 865 lakhs to 950 Lakhs during 2020-2021 and a net gain of Rs. 85 Lakhs despite pandemic and frequent lockdowns. **Dr. SD. Sivakumar**, Director (Agri-Business) presented the Action taken Report on the Third Scientists Meet on Production Oriented Projects held during 2020. **Dr. S. Geetha**, Director (CPBG), **Dr. S. Sundareswaran**, Director (Seeds), **Dr. R. Santhi**, Director (DNRM), **Dr. L. Pugalendi**, Dean (Horticulture) presented the VCSs and RFs schemes with respect to their Directorate / Colleges. In the concluding remarks, the Vice Chancellor appreciated all the scientists for their role in revenue generation. Dr. Shantha Sheela, Associate Professor (Agrl. Extension) proposed a formal vote of thanks.

The proceedings of the meet are furnished below

A. Venture Capital Schemes

- I. Introduction
- II. Action Taken Report
- III. VCS Activities at DABD
- IV. Observation of VCS 2020 - 2021
- V. VCS Analysis
- VI. Action Plan 2021 - 2022

B. Revolving Fund

- I. Directorate of Centre for Plant Breeding and Genetics
- II. Seed Centre
- III. Horticulture College & Research Institute
- IV. TNAU RFs

C. Closing Remarks and Way Forward

D. Annexure

- I. Detailed Review report of Venture Capital Schemes (VCS) operated in TNAU (Annexure I)
- II. College / Station-wise split-up details of VCS (Annexure II)
- III. List of VCS inputs available in stations / departments (Annexure III)
- IV. Product wise analysis of VCS (Annexure IV - A)
- V. Analytical Services, Training and Other Components (Annexure IV - B)

A. VENTURE CAPITAL SCHEMES

I. Introduction

The Venture Capital Schemes (VCS) were initiated in the year 2003. About 175 Venture Capital Schemes have been operating during 2020-21. About 287 inputs, products (257) / analytical services (7) / training (8) and other components (15) are provided through the Venture Capital Schemes.

Objectives of the VCS

- To provide farmers with quality agricultural inputs like seeds, seedlings, grafts, vermicompost, bio fertilizers, biocontrol agents, coconut tonic etc., and enable them to adopt TNAU technologies
- To operate model units for managerial skill and entrepreneurship development among the students
- To provide training to farmers, rural youth, agricultural labourers and farm women for self-employment
- To generate revenue to the University through sale of products / services

Major ongoing activities

- **Seeds / seedlings:** agricultural / horticultural / forestry
- **Nutrients:** Vermicompost, Bio-fertilizers, WSF, Micronutrients, Crop boosters
- **Bio control agents**
- **Fodder production and Animal husbandry**
- **Agricultural machineries and equipment:** Custom hiring
- **Services:** Analytical, advisory and hiring services
- **Entrepreneurship Development:** Capacity Building Programmes in Food processing, Bee keeping and Mushroom etc.
- **Food Products:** Processed products, Mushroom, Honey

II. Action taken report

S.No	Remarks of Last Meet	Action Taken 2020-21
1	Few VCS products should find a place in University Calendar	Next year, photos of Crop Boosters and Bio control agents will be included
2	Thadiyankudisai VCS V60 BA Production of biocontrol agents viz., <i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i> production may be closed and buy biocontrol agents produced by HC&RI, Periyakulam and sell to farmers based on demand	Due to inclusion of transport cost not able to sell at uniform price fixed by the University
3	V60GJ - "Mass production of bio-control agents, seedlings, value added products and training", CRS, Veppanthattai may be with held for the time being and they can sell biocontrol agents produced from other TNAU stations	Scheme revived during March 2021 and the VCS may be continued
4	The information on the availability of VCS products may be advertised through Valarum velanmai, TNAU Agri portal and melas conducted by Research stations, Krishi Vigyan Kendra, Colleges and through concerned state departments of Government of Tamil Nadu	Uzhavarin Valarum Velanmai - 2 Newspaper - 18 AIR / Community Radio talks - 16 TV programmes - 4 Youtube Channel - 2 Whatsapp group - 5 Handouts - 2 Awareness Program - 29
5	Product promotional activities may be conducted through DABD to reach large section of people.	Will initiate the online marketing of VCS products
6	The VCS Software developed may be improved taking care of requirements of all VCS and the final version may be presented to the UOs within a fortnight. On approval, VCS software can be released for adoption	Feedback obtained from the PIs regularly and updated based on their requirements
7	The Performance of VCS which generates revenue below Rs.2 lakhs has to be improved. The Heads of Depts/stations and PI are requested to introduce measure to improve the revenue	Total Revenue below Rs. Two lakhs during 2019-20 was 54 Schemes. Out of this 54 schemes this year (2020-21), 46 schemes revenue has increased more than two lakhs

8	The cost of production of products / analysis has to be worked out. The methodology for estimating the cost of production will be provided by DABD	Work in progress
9	The sale price of the same products (same quality) produced in all VCS should be uniform across all VCS and it could be compared with the selling prices of State Government Department, If necessary a committee may be formed to discuss the anomaly between TNAU sale price and State Department sale price and suggest means to moderate TNAU sale price accordingly.	Price fixation has been revised based on a. Cost of Production+Cost of marketing + 25% margin = Selling price b. Selling price of TNAU products and services must be compared with the price of competing firms and organizations i. A suitable selling price may be fixed. The difference between competitors price and TNAU may not be more than 25%. The TNAU price less than the private firms. c. Price of TNAU product / services = Sale Price + GST (as applicable) No Round off.
10	Students VCS is accepted in principle. The guidelines for Student VCS may be formulated and circulated among UOs for suggestions. Possibility of finding students VCS under IDP may be examined	After revival of normalcy students VCS will be implemented
11	Awards may be given separately for best VCS under three broad categories – production, analysis and training	Awards under these three categories were selected 1. Production – V60CW - HRS, Ooty. 2. Analysis – V60HB – Dept. of Nano. Tech, TNAU. 3. Training – V60AI – TNAU Information Centre, Chennai.
12	RA, SRF, Teaching Asst may be avoided under VCS	RA, SRF, Teaching Asst not recruited for VCS
13	The returns per rupee invested in each VCS may be worked out	Worked out. Since investment was low and made many years ago, the returns are manifold
	DR Remarks	
14	Infuse consultancy service	After revival of normalcy consultancy services will be infused
15	Organize regular business meets	After revival of normalcy business meets will be organized

III. VCS Activities at DABD, TNAU

1. Twenty six New proposal were obtained from various colleges and research stations and sent to scrutinizing committee. After approval of the VCS by the University, Administrative Sanction Orders were issued and guidelines were issued for obtaining seed money.
2. Five proposals for strengthening existing VCS were obtained and after approval of the University, guidelines were issued for obtaining extra seed money.
3. Budget Estimate for the financial year of 2020-21 was obtained from the PIs and after verification the budget was consolidated and sent to Comptroller for Finance Committee approval. After approval, it was communicated to the respective PIs.
4. Budget Re-Appropriation proceedings was given after approval of the University through proper channel
5. Proceedings issued for the engagement of personnel (Retired PUSM / Renewal of Contractual workers)
6. Proceedings issued for the Revision of Emoluments for the Contractual workers after getting approval of the University through proper channel
7. Processing of Non-recurring items purchase files for getting principle approval
8. Regular visits to research stations and colleges for review of VCS
9. Regular revision of VCS software based on the feedback of the PIs
10. Analyzing the prospects of online marketing of the VCS products
11. Analyzing the technology transfer through VCS products
12. VCS software webinars conducted and based on the feedback of the PIs, modification and additional facilities created
13. Best VCS Awards under three categories were selected by the technical committee

New Schemes and Strengthening proposals

S.No	Year	New Proposals		Strengthening Proposals	
		No	Seed money Rs. in lakhs	No	Seed money Rs. in lakhs
1	2018-19	15	64.79	-	-
2	2019-20	15	41.05	-	-
3	2020-21	26	124.80	5	27.20

IV. Observation of VCS 2020-2021

1. Revenue of most of the schemes increased in spite of Covid-19
2. Price fixation has to be revised based on
 - a. Cost of Production + Cost of marketing + 25% margin = Selling price
 - b. Selling price of TNAU products and services must be compared with the price of competing firms and organizations.

A suitable selling price may be fixed. The difference between competitors price and TNAU may not be more than 25%. The TNAU price less than the private firms.
 - c. Price of TNAU product / services = Sale Price + GST (as applicable) No Round off.
3. Total revenue reported in the scheme should not include the GST portion.
(TR = Selling Price x Quantity)
4. Some the schemes recurring expenditure was not in line with the quantity produced and revenue generated
5. During Covid-19 Pandemic, the products were sold without in person contact. Different modes of online payment and delivery of goods was observed. Hence, the centralized online platform for the VCS products was discussed.
6. Some of the PIs suggested equal weightage has to be given for VCS like URP
7. Some of the PIs suggested appreciation certificates for the improvement of VCS in last three years

V. VCS Analysis

a. Institutional Charges Paid (Rs. in lakhs)

S. No	No. of Schemes	Year	Amount Rs. in Lakhs	Change over Previous year (%)
1	123	2015-16	88.42	-
2	124	2016-17	95.98	8.55
3	127	2017-18	88.50	- 7.79
4	145	2018-19	105.61	19.33
5	150	2019-20	129.68	22.79
6	175	2020-21	115.06	- 4.65

Seed money repaid + Institutional Charges
Rs. 35.27 + Rs.115.06 = Rs.150.33

b. Total Revenue Generated (Rs. in lakhs)

S. No	No. of Schemes	Year	Amount Rs.in Lakhs	Change over Previous year (%)
1	123	2015-16	598.44	-
2	124	2016-17	674.24	12.67
3	127	2017-18	649.08	- 3.73
4	145	2018-19	736.25	13.43
5	150	2019-20	865.43	17.55
6	175	2020-21	950.47	9.83

c. Expenditure Incurred (Rs in lakhs)

S. No	Year	Recurring	% to total	Non-Recurring	% to total	CoP	% to total	Total Exp	%
1	2015-16	290.61	62.88	133.39	28.86	38.13	8.26	462.13	100.00
2	2016-17	350.71	58.26	204.86	34.03	46.43	7.71	602.00	100.00
3	2017-18	350.69	56.95	205.69	33.40	59.41	9.65	615.79	100.00
4	2018-19	374.04	63.89	155.87	26.62	55.56	9.49	585.47	100.00
5	2019-20	370.73	62.76	150.41	25.46	69.53	11.78	590.67	100.00
6	2020-21	476.48	60.56	214.68	27.22	94.94	12.22	786.11	100.00

d. Profit Generated (Rs in lakhs)

S. No	No. of Schemes	Year	Total Revenue	Total Expenditure	IC	Profit (Before IC)	Profits (After IC)
1	123	2015-16	598.44	462.13	88.42	136.31	47.89
2	124	2016-17	674.24	602.00	95.98	72.24	-23.74
3	127	2017-18	649.08	615.79	88.50	33.29	-55.21
4	145	2018-19	736.25	585.47	105.61	150.78	45.17
5	150	2019-20	865.43	590.67	129.68	274.76	145.08
6	175	2020-21	950.47	786.11	115.06	164.36	49.30

e. Scheme category based on revenue generation

S.No	Revenue	No. of Schemes	
		2019-20	2020-21
1	Above Rs. 2 Crore	-	1
2	Rs.1 Crore to 2 Crore	2	0
3	Rs.25 lakhs to Rs 1 crore	2	4
4	Rs. 10 lakhs to Rs.25 lakhs	14	14
5	Rs.5 lakhs to Rs.10 lakhs	29	26
6	Rs. 3 lakhs to Rs.5 lakhs	12	23
7	Rs. 2 lakhs to Rs.3 lakhs	19	22
8	Rs. 1 lakh to Rs.2 lakhs only	19	29
9	Below Rs. 1 lakh	31	36
10	Zero income	4	13
	Total	132	168*

* 3 – To be closed, 4 – Awaiting for Seed money

f. VCS with Rs.1 to Rs.2 lakhs revenue generation 2020-21

S. No	Scheme Code	Year of Start	Station / Department	Place	TRG 2020-21 (Rs.)
1.	V60GQ	2011	CRS	Aliyarnagar	102340
2.	V60II	2019	Plant Pathology	ADAC&RI, Trichy	106202
3.	V60BY	2003	RRS	Paiyur	110479
4.	V60AI	2003	TNAU Information & Training Centre	Chennai	112510
5.	V60JB	2019	Biotechnology	AC&RI, Madurai	113640
6.	V60BQ	2005	ARS	Virinjipuram	114028
7.	V60HZ	2017	CRS	Aliyarnagar	118642
8.	V60BO	2003	ARS	Pattukottai	120798
9.	V60DB	2004	RRS	Aruppukottai	124215
10.	V60CF	2003	Soils & Environment	AC&RI, Madurai	124314
11.	V60BC	2003	TCRS	Yethapur	124626
12.	V60GT	2011	HRS	Thovalai	128992
13.	V60HK	2019	Renewable Energy	TNAU, Coimbatore	129983
14.	V60JR	2020	GRS	Theni	132000
15.	V60JD	2019	RRS	Vridhachalam	143596
16.	V60DC	2004	RRS	Aruppukottai	149430
17.	V60IN	2018	Crop Management	AC&RI, Vazhavachanur	150221
18.	V60IZ	2019	Agricultural Entomology	AC&RI, Killikulam	157015
19.	V60JE	2019	SS&AC	HC&RI, Periyakulam	161132
20.	V60FD	2007	Farm Machinery	AEC&RI, Kumulur	162374
21.	V60GL	2010	Spices & Plantation Crops	HC&RI, Periyakulam	163325
22.	V60CJ	2004	Floriculture & Landscaping	TNAU, Coimbatore	163650

S. No	Scheme Code	Year of Start	Station / Department	Place	TRG 2020-21 (Rs.)
23.	V60HF	2012	Tree Breeding	FC&RI, Mettupalayam	166082
24.	V60GF	2010	Floriculture & Medicinal Crops	HC&RI, Periyakulam	167020
25.	V60JG	2019	Fruit Science	HC&RI, Periyakulam	168071
26.	V60CP	2004	PHTC	TNAU, Coimbatore	168829
27.	V60FB	2006	Horticulture	HC&RI, Periyakulam	169991
28.	V60JQ	2020	IOA	Kumulur	172945
29.	V60EE	2006	Applied Sciences & Engineering	AEC&RI, Kumulur	185077

g. VCS with upto Rs. 1 lakh revenue generation 2020-21

S. No	Scheme Code	Year of Start	Station / Department	Place	TRG 2020-21 (Rs.)
1.	V60IG	2018	ARS	Bhavanisagar	120
2.	V60JX	2020	Agronomy	AC&RI, Killikulam	850
3.	V60JS	2020	RRS	Tirur	4155
4.	V60KD	2020	Sericulture	FC&RI, Mettupalayam	4705
5.	V60JP	2020	IOA	Kumulur	7800
6.	V60GJ	2010	CRS	Veppanthattai	8250
7.	V60JC	2019	MRS	VAGARAI	10728
8.	V60IY	2019	SS&AC	AC&RI, Killikulam	10890
9.	V60KC	2020	Sericulture	FC&RI, Mettupalayam	12624
10.	V60JZ	2020	Forest Breeding & Tree Improvement	FC&RI, Mettupalayam	15200
11.	V60JU	2020	TRRI	Aduthurai	16335
12.	V60JL	2020	Crop Improvement	AC&RI, Eachangkottai	16795
13.	V60JH	2019	FPE	AEC&RI, Kumulur	25492
14.	V60HO	2014	SS & AC	TNAU, Coimbatore	34707
15.	V60DK	2004	RRS	Aruppukottai	36981
16.	V60EM	2006	ARS	Bhavanisagar	39300
17.	V60DD	2004	Agronomy	AC&RI, Killikulam	39304
18.	V60GC	2010	Fruit Science	HC&RI, Periyakulam	44540
19.	V60GO	2010	Plant Protection	ADAC&RI, Trichy	45150
20.	V60DS	2005	HRS	Pechiparai	46960
21.	V60KG	2021	ORS	Tindivanam	47910
22.	V60DG	2004	SRS	SRS Sirugamani	51614
23.	V60IO	2018	Agricultural Entomology	TNAU, Coimbatore	54260
24.	V60CN	2004	ARS	Kovilpatti	63115

25.	V60ES	2006	Forest Products & Utilization	FC&RI, Mettupalayam	66034
26.	V60FM	2008	Seed Sci. & Tech.	TNAU, Coimbatore	66350
27.	V60DM	2005	ARS	Bhavanisagar	68754
28.	V60JN	2020	Soil and Env. Sciences	AC&RI, Madurai	70000
29.	V60FU	2010	Pulses	TNAU, Coimbatore	81092
30.	V60IW	2019	Crop Management	AC&RI, Vazhavachanur	84900
31.	V60EV	2006	SS&AC	ADAC&RI, Trichy	85200
32.	V60IF	2018	COE in Millets	Athiyandal	87200
33.	V60FF	2008	CRS	Veppankulam	87225
34.	V60AH	2003	HRS	Yercaud	92023
35.	V60CQ	2003	RS & GIS	TNAU, Coimbatore	92500
36.	V60GI	2010	Extension Education & Communication Management	CSC&RI, Madurai	94097

h. VCS schemes without income

S. No	Scheme Code	Year of Start	Station / Department	Place	TRG 2020-21 (Rs.)
1.	V60BA	2003	HRS	Thadiyankudisai	(Lack of technical manpower)
2.	V60IT	2018	SS & AC	TNAU, Coimbatore	(Machinery installation delayed due to COVID 19)
3.	V60EH	2006	CSW	TNAU, Coimbatore	(Covid 19 pandemic)
4.	V60ET	2006	CSW	TNAU, Coimbatore	(Covid 19 pandemic)
5.	V60JJ	2020	SWC	AEC&RI, Kumulur	-
6.	V60JM	2020	Farm	FC&RI, Mettupalayam	-
7.	V60JT	2020	TRRI	Aduthurai	-
8.	V60JV	2020	TRRI	Aduthurai	-
9.	V60JW	2020	TRRI	Aduthurai	-
10.	V60KA	2020	Social Sciences & Allied Sciences	AC&RI, Eachangkottai	-
11.	V60HC	2011	NPRC	Vamban	-
12.	V60HU	2016	DARS	Chettinad	-
13.	V60JF	2019	IOA	Vamban	-

VI. Action Plan 2021-2022

1. Devising strategies for Market promotion and sales during pandemic – Online Marketing of VCS products
2. Devising guidelines along with Comptroller for better financial management
3. Continuous monitoring of VCS through VCS Software
4. Highlighting technology transfer through VCS and assessing the related benefits to stakeholders
5. Getting feedback from the customers to improve the VCS delivery system
6. Revision of SOP based on the feedback from PIs/Comptroller/University Officers
7. VCS which continuously generates lower revenue compared to previous years for last three years will be monitored periodically
8. New thrust areas like medicinal plant cultivation, roof top garden / kitchen garden, etc., may be included for new VCS proposals

B. REVOLVING FUND

I. Directorate of Centre for Plant Breeding and Genetics

ICAR – NSP (Crops) and TNAU BSP Revolving Fund

The progress made under the ICAR –NSP (Crops) and TNAU- BSP Revolving Fund in the 11 BSP centres namely ARS Bhavanisagar, ARS Vaigaidam, ARS Pattukkottai, RRS,Vriddhachalam, TRRI Aduthurai, AC&RI Madurai, ADAC&RI Trichy, CEM Athiyandal, ORS Tindivanam, ARS Kovilpatti and NPRC, Vamban presented by the Director, CPBG, TNAU, Coimbatore. The progress of works was reviewed by the Vice-Chancellor and approved. The following are the remarks on the ICAR- NSP (Crops) and TNAU- BSP Revolving Fund projects.

General Remarks:

1. All the BSP centres are requested that the profit generated from revolving fund may be utilized for the mechanization in breeder seed production in order to reduce the labour requirement.

(Action : All the RF operating BSP Centres)

2. The breeder seed production should be registered within the fortnight of completion of sowing.

(Action: All the RF operating BSP centres)

- The producing breeder should monitor the breeder seed crop closely to fix up the exact date of monitoring visit and facilitate the members of BSP monitoring team to inspect the crop at appropriate stage.

(Action: All the RF operating BSP centres)

- The expenditure and receipt of the nucleus seed production may be brought under BSP Revolving Fund

(Action : All the RF operating BSP Centres)

- The profit generated under the revolving fund schemes may be transferred to the Breeder Seed Co-ordination unit as fixed by the university on or before March 31st of every year without fail.

(Action: All the RF operating BSP centres)

- All the nucleus seed production centres are requested to ensure 100% genetic purity without any lapse.

(Action: All the RF operating BSP centres)

- Despatch of breeder seeds to be done as per the despatch instruction of Director (CPBG) within stipulated time without any delay.

(Action: All the RF operating BSP centres)

- Failure to meet out the assigned target to be brought to the knowledge of the Breeder seed unit, in order to programme the alternate crop and effect supply during next year without any shortfall.

(Action: All the RF operating BSP centres)

Centre wise remarks

Sl. No.	Project No & Title	Project Leader	Research Station	Remarks
1.	RF/ARS-BSR/002 Revolving fund for the Breeder Seed production in Agricultural crops under ICAR National Seed Project	Dr. D. Malarvizhi Assoc. Prof (PBG) Dr. S. Utarasu Asst Prof (PBG)	ARS, Bhavanisagar	Power weeder may be purchased for mechanical weeding
2.	ICAR- RF/ARS,VGD/2019 /D002.	Dr.M.Jayaramachandran Asst. Prof. (PBG) Dr. K. Sundaralingam Prof	ARS, Vaigaidam	Power weeder may be purchased for mechanical

	Revolving Fund for the Breeder seed production of rice, Oilseeds and Pulses at ARS, Vaigai Dam initiated with the seed money of ICAR-NSP Crops	& Head Dr. C. Parameswari Asst Prof (PBG)		weeding. Seed drill may be purchased after ascertaining the utility
3.	TNAURF/CPBG/VRI/2016/D001 Nucleus and Breeder Seed Production in Groundnut	Dr. M. Pandiyan Professor (PBG) Dr. A. Mahalingam Asst Prof (PBG)	RRS, Vridhachalam	The breeder seed production of sesame may be included in BSP-RF
4.	GOI R 28 AB ICAR-NSP- Revolving fund – Revolving fund for Breeder seed production in cereals and pulses at ARS, Pattukkottai initiated with the seed money of ICAR_NSP crops, under special food grains production programme.	Dr. A. Bharathi Asst Prof (PBG)	ARS, Pattukkottai	The indent may be met out without any shortfall
5.	Revolving fund Scheme on the Breeder Seed production in Agricultural Crops	Dr.C.Vanniarajan Prof. & Head Dr.A.Yuvaraja Assoc.Prof (PBG) Dr.G.Anand Asst.Prof.(PBG) Dr.A.Sheeba Asst.Prof (PBG) Dr.R.Chandirakala Assoc.Prof (PBG)	AC&RI, Madurai	The indent may be met out without any shortfall.
6.	Revolving fund for the breeder seed production in Rice	Dr.R.Chitra Asst.Prof (PBG) Dr.T.Thirumurugan Asst.Prof (PBG)	ADAC&RI, Trichy	The indent may be met out without any shortfall
7.	Revolving fund for the breeder seed production in sorghum, cotton and chillies	Dr.S.Hari Ramakrishnan Asst.Prof (PBG) Dr.N.Malini Asst.Prof (PBG)	ARS, Kovilpatti	The indent may be met out without any shortfall.

8.	Revolving fund for the breeder seed production of small millets	Dr.A.Nirmalakumari Prof.&Head	CEM, Athiyenthal	The indent may be met out without any shortfall.
9.	Revolving fund for the breeder seed production in Pulses	Dr.M.Gunasekaran Prof. & Head Dr.P.Shanthi Asst.Prof. (PBG)	NPRC, Vamban	The indent may be met out without any shortfall.
10.	Seed production in oilseeds and pulses at Oilseeds Research Station, Tindivanam	Dr.R.Kanchanarani Asst.Prof.(PBG) Dr.P.Sridhar Prof.& Head	ORS, Tindivanam	Groundnut stripper may be purchased for harvesting groundnut
11.	Revolving fund for breeder seed production in paddy and pulses	Dr.D.Sassikumar Assoc.Prof (PBG) Dr.R.Arulmozhi Asst.Prof (PBG)	TRRI, Aduthurai	Necessary steps may be taken to repair and renovation of nucleus and breeder seed godown

II. Seed Centre

The Director, Seed Centre presented the action taken report on recommendations of 3rd Scientists Meet on Production Oriented Project; progress in seed production activities of ICAR-Mega Seed Project Revolving fund; GOI Seed Hub projects; University Research Projects on seed production; fFarmers participatory seed production; overall achievements in seed production during 2020-21 and action plan (TNAU seed plan) for the year 2021-22. Director, Seed Centre informed that during the pre-review meeting, totally 39 projects were reviewed including 24 projects under ICAR-Mega Seed Project Revolving fund, 9 projects under seed hubs (7 in pulses and 2 in oilseeds) and 7 URP on seed production. The following remarks were made during the presentation.

Scheme-wise Review Remarks

a. ICAR-Mega Seed Project - Revolving fund scheme

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
I.	Agricultural Crops			

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
1.	RF/ACRI/MDU/001 ICAR - Revolving Fund - Seed Production in Agricultural Crops	Dr. R.Geetha Professor & Head (SST) Dr. K. Sujatha Professor (SST)	Dept. of Seed Science & Technology, AC&RI, Madurai	The financial performance is not satisfactory. Expenditure may be minimized and seed production may be intensified to increase the profit. The loss incurred so far should be made good by increasing the revenue in 2021-22. The scheme may be continued.
2.	RF/ARS-BSR/001 Revolving fund for the seed production in agricultural crops under ICAR Mega Seed Project.	Dr.R.Jegathambal Professor (SST) Dr.K.Malarkodi Assoc. Professor (SST) Dr.V.Vakeswaran Asst. Professor (SST)	ARS, Bhavanisagar	Efforts may be taken to increase the revenue. Expenditure towards Technical manpower and non-recurring items may be minimized to increase the profit during 2021-22. The scheme may be continued.
3.	RF/ARS-KPT/001 Seed Production in Agricultural crops	Dr. N. Malini Asst. Professor (PB&G) Dr. S. Hari Ramakrishnan Asst. Professor (PB&G)	ARS, Kovilpatti	The financial performance is not satisfactory. Expenditure may be minimized and seed production may be intensified to increase the profit. The loss incurred so far should be made good by increasing the revenue in 2021-22. The scheme may be continued.
4.	RF/SRS-SGM/002 ICAR-Mega seed project - Revolving fund scheme on 'seed production in agricultural crops'	Dr.M.Sakila Asst. Professor (PB&G)	SRS, Sirugamani	The financial performance is not satisfactory. Expenditure may be minimized and seed production may be intensified to increase the profit. The loss incurred so far should be made good

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
				by increasing the revenue in 2021-22. Seed production in horticultural crops may also be included in this scheme to increase revenue and profit. The scheme may be continued.
5.	ICAR-RF/SEC/TNJ/SST/2016/ D001 - Revolving fund for the seed production in Agricultural crops	Dr. S. Porpavai Professor and Head	ARS, Kattuthottam, Thanjavur	The performance is good. Efforts may be taken to further increase the profit during 2021-22. The scheme may be continued.
6.	RF/TCRS-YTP/001 Revolving fund for the seed production in Agricultural crops	Dr. S.R. Venkatachalam Professor & Head Dr. P. Arutchenthil Assistant professor (PBG)	TCRS, Yethapur	The financial progress is good. Efforts may be taken to further increase the profit during 2021-22. The scheme may be continued.
7.	RF/DFM-CBE/001 Seed production in Agricultural crops	Dr. S.K. Natarajan Asst. Prof. (Agron.) Dr. R.Jayarama Soundari Asst. Prof. (Agron.) Dr. N.Sakthivel Assoc. Prof. (Agron.) Dr. S. Radhamani Assoc. Prof. (Agron.)	Dept. of Agronomy TNAU, Coimbatore.	Efforts may be taken to increase the revenue and profit during 2021-22 by minimizing expenditure towards Technical manpower and non-recurring items. The scheme may be continued.
8.	DSC-ICAR-MSP-RF-05-SC-CBE Seed Production in Agricultural Crops	Dr. S. Sundareswaran Director, Seed Centre Dr. K. Raja Assoc. Professor (SST) Dept. of Seed Science &	Seed Centre, TNAU, Coimbatore	Efforts may be taken to collect the seed money paid to sub-centres and 10% of the profit from all the centres to maintain sufficient reserve of seed money. The scheme may be continued.

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
		Technology Dr. C. Vanitha Asst. Professor (SST)		
9.	CPBG/CBE/PBG/RIC /2016/006 Maintenance breeding of CO rice varieties and breeder seed multiplication(09 V 60)	Dr. K. Ganesamurthy Professor (PBG) & Head Dr. K. Amudha Assistant Professor (PBG)	Dept. of Rice, CPBG, TNAU, Coimbatore.	The performance is good. Efforts may be taken to minimize the expenditure and to increase the profit during 2021-22. The scheme may be continued.
10.	ICAR-RF/AEC/KUM/ASE/D003 Revolving Fund for Seed Production in Agricultural Crops	Dr. M. Dhandapani Asst. Prof. (PBG) Dr. S. Joshua Davidson Assoc. Prof and Head	AEC & RI, Kumulur	Efforts may be taken to increase the profit during 2021-22. Since, the scheme is transferred to IOA, Kumulur, the seed production programme may be intensified by utilizing the students force to augment the production, revenue and profit. The scheme may be continued.
11.	RF/ADACRI-TRY/001 Seed Production in Agricultural Crops	Dr. T. Eevera Asst. Professor (SS&T) Dr. T. Ramesh Asst. Professor (Agron) Dr. P. Alagesan Asst. Professor (Agron)	ADAC & RI, Trichy.	The performance is good. Efforts may be taken to further increase the profit during 2021-22. The scheme may be continued.
12.	RF/NPRC -VBN /001 Revolving fund for the seed production in Agricultural Crops	Dr. M. Gunasekaran Professor (PBG) & Head Dr.P. Shanthi Asst. Professor (PBG)	NPRC, Vamban	The performance is good. Efforts may be taken to further increase the revenue and profit during 2021-22. The scheme may be continued.

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
13.	ICAR-RF/CPBG/ATL/MIL/2016/ D001 - Quality Seed Production in Small Millets - Under ICAR Mega Seed Project	Dr. A.Nirmalakumari Professor and Head Dr. K. Ananthi Assistant Professor (Crop Physiology)	CEM, Athiyandal	The performance is good. Efforts may be taken to increase the production, revenue and profit during 2021-22. The balance seed money may be repaid to Seed Centre, TNAU, Coimbatore during 2021-22. The scheme may be continued.
14.	RF/SST-CBE/003 - Quality Seed Production and Seed Quality Enhancement under ICAR- Mega seed	Dr. P.R. Renganayaki Professor and Head Dr. J. Renugadevi Professor (SST) Dr. D. Thirusendura Selvi Assistant Professor (SST)	Dept. of Seed Science & Technology, TNAU, Coimbatore	The financial performance is not satisfactory. Expenditure may be minimized and the production may be intensified by contract seed production. The loss incurred so far should be made good by increasing the revenue during 2021-22. The scheme may be continued.
15.	Seed Production in Agricultural and Horticultural Crops	Dr. V. Vijayalakshmi Asst. Professor (SST) Dr. N.A. Saravanan Asst. Professor (PBG) Dr. K. Sivasubramaniam Professor (SST)	AC & RI, Kudumiyamalai	Efforts may be taken to intensify the seed production programme and to increase the revenue during 2021-22. Farmers participatory seed production may be followed. The scheme may be continued.
16.	ICAR-MSP/CPBG/VGD/ D001 Revolving Fund for the Seed production in agricultural and horticultural crops	Dr. K. Sundaralingam Prof. & Head Dr. T.L. Preethi Asst. Prof. (Hort.) Dr. C. Parameswari Asst. Professor	ARS, Vaigai Dam	The performance is good. Efforts may be taken to increase the revenue and profit during 2021-22 by taking-up seed production both in agricultural and horticultural crops. The

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
		(PBG) Dr. M. Jayaramachandran Asst. Professor (PBG)		scheme may be continued.
17.	DSC/ICAR-MSP/RF/25/ORS-TVM - Seed Production in agricultural and horticultural crops	Dr.J.Yogalakshmi Asst. Professor (SS&T) Dr.S.Thiruvassan Asst. Professor (Agron)	ORS, Tindivanam	The performance is not satisfactory. Seed production programme may be intensified and efforts may be taken to increase the revenue under seed production during 2021-22. Technical help of Seed Scientist available at KVK, Tindivanam may be utilized for seed production activities. The scheme may be continued.
18.	DSC/ICAR-MSP/RF/26/AC&RI-VVNR - Quality seed production in agricultural and horticultural crops	Dr. V. Paramasivam, Professor (SST), Dr.P.Ayyadurai Asst. Professor (Agron) Dr.P.Thukkaiyannan Asst. Professor (Agron)	AC & RI, Vazhavachanur	Efforts may be taken to further increase the revenue under seed production during 2021-22. The scheme may be continued.
II.	Horticultural Crops			
19.	RF/VEG-CBE/001 Seed Production in vegetable crops on contract basis and production of vegetable seedlings and grafts	Dr. R. Swarnapriya Professor and Head Dr. L. Pugalendhi Dean (Hort.) Dr. A. Sankari Assoc. Prof (Hort.) Dr. M. Prabhu Asst. Professor (Hort.)	Dept. of Vegetable Science, HC & RI, TNAU, Coimbatore	The performance is good. The project may be continued with the same trend. The revenue may be further increased by minimizing expenditure during 2021-22.

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
20.	RF/SRS-SGM/001 Seed production in horticultural crops	Dr. M. Sakila Asst. Professor (PB&G)	SRS, Sirugamani	The performance is not satisfactory. Since, two ICAR-Mega Seed Project Revolving Fund schemes are operating in this station and also incurred a loss, this project may be closed and the balance amount available as on 31.03.2021 may be transferred to Seed Centre, TNAU, Coimbatore.
21.	RF/ARS-BSR/003(13 - C31 LM) - Revolving fund for the Seed production in horticultural crops	Dr.K.Malarkodi Assoc. Professor (SST) Dr.P.Hemalatha, Asst. Professor (Hort.)	ARS, Bhavanisagar	Efforts may be taken to intensify the seed production in horticultural crops and to increase the revenue during 2021-22. The scheme may be continued.
22.	TNAU- RF/HCRI/OTY/Hort. / 2017/ R004 - Seed production in horticultural crops	Dr. D. Keisar Lourdusamy Assoc. Professor & Head Dr. S. Karthikeyan Asst. Professor (Hort.)	HRS, Ooty	Efforts may be taken to further increase the revenue and profit. Seed production in peas and beans, if possible may be taken up under farmers participatory mode. The scheme may be continued.
23.	ICAR Revolving Fund Scheme on "Seed Production in Vegetable crops on Contract basis"	Dr. P. Geetharani Professor (SST)	Dept. of Vegetable Science, HC & RI, Periyakulam	The performance is good. The project may be continued with the same trend. The revenue may be further increased by minimizing expenditure during 2021-22.
24.	DSC-ICAR-MSP-RF-27-HC&RI (W) TRY Participatory Vegetable Seed	Dr. V. Lakshmanan Professor & Head Dr. K. Kumanan	HC & RI (W) Trichy	Since, the project is newly started, revenue has not been realized. Hence, efforts may be taken to

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
	production in TNAU Varieties / Hybrids on Contract basis	Asst. Prof. (Hort.) Dr. A. Nithya Devi Asst. Prof. (Hort.) Dr. N.Punithavathi Assoc. Prof. (SST)		increase the revenue and profit during 2021-22. Procedure for farmers participatory seed production should be strictly followed to enhance the quality of seeds. The scheme may be continued.

b. Seed Hub Projects

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
1.	Seed Hub - Pulses "Creation of Seed Hubs for increasing indigenous production of Pulses in India"	Dr. R.P.Gnanamalar Professor & Head Dr. S. Lakshmi Assoc. Professor (SST)	Dept. of Pulses, TNAU, Coimbatore	The financial performance is good. However, efforts may be taken to further increase in the profit during 2021-22. Production short fall in 2020-21 may be taken-up during 2021-22 in addition to the regular target for 2021-22.
2.	Seed Hub - Pulses "Creation of Seed Hubs for increasing indigenous production of Pulses in India"	Dr.M.Gunasekaran Professor & Head Dr.P.Shanthi Asst. Prof. (PBG)	NPRC, Vamban	The financial performance is not satisfactory. Efforts may be taken to increase the revenue and profit during 2021-22. Production short fall in 2020-21 may be taken-up during 2021-22 in addition to the regular target for 2021-22.

3.	Seed Hub - Pulses "Creation of Seed Hubs for increasing indigenous production of Pulses in India"	Dr.Chelvi Ramesh Programme Coordinator Dr.C.Menaka Asst. professor (SST) Dr. B.Usharani Asst. Prof. (Agrl. Ento.)	KVK, Madurai	The performance is not satisfactory. Efforts may be taken to increase the revenue and profit during 2021-22. Production short fall in 2020-21 may be taken-up during 2021-22 in addition to the regular target for 2021-22.
4.	Seed Hub - Pulses "Creation of Seed Hubs for increasing indigenous production of Pulses in India"	Dr. K.Parameswari Assistant Professor (SST)	KVK, Tindivanam	Efforts may be taken to increase the revenue and profit during 2021-22. Production short fall in 2020-21 may be taken-up during 2021-22 in addition to the regular target for 2021-22.
5.	Seed Hub - Pulses "Creation of Seed Hubs for increasing indigenous production of Pulses in India"	Dr.M. Vijayakumar Programme Coordinator Dr. R.Vijayan Asst. Professor (SST)	KVK, Sandhiyur	The physical performance is good. Efforts may be taken to increase in the revenue and profit during 2021-22.
6.	Seed Hub - Pulses "Creation of Seed Hubs for increasing indigenous production of Pulses in India"	Dr.N.Tamilselvan Programme Coordinator V.Alex Albert Asst. Professor (SST)	KVK, Sirugamani	The financial performance is not satisfactory. Efforts may be taken to increase in the revenue and profit during 2021-22. Production short fall in 2020-21 may be taken-up during 2021-22 in addition to the regular target for 2021-22.
7.	Seed Hub - Pulses "Creation of Seed Hubs for increasing indigenous production of Pulses in India"	Dr.G.Srinivasan Programme Coordinator Dr.C.Rajababu AP (CRP) Dr.B.Venudevan Asst. Professor (SST)	KVK, Aruppukottai	Efforts may be taken to increase the revenue and profit during 2021-22. Production short fall in 2020-21 may be taken-up during 2021-22 in addition to the regular target for 2021-22.

8.	Seed Hub - Oilseeds - "Creation of seed hubs for enhancing quality seeds availability of major oilseed crops - Groundnut"	Dr. K. Subrahmanian Professor and Head Dr. K. Natarajan Asst. Professor (SST)	RRS, Vridhachalam	The performance is good. The project may be continued with the same trend.
9.	Seed Hub - Oilseeds - "Creation of seed hubs for Enhancing quality seeds availability of major oilseed crops - Castor"	Dr.S.R.Venkatachalam Professor & Head Dr.P.Arutchenthil Assoc. Professor (PBG)	TCRS, Yethapur	The performance is good. The project may be continued with the same trend.

c. University Research Projects

S. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
1.	SEC/BSR/SST/SPN/2019/002 Foundation seed production in paddy ADT 43, ADT (R) 45 and IW Ponni	Dr.V.Vakeswaran Assistant Professor	ARS, Bhavanisagar	The project may be closed and a new project may be proposed.
2.	SEC/BSR/SST/SPN/2019/ 003 Labelled seed production in green manure and forage crops	Dr.V.Vakeswaran Assistant Professor	ARS, Bhavanisagar	The project may be closed.
3.	SEC/BSR/SST/SPN/2019/004 Foundation seed production in paddy varieties ASD 16, ADT 37 and CO 51	Dr. K. Malarkodi Associate Professor (SST)	ARS, Bhavanisagar	The project may be closed and a new project may be proposed.
4.	SEC/BSR/SST/SPN/2019/001 Foundation and labelled seed production in pulses	Dr. K. Malarkodi Associate Professor (SST)	ARS, Bhavanisagar	The project may be closed and a new project may be proposed.
5.	SEC/KUM/SST/SPN/2019/001 Seed production of rice varieties and annual moringa PKM1	Dr. V.Alex Albert Asst. Prof. (SST), AEC & RI, Kumulur	AEC & RI, Kumulur, Trichy	Since the scientist has been transferred to KVK, Sirugamani, this project may be closed at AEC&RI, Kumulur.
6.	SEC/TRY/SST/SPN/2019/001 Rice seed production and distribution	Dr.T.Eevera, Asst. Professor (SST)	ADAC&RI, Trichy	The project may be closed and a new project may be proposed.

7.	SEC/ADT/SST/RIC/2020/001 Seed production in rice and pulses varieties	Dr. N. Punithavathi Assoc. Professor (SST) HC&RI(W), Trichy	TRRI, Aduthurai	Since the project leader has been transferred without substitute, deletion proposal to delete the project may be sent for approval.
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III. Horticulture College & Research Institute

REVOLVING FUND SCHEMES

List of Projects				
S. No.	Name of the Scheme	Name & Designation of the PI	Station	Remarks
1.	Revolving Fund Scheme - 'Floriculture Nursery'	Dr. M. Velmurugan Asst. Professor (Hort.)	Department of Floriculture and Landscape Architecture, TNAU, CBE	The project may be continued New <i>Jasminum sambac</i> clone in pipe line may be multiplied in large numbers through research stations, KVKs and spread to farmers
2.	Revolving Fund – Tamarind	Dr. K. Venkatesan Professor and Head	Department of Spices and Plantation Crops, TNAU, Coimbatore	The income generation from the scheme is very meager. Hence, necessary proposal may be sent for closure of the scheme through proper channel
3.	Revolving Fund- Strengthening of Nursery for production of elite fruit plants	Dr. J. Rajangam Professor and Head	Department of Fruit Science, TNAU, Periyakulam	The project may be continued
4.	Breeder seed production in vegetable crops	Dr. P. Geetharani Professor (SST)	Department of Vegetable Crops, TNAU, Periyakulam	The indent and production is very low. Hence the scheme may be merged with the regular RF scheme in the department

5.	Revolving Fund - Production of elite plants and quality seeds of horticultural crops	Dr. S. Easwaran, Associate Professor (Hort) Dr. T. Thangaselvabai Professor and Head,	HRS, Thadiyankudisai	The project may be continued
6.	Production of elite plants and quality seeds of horticultural crops	Dr. I. Muthuvel Associate Professor and Head	HRS, Kodaikanal	The project may be continued
7.	Production of elite planting materials in horticultural crops	Dr. V.A. Sathiyamurthy Associate professor and Head	HRS, Yercaud	The project may be continued
8.	Revolving Fund for Seed Production in Horticulture Crops	Dr. L. Jeeva Jothi Professor (Hort.)	RRS, Paiyur	The project may be continued The grafting may be done with well trained technical person
9.	Revolving Fund - Horticulture	Dr. G. Sathish Asst. Prof. (Hort.)	RRS, Vridhachalam	The projects Revolving Fund – Horticulture and Regional Nursery may be merged and continued as a single project. Hence, necessary proposal may be sent for merging the schemes through proper channel
10.	Revolving Fund - Regional Nursery	Dr. M. Mohanalakshmi Asst. Prof. (Hort.)	RRS, Vridhachalam	
11.	ICAR – Revolving Fund – Strengthening of Nursery for Production of elite Fruit Plants	Dr.M.S.Aneesha Rani Professor and Head _{i/c}	Department of Fruit Science HC&RI, TNAU, Coimbatore	The project may be continued
12.	ICAR Revolving Fund for Elite plants	Dr.C.Rajamanickam, Asst. Prof. (Hort.)	Dept. of Horticulture, AC&RI, Madurai	The project may be continued
13.	CDB Revolving Fund for the Production and distribution of quality coconut seedlings	Dr. V. Sivakumar Asst. Prof. (Hort.)	CRS, Aliyarnagar	The project may be continued Action plan for income generation of Rs.30,00,000 may be submitted

14.	CDB Revolving Fund Production and distribution of quality coconut seedlings	Dr. R. Arun Kumar Asst. Prof. (Hort.)	CRS, Veppankulam	The project may be continued Action plan for income generation of Rs.50,00,000 may be submitted
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IV. TNAU RFs

a. Directorate of Natural Resource Management

The scheme-wise review remarks are as below:

Sl. No.	Name of the scheme & Department	Remarks
1.	TNAU-RF/NRM/CBE/SSAC/2016/R005: TNAU Mineral Water Production Unit Dept. of Soil science and Agrl. Chemistry, TNAU, Coimbatore-3.	To be continued. The scientist-in-charge and Professor & Head have to facilitate and correspond to TNAU centres periodically from the O/o DNRM for promotion of sales.
2.	TNAU-RF / NRM / CBE / SSAC / 2016/R006: Use and maintenance of TNAU Golden Jubilee Hall at Coimbatore Dept. of Soil science and Agrl. Chemistry, TNAU, Coimbatore-3.	To be continued. Maintenance of the Hall is to be monitored constantly.
3.	RF/RS&GIS/CBE/001: TNAU RIICE Technology Products and Services In Crop Insurances	To be continued. Measures for enhancement of revenue generation may be explored and adopted.

b. Directorate of Extension Education

Sl. No.	Name of the scheme	Remarks
1.	TNAU Revolving Fund for University Press	To be continued

C. CLOSING REMARKS & WAY FORWARD

1. Venture Capital Scheme:

- Cost on production of product / analysis has to be worked out. The methodologies for estimating the cost of production will be provided by DABD (Action: DABD)
- The returns per rupee invested for few VCS has be worked out (Action: DABD)
- If the department / research stations have more than one VCS, it has to be merged. One VCS per station / department is encouraged (Action: DABD & PI)
- The VCS which has not repaid the seed money within three years has to pay the seed money along with IC (Action: DABD)
- *Pseudomonas* may be removed from the title of VCS and revised title may be sent for approval (Action: PI & DABD)
- VCS which have not initiated the activities during the last year has to initiate the activities in 2021-22. The Heads of the Departments / Stations and PIs are requested to introduce the measures to implement the activities (Action: PI)
- The information on the availability of VCS products may be linked with the main page of the TNAU website (Action: DABD & Dean, AEC&RI)
- Online Marketing of VCS products has to be initiated (Action: DABD)
- Every week expenditure and sale entries of the VCS has to be made in the VCS Software by respective PIs/Co-PIs/Staff for effective management and monitoring of the VCS (Action: PI & HODs)

2. Directorate of Centre for Plant Breeding and Genetics

- All the BSP centres are requested that the profit generated from revolving fund may be utilized for the mechanization in breeder seed production in order to reduce the labour requirement.
 - **(Action : All the RF operating BSP Centres)**
- The breeder seed production should be registered within the fortnight of completion of sowing.
 - **(Action: All the RF operating BSP centres)**
- The producing breeder should monitor the breeder seed crop closely to fix up the exact date of monitoring visit and facilitate the members of BSP monitoring team to inspect the crop at appropriate stage.
 - **(Action: All the RF operating BSP centres)**
- The expenditure and receipt of the nucleus seed production may be brought under BSP Revolving Fund
 - **(Action : All the RF operating BSP Centres)**

- The profit generated under the revolving fund schemes may be transferred to the Breeder Seed Co-ordination unit as fixed by the university on or before March 31st of every year without fail.
 - **(Action: All the RF operating BSP centres)**
- All the nucleus seed production centres are requested to ensure 100% genetic purity without any lapse.
 - **(Action: All the RF operating BSP centres)**
- Despatch of breeder seeds to be done as per the despatch instruction of Director (CPBG) within stipulated time without any delay.
 - **(Action: All the RF operating BSP centres)**
- Failure to meet out the assigned target to be brought to the knowledge of the Breeder seed unit, in order to programme the alternate crop and effect supply during next year without any shortfall.
 - **(Action: All the RF operating BSP centres)**

3. Seed Centre

- The performance of NPRC, Vamban; ARS Bhavanisagar; AEC & RI, Kumalur; and ARS, Thanjavur in seed production under ICAR-Mega Seed Project Revolving fund (Agricultural crops) schemes were good. However, the increase in revenue and profit may be targeted during 2021-22.
- Under horticultural crops, the Department of Vegetable Science, HC&RI, Coimbatore and Department of Vegetable Science, HC&RI, Periyakulam outperformed in vegetable seed production under ICAR-Mega Seed Project Revolving fund (Horticultural crops) which may be continued with incremental increase in revenue and profit during 2021-22.
- Though ARS, Bhavanisagar and Central Farm Unit, Department of Agronomy, TNAU, Coimbatore centres have earned more revenue, the profit is less due to more expenditure. Therefore, efforts may be taken to minimize the expenditure so that the profit can be increased during 2021-22.
- Efforts may be taken by the Department of Seed Science and Technology, AC & RI, Madurai; Department of Seed Science and Technology, TNAU, Coimbatore; SRS, Sirugamani; and ARS, Kovilpatti to enhance seed production and to increase the profit, since the profit realised during 2020-21 was very less.

- The revolving fund scheme in horticultural crops operating at SRS, Sirugamani is not profitable. Moreover, two revolving fund schemes are operating in this centre. Hence, the ICAR- Mega Seed Project Revolving Fund scheme (Horticultural crops) is recommended for closure and the balance amount available as on 31.03.2021 may be transferred to the Director, Seed Centre, TNAU, Coimbatore to re-allot to needy centres.
- Centre of Excellence in Millets, Athiyandal should repay the balance seed money during 2021-22.
- Efforts may be taken to increase the revenue and profit by the new centres *viz.*, AC & RI, Kudumiyamalai; AC & RI, Vazhavachanur and ORS, Tindivanam during 2021-22.
- Proposal on seed production programme for 2021-22 may be prepared by the new centre, KVK, Needamangalam and sent to the Director, Seed Centre to obtain approval of the University.
- Since the revolving fund scheme is transferred from AEC & RI, Kumulur to IOA, Kumulur, the seed production programme may be intensified by utilizing the students force to augment the production, revenue and profit.
- All the centres should aim for atleast 20-25% increase in seed production (physical target) and profit (financial target) when compared to 2020-21. Production of green manure and forage crop seeds may be taken up by all the centres wherever possible.
- All the seed production centres should restrict the expenditure on non- recurring items and cost of personnel (JRF / Technical Assistants etc.,) to increase the profit.
- Award for best performing Revolving fund centres (one based on production and other one based on profit) may be proposed to encourage the seed production and revenue generation under Revolving fund schemes.

4. Horticulture College & Research Institute

- In the Revolving Fund Scheme – 'Floriculture Nursery', new *Jasminum sambac* clone in pipe line may be multiplied in large numbers through research stations, KVKs and spread to farmers (**Department of Floriculture and Landscape Architecture, TNAU, Coimbatore**).
- The Revolving Fund – Tamarind scheme may send closure proposal through proper channel since the income generation from the scheme is very meager. (**Department of Spices and Plantation Crops, TNAU, Coimbatore**).

- The Breeder seed production in vegetable crops scheme may be merged with the regular RF scheme in the department because the indent and production is very low **(Department of Vegetable Crops, TNAU, Periyakulam).**
- The projects Revolving Fund – Horticulture and Regional Nursery may be merged and continued as a single project for which necessary proposal may be sent through proper channel **(Regional Research station , TNAU, Vridhachalam)**

5. TNAU RFs

a. Directorate of Natural Resource Management

As a measure to enhance the income generation, all the University Officers / HoDs of TNAU are requested to purchase the mineral water available at Mineral Water Unit, Dept. of SS&AC, DNRM, TNAU, Coimbatore for the forthcoming events / functions / meetings to be organised in their respective offices.

b. Directorate of Extension Education

- To expedite the completion of renovation works of TNAU Press building
- To commission the production of printing with newly purchased HMT 425 Multicolour offset printing
- To take-up printing of text books with ISBN

D. ANNEXURE

Detailed Review report of Venture Capital Schemes (VCS) Operated in TNAU (Annexure – I)

S. No	VCS Code	Title of the VCS	Name of the PI	Remarks
1.	V60EY	Analysis of Pesticide Residues for Agribusiness Entrepreneur on cost basis	Dr. K. Bhuvanewari, Prof Ento, Dept. of Agrl. Entomology, TNAU	<ul style="list-style-type: none"> Organize five days training, accordingly fix the training module and fee Action plan has to be prepared to set up NABL accreditation in Coimbatore, Trichy, Madurai and Killikulam campuses and send a report to DABD on or before 31.03.2021
2.	V60EJ	Production and Sale of Indian bee colonies	Dr. P.A Saravanan, Asst.Prof. Dept. of Agrl. Entomology, TNAU	<ul style="list-style-type: none"> Send a detailed plan for rejuvenation of VCS before 31.03.2021 Barcoding of Bee colonies kept inside the TNAU campus before 31.03.2021 Increase the sale of bee hive colonies Collect the details on number of entrepreneurs developed through training and send the report to DABD before 31.03.2021
3.	V60HM	Mass production of insect biocontrol agents	Dr.Jeyarajan Nelson, Professor (Agrl. Entomology), Dept. of Agrl. Entomology, TNAU	<ul style="list-style-type: none"> VCS may be continued VCS software has to be updated Send a reminder to collect the pending credit bills
4.	V60IO	TNAU Insect Museum	Dr N.Chitra, Asso.Prof.(Agrl.Ento.) Dept. of Agrl.Entomology, TNAU	<ul style="list-style-type: none"> VCS software has to be updated VCS may be continued

5.	V60HI	Bio inoculants Production and Quality Control	Dr. V. Gomathi Prof and Head Dept of Ag Microbiology, TNAU	<ul style="list-style-type: none"> • VCS software has to be updated • Complete the works of NMSA production at six centres of TNAU and start the production of liquid bio-fertilizers before June, 2021
6.	V60IC	Metabolomic and Proteomic Analytical facility	Dr. U.Sivakumar, Prof Ag Microbiology, Dept of Ag Microbiology, TNAU	<ul style="list-style-type: none"> • VCS software has to be updated • Speed up the process to complete the download form for analysis in portal
7.	V60HK	Enhancing Biogas Promotion and Consultancy of Renewable Energy Gadgets and Systems	Dr. P. Subramanian, Professor and Head Dept. of Renewable Energy, TNAU	<ul style="list-style-type: none"> • Proposal may be sent to University for the revision of analytical charges • VCS may be continued
8.	V60BS	Improvement of Examination Processing systems at Controllerate of Examinations	Dr.K.Soorianathasundaram, CoE, TNAU, Coimbatore	<ul style="list-style-type: none"> • Send a proposal for recruit three technical assistants • VCS may be continued
9.	V60AA	Production and Sale of TNAU Coconut Tonic and Crop Boosters	Dr.M.K.Kalarani, Prof and Head, Dept of Crop Physiology, TNAU	<ul style="list-style-type: none"> • Send a proposal for Change of PI • Utilize the TNAU Youtube channel and Pasumai Vikatan to popularize the crop boosters • Convert in terms of acreage coverage of crop boosters and send the report to DABD, TNAU on or before 31.03.2021 • VCS software has to be updated • Mapping of sale of boosters may be done to increase the revenue and know the impact of the crop boosters
10.	V60EH	<i>Swimming Pool</i>	Dr.Raghavan, Director Physical Education, TNAU	<ul style="list-style-type: none"> • VCS may be continued

11.	V60ET	<i>Modern gym establishment</i>	Dr.Raghavan, Director Physical Education, TNAU	<ul style="list-style-type: none"> VCS may be continued
12.	V60HG	Production of Organic Manures from the Biodegradable wastes	Dr.P.Kalaiselvi, Asst.Prof.(ENS), Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> VCS may be continued
13.	V60AS	Strengthening of Analytical and Advisory Unit	Dr.M.Maheswari, Prof. & Head Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> VCS may be continued
14.	V60DV	Production and sale of seeds, seedlings, fodder and animals	Dr.S.Radhamani, Assoc. Prof (Agron), Department of Agronomy, CFU, TNAU	<ul style="list-style-type: none"> Seed production of Pulse may be replaced with Sunhemp or other remunerative crops
15.	V60EG	Commercial Production of Quality Organic Manure from all Biodegradable wastes	Dr. S K. Natarajan Asst. Prof (Agronomy), Department of Agronomy, CFU, TNAU	<ul style="list-style-type: none"> Develop a model plan for commercial production of organic manure from all bio degradable waste and replicate to other campuses To increase the revenue readymade potting mixture with seeds may be included in the VCS
16.	V60AE	Production of sufficient and nutritious forage for university dairy farm and production of quality Nucleus, Breeders and Truthfully Labeled seeds /planting materials of forage crops	Dr.S.D.Sivakumar Associate Prof (Agron), Dept. of Forage Crops, TNAU	<ul style="list-style-type: none"> Send a proposal for the change of title Explore the possibilities for increasing the revenue Diversify seed production Mismatch between Revenue & Expenditure Send a proposal to purchase machineries for mechanization of seed separation and packing
17.	V60CJ	Strengthening infrastructural facilities and updating the Botanic Gardens	Dr.M.Velmurugan, Asst.Prof.(Horti), HC&RI, TNAU, CBE	<ul style="list-style-type: none"> VCS may be continued

18.	V60AY	Hybrid and varietal seed production of Millets	Dr.R.Ravikesavan Prof and Head, Dept. of Millets, TNAU	<ul style="list-style-type: none"> • VCS may be continued
19.	V60HB	Analytical Services for the Characterization of Nanoparticles	Dr.A.Lakshmanan, Prof. & Head Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> • Speed up the process of getting NABL Accreditation
20.	V60HT	Commercial production Nematode antagonistic bio agents	Dr.G.Jothi, Asst Prof (Nemato), Dept. of Nematology, TNAU	<ul style="list-style-type: none"> • Identify the potential areas to boost the sale of liquid formulation • Start the centralized production and distribute to the needed centres after getting University approval • Register the liquid formulations at CIB&RC and send a report to DABD of the progress made before 31.03.2021 • VCS software has to be updated
21.	V60FT	Seed production in Oilseeds	Dr.R.Sasikala Asst Prof (PBG), Department of Oil Seeds, CPBG, TNAU	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • Increase the revenue by diversifying the oilseed production on sesame, castor and demanding varieties & hybrids
22.	V60GH	Conservation of Plant Genetic Resources	Dr.V.Thiruvengadam Asst Prof (PBG), Dept. of Plant Genetic Resources, CPBG, TNAU	<ul style="list-style-type: none"> • Online meeting may be organized along with DABD about the facilities created for the conservation of plant genetic resources to SAU, ICAR institutions • Seed money has to be repaid
23.	V60BH	Sale of Toxicological data and Mass production of <i>Trichoderma viride</i>	Dr. A. Sudha Asst Prof (Path), Dept. of Plant Pathology, TNAU	<ul style="list-style-type: none"> • VCS software has to be updated • VCS may be continued

24.	V60BF	Mushroom Cultivation Training and Input Supply	Dr. P. Latha Ast Prof (Path), Dept. of Plant Pathology, TNAU	<ul style="list-style-type: none"> • Speed up the process of preparing ready to use mushroom kit for home growing • Chalk out the plan to meet the demand of bed spawn and send a report to DABD before 31.03.2021
25.	V60AB	Mass Production of different plant growth promoting <i>Pseudomonas</i> formulations	Dr. V. Sendhilvel Asst Prof (Path), Dept. of Plant Pathology, TNAU	<ul style="list-style-type: none"> • Send a proposal for change of title • Register the liquid formulations at CIB&RC and send a report to DABD of the progress made before 31.03.2021 • Start the centralized production and distribute to the needed centres after getting University approval / training to the other TNAU centres to produce liquid formulations • Popularize the availability of liquid formulations through Community Radio and TNAU Youtube channel • VCS software has to be updated • Standardize the liquid formulation to suit the online sales
26.	V60CP	Food Processing Business Incubator	Dr.G.Gurumeenakshi, Asso.Prof.(FSN), AEC&RI, TNAU, CBE	<ul style="list-style-type: none"> • Proposal may be sent to DST / DBT / EDII to establish a separate business incubation forum with emphasis on manpower for incubation centre • Efforts for increasing revenue should be explored • VCS may be continued

27.	V60EX	Food Quality Analysis	Dr.Z.John Kennedy, Prof.(Micro Bio.), AEC&RI, TNAU, CBE	<ul style="list-style-type: none"> • Proposal may be sent to get laboratory accreditation (NABL) • Efforts for increasing revenue should be explored • VCS may be continued
28.	V60FU	Seed production in Pulses	Dr.A.Muthuswamy, Assistant Professor, Dept of Pulses, TNAU, Coimbatore	<ul style="list-style-type: none"> • VCS may be closed
29.	V60CQ	Remote Sensing, GIS, Drone based Products, Training and Services	Dr.K.P.Ragunath Asst Prof (SS&AC), Department of RS & GIS, TNAU	<ul style="list-style-type: none"> • Low revenue • Explore the possibilities of drone standardization and popularization • Send a proposal for change of title • VCS software has to be updated
30.	V60FM	Testing of Seeds for Quality Parameters	Dr.P.R.Renganayaki, Prof and Head, Dept. of SST, TNAU	<ul style="list-style-type: none"> • Explore the possibilities to increase the revenue generation • VCS may be continued
31.	V60AZ	Soil Testing and Technology Advisory Centre	Dr.R.Santhi, Director (NRM), Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> • VCS may be continued
32.	V60HE	Production of Designer Micronutrient Fertilizer Mixture for Crops	Dr.D.Jegadeeswari, Asso.Prof.(SS&AC), Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> • Acreage coverage of Designer Micronutrient Fertilizer Mixtures has to be done • To increase the revenue, popularize the Designer Micronutrient Fertilizer Mixtures to other crop growing areas
33.	V60HO	Production and Supply of Nutriseed Packs to Farmers and Crop Production Units	Dr.G.Sridevi, Asst.Prof., Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> • Study the effectiveness of nutri seed packs • Explore the possibilities to increase the revenue

34.	V60IT	Production and distribution of Water Soluble Fertilizers for Fertigation of Crops	Dr.R.K.Kaleeswari, Prof.(SS&AC), Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> • Start the production work as early as possible • Fix the price based on the committee recommendation
35.	V60HX	Frontier Analytical Soil Testing Laboratory	Dr.S.Meena, Prof.(SS&AC), Directorate of NRM, TNAU, CBE	<ul style="list-style-type: none"> • VCS may be continued
36.	V60BE	Mass Multiplication of Elite Coconut Varieties	Dr.B.Senthamizh selvi, Asst.Prof. HC&RI, TNAU, CBE	<ul style="list-style-type: none"> • Explore the possibilities to increase the revenue generation • Estimate the cost of analysis and production
37.	V60HY	Imparting skill on organic inputs production and sale of organic inputs	Dr.R.Sunitha Asst Prof (ENS), DoSOA	<ul style="list-style-type: none"> • VCS may be continued
38.	V60IX	Analysis organic inputs and produces	Dr.R.Sunitha, Asst.Prof.(ENS)	<ul style="list-style-type: none"> • VCS may be continued
39.	V60CC	Digital Video Production on Agriculture in Compact Disc	Dr. M. Senthilkumar, Asst.Prof.(Agrl.Extn.), Directorate of Extension Education, TNAU, CBE	<ul style="list-style-type: none"> • VCS may be continued
40.	V60HR	Production sale of pork, Chevon and breed able kids	Dr.M.Thirunavukkarasu, Assistant Professor, Dept of Animal Husbandry, TNAU, Coimbatore	<ul style="list-style-type: none"> • VCS may be continued
41.	V60IQ	VCS Operation and maintenance	Dr.S.D.Sivakumar Director(ABD) TNAU, Coimbatore	<ul style="list-style-type: none"> • VCS may be continued
42.	V60JI	Operation and Maintenance of Back hoe loader (JCB) and custom hiring	Dr. N. Sakthivel Asso. Prof. (Agronomy), TNAU, Coimbatore	<ul style="list-style-type: none"> • Send a proposal for change of title • Based on the operational cost, revise the rate and fix the price through sale price committee

43.	V60KE	Hands on experimental training in Plant Biotechnology, Bioinformatics and Biochemistry	Dr. K. K. Kumar Associate Professor (Biotech.) CPMB&B, TNAU, Coimbatore	<ul style="list-style-type: none"> • Initiate the activities at the earliest
44.	V60EN	Bioinoculant production and their quality control	Dr.K.Kumutha, Prof and Head, Dept. of Agrl.Microbiology, AC&RI, MDU	<ul style="list-style-type: none"> • Principle approval may be obtained for the purchase of non-recurring items
45.	V60FW	Commercial seed production	Dr.R.Duraisingh, Professor & Head, Dept. of Agronomy, AC&RI, MDU	<ul style="list-style-type: none"> • Seed grain conversion may be expedited and disposed at the earliest • Send Change of PI request
46.	V60GP	Commercial production of large white Yorkshire Pig, poultry and goat rearing for small farmers	Dr.S.Saravanan, Dept. of Agronomy, AC&RI, MDU	<ul style="list-style-type: none"> • Purchase of non-recurring items proposed for Rs. 15.5 lakhs may be expedited
47.	V60AW	Multiplication of Fruit crops and Seed production of Vegetables	Dr.C.Rajamanickam, Asst.Prof. Dept. of Horticulture, AC&RI, MDU	<ul style="list-style-type: none"> • Efforts may be taken to increase the income
48.	V60BL	Production and training of mushroom spawn and organic biocides	Dr. M. Theradimani Professor & Head, Dept. of Plant Pathology, AC&RI, MDU	<ul style="list-style-type: none"> • Awareness about the efficacy of <i>Bacillus subtilis</i> Bbv57 in plant disease management may be improved among the extension officials and farmers to increase the sales
49.	V60EZ	Production of Coconut tonic	Dr.T.Sivakumar Asso. Prof (CRP), AC&RI, MDU	<ul style="list-style-type: none"> • Explore the possibilities of online sales to ensure door step delivery • Efforts may be taken to increase the income • Training on technology adoption component may be included
50.	V60EO	Soil Plant Analytical Advisory Centre	Dr.P.Kannan, Asst.Prof., Dept. of Soils & Environment, AC&RI, MDU	<ul style="list-style-type: none"> • Efforts may be taken to increase the income

51.	V60CF	Compost Production through Vermi technology	Dr.R.Jayashree, Asst.Prof. Dept. of Soils & Environment, AC&RI, MDU	<ul style="list-style-type: none"> • Explore the possibilities of online sales to ensure door step delivery • Efforts may be taken to increase the income • Training on technology adoption component may be included
52.	V60JN	Manufacturing and Distribution of Emulsified Quality neem oil EC formulation	Dr.K.Senthil, Asst.Prof.	<ul style="list-style-type: none"> • Principle approval may be obtained for the purchase of non-recurring items • Publicity may be done through MABIF, FPOs and newspaper advertisements
53.	V60IK	Analysis of Pesticide residue in harvested produce of farm gate, market sample, food material and nutrient analysis in soil	Dr.Zadda Kavitha, Asst. Prof. Dept. of Agrl. Entomology, AC&RI, MDU	<ul style="list-style-type: none"> • Explore the possibility of getting NABL accreditation to the laboratory
54.	V60JY	Commercial production and supply of biocontrol agents and bee keeping	Dr.J.Jayaraj, Prof.	<ul style="list-style-type: none"> • Purchase of non-recurring items approved may be expedited • Target may be achieved as per the govt. indent
55.	V60JB	Secondary metabolite and Micronutrient content analysis in harvested produce for Agriculture and nutrient society	Dr.S.Vellaikumar, Asst.Prof.	<ul style="list-style-type: none"> • Training may be proposed for staff as well as students
56.	V60DD	Production and Sale of TNAU Coconut tonic	Dr.J.Rajkumar, Asst.Prof., Dept. of PBG, AC&RI, KKM	<ul style="list-style-type: none"> • Send a proposal for Change of title and include all crop boosters • Explore the possibilities to increase the revenue generation
57.	V60JA	Establishment of IFS model for Dry land eco system	Dr. G. Kumar Asst. Prof. (VAS)	<ul style="list-style-type: none"> • VCS may be continued

58.	V60JX	Establishment of Institutional Custom hiring centre (ICHC) to cater the needs of small and marginal farmers	Dr.D.Rajakumar, Asst.Prof.(Agro.)	<ul style="list-style-type: none"> Follow university norms for fixing custom hiring charges
59.	V60CX	Production of Foundation and Certified seed in Rice	Dr.D.Rajakumar Asst Prof (Agron), Dept. of Agronomy, AC&RI, KKM	<ul style="list-style-type: none"> Send a revised sale price by working out the Cost of Production, Marketing Cost, Margin along with comparative price of prevailing competitive market prices to the sale price committee and a copy of the same may be communicated to DABD, TNAU
60.	V60FA	Production of Truthfully labeled seeds in major vegetable crops	Dr. C. Ravindran Asst. Prof (Horti), Department of Horticulture, AC&RI, KKM	<ul style="list-style-type: none"> VCS may be continued
61.	V60FR	Production and Sale of Beneficial Microbial Products for plant disease management and mushroom production	Dr.N.Rajinimala, Asst.Prof. AC&RI, Killikulam	<ul style="list-style-type: none"> Appreciations for the PIs/Co-PIs for increasing the revenue by 11 times than last year
62.	V60CY	Production and Sale of Bio inputs	Dr.Jeberlin Prabina, Assoc Prof Dept. of SS&AC, AC&RI, KKM	<ul style="list-style-type: none"> Explore the possibilities to increase the revenue generation
63.	V60IY	Soil-Water Crop Analytical Advisory Centre (SWAAC)	Dr.B.Bhakiyathu Saliha, Asso.Prof.(SS&AC)	<ul style="list-style-type: none"> Strategies may be explored to increase the revenue
64.	V60HW	Breeder seed production of TNAU released Rice and Blackgram varieties suited for Thoothukudi and Tirunelveli districts	Dr.S.Saravanan Asst Prof (PBG), Dept. of PBG, AC&RI, KKM	<ul style="list-style-type: none"> Farmer participatory mode may be planned for seed production
65.	V60IZ	Commercial production of honey bee colonies and products, silkworm cocoons and biocontrol agents	Dr. G. Preetha Asst Professor (Ento.)	<ul style="list-style-type: none"> Collect the details on number of entrepreneurs developed through training and send the report to DABD

				<p>before 15.04.2021</p> <ul style="list-style-type: none"> • Entrepreneurial clusters may be formed for honey bee production and cocoon production
66.	V60EP	Developing Vermicompost production unit and conducting training on solid waste management through vermiculutre	Dr.S.Rathika Asst Prof (Agron), ADAC&RI, Trichy	<ul style="list-style-type: none"> • Economics of production may be estimated and sent to DABD, TNAU before 15.02.2021 • Explore the possibilities to target the urban market
67.	V60EV	Production of Biofertilizers for salt affected soils	Dr. M.Sundar Prof (Micro), ADAC&RI, Trichy	<ul style="list-style-type: none"> • Send a proposal to the Director of Agriculture & JDAs about the availability of specific strains of bio fertilizers for salt affected soils • In farmers field, trials of the specific strains of bio fertilizers for salt affected soils may be taken up & field days may be arranged to popularize • Leaflets with availability of specific strains on bio fertilizers of salt affected soils and contact details may be distributed to the farmers coming to this college.
68.	V60IJ	Analytical and training services at Centre of Excellence in sustaining soil health	Dr.D.Janaki Asst. Prof., ADAC&RI, Trichy	<ul style="list-style-type: none"> • Arrange meetings with other colleges, FPOs and export firms & get additional samples for analysis • Proposal may be sent to get laboratory accreditation (NABL) before 31.03.2021

69.	V60GO	Mass production of biocontrol agents (<i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>)	Dr.P.T.Sharavanan Asst.Prof (Path), ADAC&RI, Trichy	<ul style="list-style-type: none"> • Send a proposal for the change of title
70.	V60HS	Beekeeping in Fallow Lands and commercial cocoon production	Dr.S.Sheeba Joyce Roseleen Asst. Prof. (Ento), ADAC&RI, Trichy	<ul style="list-style-type: none"> • Add additional components on analytical services for honey purity check and Pollination service and send the proposal for approval
71.	V60II	Mushroom spawn production and training	Dr.V.K.Satya, Asst.Prof. ADAC&RI, Trichy	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • Seed money has to be repaid
72.	V60IV	Food Safety and Residue Analysis of Agri-Horti Produces and Commercial Production of Biocontrol Agents	Dr. P. Yasodha, Asst. Prof. (Ento.)	<ul style="list-style-type: none"> • Proposal may be sent to get laboratory accreditation (NABL) before 31.03.2021 • Seed money has to be repaid periodically
73.	V60EE	Production and supply of teak and other tree seedlings	Dr.M.Dhandapani, Asst. Prof. AEC&RI, Kumulur	<ul style="list-style-type: none"> • Economics of production may be estimated and sent to DABD, TNAU before 15.02.2021 • To increase the seedling production, purchase of shade net may be included in the next financial year 2021-22 budget estimate • Teak cultivation technology may be disseminated through Zonal meetings conducted at JDA office, Trichy • To identify the hotspot areas for teak cultivation in the nearby districts and farmers cluster may be formed to disseminate teak cultivation

				<p>technology</p> <ul style="list-style-type: none"> • Inform the availability of forestry seedlings to those who are involved in afforestation programme
74.	V60FD	Manufacturing and marketing of agricultural machineries	Dr.P.K.Padmanathan Ass Prof (FMP), AEC&RI, Kumulur	<ul style="list-style-type: none"> • Send a proposal to National Skill Development Corporation for training to rural youth and student • Efforts to increase the revenue should be explored
75.	V60JK	Custom hiring of Agricultural Machinery and Implements	Dr.S.S.Sivakumar, Prof. & Head	<ul style="list-style-type: none"> • Initiate the activities and send the progress report
76.	V60JH	Manufacturing and marketing of bakery products	Dr.S.Parveen, Asst. Prof.	<ul style="list-style-type: none"> • Send a proposal for the change of title and include all the components related to agricultural processing • Include all the activities related to all agriculture processing under this VCS
77.	V60JJ	Production and sale of Micro nutrient fertilizer Mixture, vermicompost and panchagavya for crops	Dr.A.Bharani, Asso.Prof.	<ul style="list-style-type: none"> • Initiate the activities and send the progress report
78.	V60BJ	Production and supply of seedlings of <i>Jatropha curcas</i> and other tree seedlings	Dr.P.Rajendran Asso.Prof. (Forestry), FC&RI, Mettupalayam	<ul style="list-style-type: none"> • Proposal may be sent to change the title of the VCS • Propose Co-PI, required personnel to meet the indent given by the Govt. and Private sector • A register may be maintained for the entry of demand of seedlings from various agencies and supply of seedlings • Develop green house for production of

				<p>clonal seedlings using modern technology</p> <ul style="list-style-type: none"> • Clones of released and pre-released culture has to be multiplied and sell the seedlings to the need based customers • Training will be given to farmers on clonal technology and produce the required seedlings • Expand the nursery and use clonal technologies for multiplication of seedlings of various tree crops • Respond to indents demanding seedlings
79.	V60ES	Bio resources Development and Capacity Building	Dr.M.Tilak, FC&RI, Mettupalayam	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • Propose Co-PI • Enriched vermicompost production has to be taken up • Scale up the production and marketing • Explore the nutritional pellet for nursery or plantation crops • The nurseries in the forest college make an arrangement to purchase vermicompost and VAM for potting mixture preparation • Efforts has to be taken to sell the VAM to private nursery • Study the entrepreneurial model of

				Ashwin Biotech, Vellore about the demand and supply of vermicompost and VAM
80.	V60GW	Production , Popularization and sale of quality planting stock and value added products for the timber species grown in TamilNadu	Dr.R.Ravi Asst.Prof., (Forestry), FC&RI, Mettupalayam	<ul style="list-style-type: none"> Recruit carpenter / artisan to make value added tree products Conduct a training on Value added tree products to students
81.	V60HF	Production and supply of Industrial Wood Species	Dr.P.S.Devanand Asst. Prof.(PB&G), FC&RI, Mettupalayam	<ul style="list-style-type: none"> Fix the seedling price through Sale price committee Diversify the production of seedlings of different tree species Do grafting or cloning for neem seedling production Expediate the sales to overcome the negative balance
82.	V60IA	Elite planting stock production for commercial and Urban utility	Dr. M. Sivapraksh Asst. Prof. (Forestry), FC&RI, Mettupalayam	<ul style="list-style-type: none"> Clones of released and pre-released culture has to be multiplied and sold to the need based customers Supply the seedlings demanded from Isha Foundation & other agencies
83.	V60JM	Slatted Goat Farming	Dr.S.Umesh Kanna, Asso.Prof.	<ul style="list-style-type: none"> Follow the University purchase procedure and complete the bill settlement for non-recurring items Initiate the production as early as possible
84.	V60JZ	Production, Extraction, Quality Assay and Capacity Building on Natural Dyes	Dr.S.Umesh Kanna, Asso.Prof.	<ul style="list-style-type: none"> Change the PI and propose Dr. P. Radha, Asst. Prof. (Bio Chem.), Dept. of Forest Biology & Tree Improvement, FC&RI, Mettupalayam

85.	V60KC	Commercial Production of Mulberry Saplings	Dr.R.Shanmugam, Asst. Prof.	<ul style="list-style-type: none"> • Workout the cost of production of mulberry saplings • Standardize mini clonal technology for mulberry sapling production • Training will be given to farmers on clonal technology and produce the required saplings • Market promotional activities in the sericulture belt may be undertaken
86.	V60KD	Commercial cocoon and craft production	Dr.P.Priyadharshini, Asst.Prof.	<ul style="list-style-type: none"> • Follow the University purchase procedure and complete the bill settlement for non-recurring items • Training may be given to students and farmers on seri craft technology • Before March, 2021 start the cocoon production and initiate training
87.	V60HJ	Development of novel Nutritious Bakery, Extruded and Expanded products, RTE Foods and Capacity Building, Analytical services and Consulting Services to Stake Holders	Dr.V.Meenakshi Asst Prof (FSN), Dept. of FSN, CSC&RI, MDU	<ul style="list-style-type: none"> • Training fees may be revised based on expenditure & honorarium and the revised training fees proposal may be sent to University for approval
88.	V60GI	Imparting skill training to the SHG, Entrepreneurs on processed food products unit renting and publication	Dr.K.P.Sivakumar, Asst Prof., Dept. of Extension Education & Comm. Mgmt, CSC&RI, MDU	<ul style="list-style-type: none"> • Training fees may be revised based on expenditure & honorarium and the revised training fees proposal may be sent to University for approval
89.	V60IB	Value addition of fruits and vegetables and empowering rural people through training	Dr.K.Jothilakshmi, Asst.Prof. Dept. of Human Development and Family Studies, CSC&RI, MDU	<ul style="list-style-type: none"> • Analysis of Fruit and Vegetable may be included

90.	V60GF	Production of Ornamental and Medicinal Plants	Dr. P.Arul Arasu, Asst. Professor (Horti.) Department of Floriculture and Landscape Architecture, HC&RI, PKM	<ul style="list-style-type: none"> • Increase ornamental plants like Edward rose, ixora, landscape trees production • Based on the Centralized sales centre, plan the production • Popularize through PHBIF and website
91.	V60AJ	Production of Quality Fruit Plants and Agro Forestry Seedlings	Dr.S.Muthuramalingam, Asst. Prof. Dept. of Fruit Science, HC&RI, PKM	<ul style="list-style-type: none"> • Area coverage may be worked out • VCS may be continued
92.	V60GC	Strengthening Commercial Food Processing, Training programme including production of value added products	Dr.V.Vani Asst Prof (Home Science), Dept. of Fruit Science, HC&RI, PKM	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • Sales projection for the year 2021-22 may be reported
93.	V60JG	Commercial sheep and Goat Farming Unit	Dr.S.Muthuramalingam, Asst. Prof.	<ul style="list-style-type: none"> • Send the proposal for Change of PI and Co-PI • Send a separate proposal for skilled worker
94.	V60GL	Production of high yielding seed and plant materials of Spices and Coconut	Dr.R.Chitra Asst Prof (Horti), Dept. of Spices & Plantation Crops, HC&RI, PKM	<ul style="list-style-type: none"> • Send the proposal for inclusion of coconut seedling production and pepper rooted cuttings • Efforts for increasing revenue should be explored
95.	V60FB	Production and sale of Coconut tonic	Dr.P.Malathi, Asst. Prof.	<ul style="list-style-type: none"> • Scheme may be merged with V60JO and the sale of coconut tonic may be increased
96.	V60DN	Production of biocontrol agents for fruit crops, vegetable crops and plantation crops	Dr.R.Vimala, Prof. HC&RI, PKM	<ul style="list-style-type: none"> • Discrepancies of recurring expenditure and revenue generation • Efforts for increasing revenue should be explored

97.	V60JE	Soil and Water testing and advisory service	Dr.K.M.Sellamuthu, Asso.Prof.	<ul style="list-style-type: none"> • Make aware of the services available through advertisement in newspaper/All India Radio/community radio/HODs of other colleges/JDA/DDH/FPO
98.	V60JO	Production of Biofertilizers and Vermicompost for fruits, vegetables and plantation crops	Dr.R.Poorniammal, Asst. Prof.	<ul style="list-style-type: none"> • VCS may be continued
99.	V60IP	Establishment of commercial Nursery centre for Horticultural crops	Dr.K.Kumanan Asst Prof (Horti), HC&RI Women, TRY	<ul style="list-style-type: none"> • VCS is progressing well
100.	V60IN	Establishment of Commercial Fodder Block and Poultry Production Centre	Dr.V.Arunkumar, Asst. Prof. (SS&AC), AC & RI, Vazhavachanur	<ul style="list-style-type: none"> • Repay the balance seed money • Efforts for increasing revenue should be explored • Get approval from the University for repayment of balance seed money and IC
101.	V60IW	Production of vermicompost, earthworms, vermiwash and panchakavya for sustainable farm productivity and profit	Dr.A.Krishnaveni, Asst.Prof.	<ul style="list-style-type: none"> • Repay the seed money within three years • Take an effort for the production of other products mentioned in the title • Efforts for increasing revenue should be explored
102.	V60KF	Commercial production of planting materials in horticulture and forest crops	Dr. A. Baskaran Associate Professor (Hort.)	<ul style="list-style-type: none"> • Initiate the activities
103.	V60KH	Commercial production of Biofertilizers	Dr. R. Brindavathy Associate Professor (Ag. Micro.)	<ul style="list-style-type: none"> • Initiate the activities
104.	V60KI	Commercial production of microbial antagonists	Dr. M. Deivamani, Assistant Professor	<ul style="list-style-type: none"> • Initiate the activities

105.	V60IS	Commercial Production of Bioinoculants for Cauvery Delta Region	Dr. S. Mathiyazhagan Asst Prof (Path), AC&RI, Eachangkottai	<ul style="list-style-type: none"> • VCS is progressing well
106.	V60JL	Commercial seed production of Rice, Pulses and Tree/Plant sapling for Cauvery Delta zone	Dr.A.Bharathi, Asst.Prof.	<ul style="list-style-type: none"> • Speed up the activities
107.	V60KA	Production and distribution of quality coconut seedlings	Dr.K.S.Vijai Selvaraj, Asst.Prof.(Hort.)	<ul style="list-style-type: none"> • Speed up the activities
108.	V60IU	Commercial Production of Vermicompost and providing trainings to the students and farmers	Dr.M.Baskar, Asso.Prof	<ul style="list-style-type: none"> • Economics of production may be estimated and sent to DABD, TNAU before 15.02.2021 • The PI's efforts to create awareness through Makkal TV, Community Radio and Youtube, increase the sale of vermicompost and also private nursery tie-up are appreciated
109.	V60JP	TFL seed production	Dr.K.Annadurai, Principal	<ul style="list-style-type: none"> • Follow the University purchase procedure and complete the purchase before this financial year 2020-21 • VCS is progressing well and may be continued
110.	V60JQ	Commercial Production of Bio inoculants (Bio fertilizers and bio control agents) and providing trainings to the students and farmers	Dr.W.Baby rani, Prof.	<ul style="list-style-type: none"> • Economics of production may be estimated and sent to DABD, TNAU before 15.02.2021 • VCS is progressing well and may be continued • To create more awareness about the products and services available in this VCS through popular articles in mass

				media, Community Radio / All India Radio Talks and communication to District level officials of various agriculture and allied departments & KVK in the region
111.	V60JF	Production of quality, Seeds in pulses in Agricultural crops	Dr.K.Bharathi Kumar Assistant Professor (PBG)	<ul style="list-style-type: none"> • Send a closure proforma • VCS may be closed
112.	V60BI	Production of foundation seeds of popular rice varieties through System of Rice Intensification	Dr. Vakeswaran, Asst. Prof. (SST), ARS, Bhavanisagar	<ul style="list-style-type: none"> • RF and VCS have same objectives. • VCS may be closed
113.	V60DM	Mass Production of <i>Trichoderma viride</i> , <i>Pseudomonas fluorescens</i> and <i>Pleurotus</i> spp	Dr. Sangeetha Panicker Prof. (Pl. Patho.), ARS, Bhavanisagar	<ul style="list-style-type: none"> • Title may be changed • Efforts for increasing revenue should be explored • Scale up the production and marketing • Explore the possibilities of inclusion of Bacillus production
114.	V60ED	Commercial production and distribution of vermicompost and soil analytical advisory services	Dr. D. Muthumanickam Prof. (SS&AC), ARS, Bhavanisagar	<ul style="list-style-type: none"> • VCS may be closed as per the Vice-Chancellor remarks
115.	V60EM	Production and distribution of popular varieties/hybrids coconut seedlings	Dr.K.Ganesan, Asst. Prof. ARS, Bhavanisagar	<ul style="list-style-type: none"> • Efforts for increasing production of coconut seedlings
116.	V60IG	Commercial production of <i>Beauveria</i> and <i>Metarhizium</i>	Dr.K.Ganesan, Asst. Prof. ARS, Bhavanisagar	<ul style="list-style-type: none"> • Wide publicity may be given for Beauveria and Metarhizium • Fall army worm package

117.	V60BO	Production and distribution of Coconut seedlings fruits and ornamental plants, TFL seeds of paddy and vegetables	Dr. M.Tamil Selvan Asst Prof (Horti), ARS, Pattukottai	<ul style="list-style-type: none"> Explore the possibilities for increase the revenue generation
118.	V60FN	Commercial production of vermicompost and Azolla and elite planting materials	Dr.R.Latha, Asst. Prof. ARS, Thirupathisaram	<ul style="list-style-type: none"> VCS may be continued
119.	V60BQ	Commercial production of seedlings Mushroom spawn and <i>Trichoderma viride</i>	Dr.S.Nanthakumar, Prof. & Head ARS, Virinjipuram	<ul style="list-style-type: none"> VCS may be continued
120.	V60IM	Commercial Production of Bio fertilizer and wildboar repellent	Dr. P. Thilagam Asst. Prof (Ag. Ento.) ARS ,Virinjipuram	<ul style="list-style-type: none"> Commercialize the wild boar repellent Study the impact of the wild boar repellent
121.	V60DZ	Vermicomposting of coconut fronds and wastes	Dr.C.Sudhalakshmi, Asst. Prof (Soil Sci.), CRS, Aliyarnagar	<ul style="list-style-type: none"> Economics of production may be estimated and sent to DABD, TNAU before 31.01.2021 VCS may be continued
122.	V60EA	Mass production of biocontrol agents viz., <i>Trichoderma viride</i> and <i>Pseudomonas fluorescens</i>	Dr.E.Rajeswari, Asso. Prof. (Pl. Patho.), CRS, Aliyarnagar	<ul style="list-style-type: none"> Proposal may be sent to change the title of the scheme as "Mass production of bio control agents" VCS may be continued
123.	V60CR	Production and Distribution of Coconut Seedlings	Dr.C.Sudhalakshmi Assistant Professor CRS, Aliyarnagar	<ul style="list-style-type: none"> Economics of production may be estimated and sent to DABD, TNAU before 31.01.2021 VCS may be continued
124.	V60GQ	Production of <i>Bracon brevicornis</i>	Dr.M.Alagar, Asst. Prof. (Agrl. Ento.), CRS, Aliyarnagar	<ul style="list-style-type: none"> Economics of production may be estimated and sent to DABD, TNAU before 31.01.2021 The PI's efforts for online sale of Bracon brevicornis and whatsapp

				<p>advice to the farmers are appreciated</p> <ul style="list-style-type: none"> • VCS may be continued
125.	V60HZ	Soil Fertility Assessment and Advisory Centre (SOFAAC)	Dr.C.Sudhalakshmi, Asst. Prof (Soil Sci.), CRS, Aliyarnagar	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • VCS may be continued
126.	V60FF	Production and distribution of Trichoderma viride and Pseudomonas fluorescens and enriched vermicompost with beneficial microorganisms and Entomophages, Encarsia, Dichochrysus etc.	Dr. M.Surulirajan Asst Prof (Path), CRS, Veppankulam	<ul style="list-style-type: none"> • Send a proposal for change of title • Update the VCS software • Explore the possibilities for increase the revenue generation
127.	V60CK	Production and distribution of TNAU coconut tonic	Dr.R.Arun Kumar, Asst. Prof. CRS, Veppankulam	<ul style="list-style-type: none"> • Explore the possibilities for increase the revenue generation
128.	V60GJ	Mass production of bio-control agents, seedlings, value added products and training	Dr. K.Sakthivel Asst Prof (PBG) Cotton Research Station, Veppanthattai	<ul style="list-style-type: none"> • Explore the possibilities for increase the revenue generation
129.	V60HU	Establishment and operation of bakery production unit	Dr.Sheeba Asso Prof.(SS&AC) DARS, Chettinad	<ul style="list-style-type: none"> • VCS may be continued with additional components
130.	V60GT	Production of quality material in ornamentals commercial flower crop aquatic ornamental and inputs for flower crops	Dr.G.Ashokkumar, Asst. Prof.(Hort.) Floriculture Research Station, Thovalai	<ul style="list-style-type: none"> • Strategies may be explored to increase the revenue
131.	V60HQ	Mass multiplication of rootstocks and production of grapes varieties	Dr. A. Subbiah Asst Prof (Horti),GRS, Theni	<ul style="list-style-type: none"> • Send a proposal for change of title and include banana
132.	V60JR	Mass multiplication of bio control agents and biofertilizers	Dr.S.Saraswathy, Prof.& Head	<ul style="list-style-type: none"> • VCS may be continued

133.	V60BU	Production of elite propagation materials of temperate crops and essential oils	Dr.I.Muthuvel Assoc. Prof. and Head, HRS, Kodaikanal	<ul style="list-style-type: none"> • VCS may be continued
134.	V60CW	Mass Production and supply of Medicinal and Aromatic plants, Distillation of Aromatic oils, Mass Production of Biofertilizers and Biocontrol Agents and Production of Mushroom (Oyster & Button), Mushroom Spawns & Pasteurized Compost	Dr.Keisar Lourdusamy, Associate Professor & Head, HRS, Ooty	<ul style="list-style-type: none"> • VCS may be continued
135.	V60CH	Production of Clonal planting material of spices and maintenance of Model Rubber Farm for educating TNAU students	Dr. S.T.Bini Sundar, Assistant Professor (Horti.), HRS, TNAU, Pechiparai	<ul style="list-style-type: none"> • VCS may be continued
136.	V60DS	Commercial Production of Honey and Vermicompost	Dr. T. Senthilkumar Asst Professor (Agron.), HRS, TNAU, Pechiparai	<ul style="list-style-type: none"> • VCS software has to be updated • If the revenue continued in the same trend VCS may be closed
137.	V60BG	Production of Elite Planting materials of Horticulture Crops	Dr. T. Thangaselvabai Prof & Head, HRS, Thadiyankudisai	<ul style="list-style-type: none"> • Workout the acreage coverage • VCS may be continued
138.	V60BA	Production of biocontrol agents viz., pseudomonas fluorescens and Trichoderma viride	Dr.S.Easwaran, Asso. Prof., HRS, Thadiyankudisai	<ul style="list-style-type: none"> • No activity • While procuring the material from HC&RI, Periyakulam / AC&RI, Madurai it is difficult to meet out the transport cost
139.	V60AH	Mass production of Horticultural plants	Dr.M.Anand HRS, Yercaud	<ul style="list-style-type: none"> • Include other demanded horticultural crop seedlings like pepper • Speed up the process of opening

				Sales Counter in front of the station gate to increase the sales
140.	V60AG	Mass production of biocontrol agents viz., <i>Pseudomonas</i> and <i>Trichoderma</i>	Dr.M.Anand HRS, Yercaud	<ul style="list-style-type: none"> Remove <i>Pseudomonas</i> and send a proposal for change of title
141.	V60AL	Mass production of earthworms, vermicompost and VAM	Dr.P.R.Kamal Kumaran HRS,Yercaud	<ul style="list-style-type: none"> Liquid formulation of bio fertilizers & Bacillus
142.	V60HC	Commercial production of biocontrol agents and biofertilizers	Dr. P. Ahiladevi Asst Prof (Path), NPRC, Vamban	<ul style="list-style-type: none"> VCS may be closed
143.	V60DK	Production of Vermicompost utilizing farm waste	Dr.P.Mareeswari, Asst.Prof.(Pl. Patho.) RRS, Aruppukottai	<ul style="list-style-type: none"> Efforts for increasing revenue should be explored Institutional charges may be paid upto December, 2020 One Kg, 5 Kg and 10 Kg vermicompost packing may be introduced to target the general public
144.	V60DL	Commercial production of graft, budded plants semi-arid crops an drought	Dr. K.R.Rajadurai Asst Prof (Horti), RRS, Aruppukottai	<ul style="list-style-type: none"> Efforts for increasing revenue should be explored Institutional charges may be paid up to December, 2020 Entrepreneurship training on value addition prospects for these crops may be conducted Revised sale price for grafts of the Arid Zone Fruit seedlings may be fixed in consultation with HC & RI, Coimbatore and HC & RI, Periyakulam Forest, native and ornamental tree species Seedlings production may be

				<p>included</p> <ul style="list-style-type: none"> • Crop clusters – Farmer Producer Group, FPO may be formed for these crops
145.	V60DB	Mass Production of mushroom spawn and biocontrol agents	Dr. P. Mareeswari Asst Prof (Path), RRS, Aruppukottai	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • Institutional charges may be paid upto December, 2020 • Ready to use mushroom kit may be designed in view of new entrepreneurs / growers • Mushroom Day / Mela has to be organized to popularize the mushroom production • Revised training charges may be fixed by including the cost of food, refreshment and mushroom kit charges with the approval of committee members • Revised sale price for spawn bags and fresh mushroom may be fixed in consultation with Director, CPPS, Coimbatore
146.	V60DC	Popularization of Telicherry goats among farmers of Virudhanagr dt.	Dr.S.Srinivasan, Asst. Prof. RRS, Aruppukottai	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • Institutional charges may be paid upto December, 2020
147.	V60AM	Mass Production of Bio-Inoculants	Dr.P.C.Prabu RRS, Paiyur	<ul style="list-style-type: none"> • Efforts for increasing revenue should be explored • VCS may be continued

148.	V60BY	Vermicompost Production	Dr.P.Parasuraman, Prof. & Head RRS, Paiyur	<ul style="list-style-type: none"> • Include Paddy seeds and Coconut seedling production and send a revised VCS proposal to increase the revenue
149.	V60BD	Seed production of rice, pulses, oil seeds, vegetables and flowering ornamentals	Dr.M.Bhaskaran, Prof. & Head RRS, Tirur	<ul style="list-style-type: none"> • Mismatch between Revenue & Expenditure • Send the report for Acreage coverage of TKM Variety
150.	V60JS	Production of talc based bio-formulation, vermicompost & vermiwash production and production of quality planting material of mango	Dr.M.Bhaskaran, Prof. & Head	<ul style="list-style-type: none"> • Send a proposal for change of title and include mushroom production and training
151.	V60DG	Production of seeds of sugarcane varieties (Sugarcane setts)	Dr.M.Sakilla, Asst.Prof.(PBG) SRS, Sirugamani	<ul style="list-style-type: none"> • Include all the activities related to sugarcane production like sugarcane sett production, bio-input production, jaggery production and training under this VCS • Send a proposal for the change of title and include all the components • Speed up the process of establishment of jaggery unit • Send a proposal for inclusion of skilled labour in this VCS
152.	V60DX	Production of hybrid castor seed under contract farming system	Dr.P.Arutchenthil, Asso. Prof. (PBG), TCRS, Yethapur	<ul style="list-style-type: none"> • Send closure proforma for the closure of VCS
153.	V60CE	Production of CO2 and CO3 cassava seed material	Dr.P.S.Kavitha, Asst. Prof. (Hort.), TCRS, Yethapur	<ul style="list-style-type: none"> • VCS may be continued

154.	V60BC	Production of TNAU coconut tonic and castor gold for North western zone of Tamil Nadu	Dr.P.S.Kavitha, Asst.Prof.(Hort.) TCRS,Yethapur	<ul style="list-style-type: none"> • VCS may be continued
155.	V60CU	Production of biofertilizers for Cauvery Delta Zone	Dr.T.Sivasankarai Devi, Asst.Prof. TRRI, Aaduthurai	<ul style="list-style-type: none"> • Explore the possibilities to increase the revenue generation
156.	V60HN	TFL Seed Production of Paddy and Blackgram Seeds	Dr.K.Chitra, Asst.Prof. TRRI, Aaduthurai	<ul style="list-style-type: none"> • Send change of PI proposal • Update VCS software • Workout acreage coverage • Transfer the interest to main
157.	V60ID	Production of commercial formulations of bio control agents, mushroom spawn and tree killer	Dr.K.Chitra, Asst.Prof. TRRI, Aaduthurai	<ul style="list-style-type: none"> • Explore the possibilities to increase the revenue generation • Update the VCS Software • Within three years seed money has to be repaid
158.	V60JT	Commercial production and supply of breeder seed	Dr.D.Sasikumar, Asso.Prof.	<ul style="list-style-type: none"> • Contact the seed producers, state seed farms and institutions to promote sales
159.	V60JU	Commercial production of myco-insecticides and egg parasitoids	Dr.P.Anandhi, Asst.Prof.	<ul style="list-style-type: none"> • Speed up the activities
160.	V60JV	Commercial exploitation of the grain quality lab for empowering the farmers and researchers through analytical support	Dr.R.Pushpa, Asst. Prof.	<ul style="list-style-type: none"> • Create awareness to all academic institutions about this facilities
161.	V60JW	Production of quality coconut seedlings	Dr.S.Elamathi, Asst. Prof	<ul style="list-style-type: none"> • Report the non-availability of seed nuts and initiate the activities
162.	V60KB	Development of rice based Integrated Farming System	Dr.V.Ambethgar, Director	<ul style="list-style-type: none"> • Update the VCS Software periodically

163.	V60AI	Strengthening Commercial Horticulture Training Programmes including Consultancy and Food Product Preparation to Urban Public, NGO's, Government and Private Institutions	Dr.K.R.Vijayalatha Assistant Professor (Hort.) TNAU-Information training Center, Chennai	<ul style="list-style-type: none"> • Send a proposal for additional Co-PI • Send a proposal for skilled worker / technical assistant • Certificate course may be conducted to increase the revenue • Send a proposal for selling of other VCS inputs
164.	V60AO	Production of Elite Plants and Quality seeds of Horticultural Crops	Dr.V.Vijayageetha, Asst.Prof. VRS, Palur	<ul style="list-style-type: none"> • Explore the possibilities for increasing the revenue • Online sale may be explored • Workout the acreage coverage • VCS may be continued
165.	V60AP	Production of truthfully labelled seeds of Rice and Pulses	Dr.S.Ganapthy, Asst.Prof.(PBG) VRS, Palur	<ul style="list-style-type: none"> • Update the VCS Software • Explore the possibilities for increasing the revenue
166.	V60ER	Production of High yielding and Quality Jack Grafted plants	Dr.K.Senthamizh, Asst. Prof. (Nem.), VRS,Palur	<ul style="list-style-type: none"> • Explore the possibilities for increasing the revenue • Popularize the VCS activities
167.	V60IE	Seed production in Pulses and Seed Cane	Dr. R.Sudhagar Assoc. Professor (PB&G) Sugarcane Research Station , Melathur	<ul style="list-style-type: none"> • VCS may be continued
168.	V60IF	Production of talc based bio-formulation of <i>Trichoderma viride</i>	Dr.M.Rajesh, Asst. Prof. (Pl. Patho.), Centre of Excellence in Millets, Athiyandal	<ul style="list-style-type: none"> • Within three years seed money has to be repaid • Include few more biocontrol agents, to increase the revenue • Update the VCS software

169.	V60IH	Production and supply of sugarcane seed cane / SSI seedlings / tissue culture seedlings, crop boosters, SSI tonic, egg parasite and value added products for increasing sugarcane productivity and effective utilisation of by-products	Dr.C.Babu, Prof. & Head Sugarcane Research Station Cuddalore	<ul style="list-style-type: none"> • Popularize the VCS products • VCS may be continued
170.	V60IL	Production of Seedlings/buddlings in acid lime	Dr.T.Rangaraj, Prof. & Head Citrus Research Station, Sankarankovil	<ul style="list-style-type: none"> • Send a revised sale price by working out the Cost of Production, Marketing Cost, Margin along with comparative price of prevailing competitive market prices to the sale price committee and a copy of the same may be communicated to DABD, TNAU • VCS may be continued
171.	V60CN	TFL Seed Production in Chillies – Variety K1	Dr.S.Manoharan Asst Prof (Agron), ARS, Kovilpatti	<ul style="list-style-type: none"> • Send a proposal for Change of title and include additional components like planting materials, vermicompost, training and analytical services • Explore the possibilities to increase the revenue generation
172.	V60IR	Quality seed production of rice and black gram varieties suitable for southern districts of Tamil Nadu	Dr.S.Arumugachamy, Prof. & Head, RRS, Ambasamudram	<ul style="list-style-type: none"> • VCS may be continued
173.	V60JC	Mass production and distribution of bio control agent	Dr. R.Radhajeyalakshmi Assistant Professor (Plant Pathology), MRS, Vagarai	<ul style="list-style-type: none"> • Biocontrol agent Bacillus subtilis production & distribution can be started in consultation with Director(CPPS), TNAU, Coimbatore for

				<p>strengthening VCS scheme at MRS, Vagarai</p> <ul style="list-style-type: none"> Hydroponics fodder production training may be combined in VCS Trainings on Mass Production of bio control agents may be proposed under VCS Separate proposal may be sent for asking seed money Rs.2,00,000 in addition for hiring skilled worker and Bacillus subtilis production, farm strengthening works Permission may be sent for digging Borewell at MRS, Vagarai under VCS All the income generation schemes may be combined in VCS Efforts may be taken up in selling bio control agents to private firms in nearby areas of MRS, Vagarai
174.	V60JD	Production of the talc based formulation of bio-control agent viz., Trichoderma viride and Plerotus bed spawn	Dr.A.Sangeetha, Asst. Prof. RRS, Vridhachalam	<ul style="list-style-type: none"> Efforts for increasing revenue generation
175.	V60KG	Commercial production of bioinoculants	Dr.E.Jamuna, Asst. Prof. ORS, Tindivanam	<ul style="list-style-type: none"> Popularize the availability of VCS inputs to organic farmers

Annexure II
College/Station-wise split up details of VCS

The list of 175 VCSs operating in different departments of TNAU campus, constituent colleges and various research stations are given below

Sl. No.	Particulars (Name of the Department / Directorate)	No. of VCS	VCS Code Nos.	Activity
I. Coimbatore – Main Campus				
1.	Agricultural Entomology Dr. K.Bhuvanewari, Professor (Ento.)	4	V60EY	Analytical service
	Dr. P.A. Saravanan, Asst.Prof.		V60EJ	Beekeeping and sale of honey
	Dr. S.Jeyarajan Nelson, Prof. (Agrl. Ent.)		V60HM	<i>Trichogramma, Acerophagus and Bracon</i>
	Dr.N.Chitra, Asso.Prof		V60IO	Insect Museum
2.	Agricultural Microbiology Dr. V. Gomathi, Professor and Head	2	V60HI	Analytical service
	Dr.U.Sivakumar, Professor (Ag. Micro)		V60IC	Analytical service
3.	Renewable Energy Engineering Dr. P. Subramanian, Professor and Head	1	V60HK	Consultancy
4.	Controller of Examinations Dr.K.Soorianathasundaram, CoE	1	V60BS	Students service
5.	Crop physiology Dr.M.K.Kalarani, Professor and Head	1	V60AA	Production and sale of TNAU Coconut Tonic and crop boosters
6.	Dean (Agri) – Dept. of Physical Education Dr.Raghavan, <i>Physical Education, Director</i>	2	V60EH & V60ET	Students service
7.	Environment Sciences Dr.P.Kalaiselvi, Asst. Professor (ENS)	2	V60HG	Production and sale of TNAU Bio-mineralizer
	Dr. M. Maheswari, Professor & Head		V60AS	Analytical service

8.	Farm Management Dr.S.Radhamani, Assoc. Prof. (Agron.)	2	V60DV	Production and sale of black gram and green manure
	Dr.S.K.Natarajan, Asst. Prof. (Agron.)		V60EG	Production and sale of vermi compost
9.	Forage Crops Dr. S.D.Sivakumar, Assoc. Prof. (Agron.)	1	V60AE	Production and sale of fodder crops
10.	Floriculture and Landscaping Dr. M.Velmurugan, Asst.Prof.(Hort.)	1	V60CJ	Students and public for entertainment
11.	Millets Dr.R.Ravikesavan, Professor and Head	1	V60AY	Production and sale of millet seeds
12.	Nano Science and Technology Dr. A.Lakshmanan, Professor and Head	1	V60HB	Analysis of samples
13.	Nematology Dr.G.Jothi, Asst. Prof. (Nem.)	1	V60HT	Production and sale of talc based formulation of nematode antagonistic fungi
14.	Oil Seeds Dr. R. Sasikala Asst. Prof. (PB&G)	1	V60FT	Production and sale of groundnut seeds
15.	Plant Genetic Resources Dr.V.Thiruvengadam, Asst. Prof. (PBG)	1	V60GH	Germplasm conservation
16.	Plant Pathology Dr.A.Sudha, Asst. Prof.	3	V60BH	Production and sale of <i>T. viride</i> talc formulation
	Dr.P.Latha, Asst. Prof. (Pl. Path.)		V60BF	Production and sale of bed and mother Spawn
	Dr. V. Sendhilvel, Asst. Prof. (Pl. Path.)		V60AB	Production and sale of pseudomonas (Pf1)talc
17.	Post Harvest Technology Dr.G.Gurumeenakshi, Asso.Prof.(FSN	2	V60CP	Production and sale Value added fruits and vegetable products
	Dr.Z.John Kennady, Professor and Head		V60EX	Food Quality Analysis
18.	Pulses Dr.A.Muthuswamy, Asst. Prof.	1	V60FU	Production and sale of pulse seed production
19.	Remote Sensing & GIS Dr.K.P.Ragunath, Asst. Prof.,	1	V60CQ	Digital Soil Map Training and consultancy
20.	Seed Science Technology Dr.P.R.Renganayaki, Professor and Head	1	V60FM	Analysis of seed samples

21.	Soil Science and Agricultural Chemistry Dr. R.Santhi, Director (NRM)	5	V60AZ	Analysis of soil, water and plant samples
	Dr. D.Jegadeeswari, Assoc. Professor		V60HE	Production and sale of crop wise Micronutrient Mixture
	Dr.G.Sridevi, Asst. Professor		V60HO	Production and sale of Nutri seed and Pellet Packs
	Dr.R.K.Kaleeswari, Professor (SS&AC)		V60IT	TNAU-WSF
	Dr. S. Meena, Prof. (SS&AC)		V60HX	Analytical services
22.	Spices and Plantation crops Dr.B.Senthamizh selvi, Asst.Prof.	1	V60BE	Production and sale of Tall Variety (WCT) Dwarf Variety
23.	Sustainable Organic Agriculture Dr.R.Sunitha, Assistant Professor (ENS)	2	V60HY V60IX	Production and sale of Panchagavya and Vermicompost
24.	Training Division (DoEE) Dr.M.Senthilkumar, Asst. Prof.(Agrl. Extn.)	1	V60CC	Production and sale of Technology CDS and video coverage
25.	Veterinary and Animal Sciences Dr.M.Thirunavukkarasu, Asst. Professor	1	V60HR	Production and sale of animal products
26.	Directorate of Agribusiness Development Dr.S.D.Sivakumar, Director (ABD)	1	V60IQ	VCS database maintenance
27.	Central Farm Unit Dr. N. Sakthivel Asso. Prof. (Agronomy)	1	V60JI	Custom hiring of Back hoe loader (JCB) and
28.	Central for Plant Molecular Biology and Biotechnology Dr. K. K. Kumar Asso. Prof. (Biotech.)	1	V60KE	Hands on experimental training in Plant Biotechnology, Bioinformatics and Biochemistry
Total Coimbatore Main Campus (I)		43		

II. Constituent Colleges				
A. AC&RI, Madurai				
1.	Agricultural Microbiology Dr.K.Kumutha, Professor and Head	1	V60EN	Production and sale of liquid biofertilizers
2.	Farm Management Dr.R.Duraisingh, Professor & Head	2	V60FW	Seed production
	Dr.S.Saravanan		V60GP	Production and sale of animal products
3.	Horticulture Dr.C.Rajamanickam, Asst. Prof.	1	V60AW	Production and sale of horticultural planting materials
4.	Plant Pathology Dr.M.Theradimani, Prof. & Head	1	V60BL	Production and sale of biocontrol agents and mushroom spawn
5.	Seed Science and Technology Dr.T.Sivakumar, Asso. Prof.	1	V60EZ	Production and sale of TNAU Coconut Tonic
6.	Soil and Environment Sciences Dr.P.Kannan, Asst. Prof.	3	V60EO	Analytical services Soil and water samples
	Dr.R.Jayashree, Asst.Prof.		V60CF	Production and sale of vermicompost
	Dr.K.Senthil, Asst.Prof.		V60JN	Manufacturing and Distribution of Emulsified quality Neem Oil
7.	Agricultural Entomology Dr.Zadda Kavitha, Asst. Prof.	2	V60IK	Analytical services Plant Metabolite and Volatile analysis
	Dr.J.Jayaraj, Prof.		V60JY	Production and supply of biocontrol agents and bee keeping
8.	Biotechnology Dr. S. Vellaikumar Assistant Professor	1	V60JB	Analytical services Secondary metabolite and Micro nutrient content analysis
Total for AC&RI, Madurai		12		
B. AC&RI, Killikulam				
1.	Agronomy Asish K Binodh Asst. Prof. (PBG)	3	V60DD	TNAU Coconut tonic
	Dr. G. Kumar Asst. Prof. (VAS)		V60JA	IFS model for Dryland Eco system
	Dr.D.Rajakumar, Asst.Prof. (Agro.)		V60JX	Institutional Custom Hiring Centre (IHC)

2.	Farm management Dr.D.Rajakumar, Asst.Prof (Agron.)	1	V60CX	Production and sale of FS & BS of Rice
3.	Horticulture Dr.C.Ravindran, AP(Hort.)	1	V60FA	Production and sale of Snake gourd, ribbed gourd and bitter gourd seeds
4.	Plant Pathology Dr.N.Rajinimala, Asst.Prof.	1	V60FR	Training Spawn and Mushroom training
5.	Soil Science Agricultural Chemistry Dr.B.Jeberlin Prabina, Assoc. Prof (Agrl. Micro.)	2	V60CY	Production and sale of of vermicompost and biofertilizers
	Dr.B.Bhakiyathu Saliha, Asso.Prof.(SS&AC)		V60IY	Analytical Advisory Centre Soil, Water and Crop
6.	Breeding Dr.S.Saravanan, Asst Prof. (PBG)	1	V60HW	Production and sale of redgram, black gram and greengram seeds
7.	Agricultural Entomology Dr. G. Preetha Asst Professor (Ento.)	1	V60IZ	Production and sale of honey bee colonies, silkworm cocoons and bio control agents
Total for AC&RI, Killikulam		10		
C. ADAC&RI, Trichy				
1.	Agronomy Dr.S.Rathika, Assistant Professor (Agro.)	1	V60EP	Production and sale of of vermicompost
2.	Soil Science and Agricultural Chemistry Dr.M.Sundar, Professor (Agrl. Micro.)	2	V60EV	Production and sale of of biofertilizers
	Dr.D.Janaki Asst. Prof.,		V60IJ	Analytical service Soil and plant
3.	Plant Protection Dr.P.T.Sharavanan, Asst. Prof. (Pl. Path.)	1	V60GO	Production and sale of <i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>
4.	Agricultural Entomology Dr.S.Sheeba Joyce Roseleen, AP (Ag. Ent.)	1	V60HS	Production and sale of honey and bee colonies
5.	Plant Pathology Dr.V.K.Satya, Asst.Prof.	1	V60I I	Mushroom Training
6.	Fruit Science Dr. P. Yasodha, Asst. Prof. (Ento.)	1	V60IV	Production and sale of agri, horti produces and bio control agents
Total for ADAC&RI, Trichy		7		

D. AEC&RI, Kumulur				
1.	Applied Sciences and Engineering Dr.M.Dhandapani, Asst. Prof.	1	V60EE	Production and sale of forestry Seedlings
2.	Farm Machinery & Power Engineering Dr.P.K.Padmanathan, Asst. Prof. (FMP)	1	V60FD	Production and sale of agricultural machineries
	Dr.S.S.Sivakumar, Prof. & Head	1	V60JK	Custom hiring of Agricultural Machinery
3.	Processing and Food Engineering Dr.S.Parveen, Asst.Prof.(F&APE)	1	V60JH	Production and sale of bakery products
4.	Soil and Water Conservation Engineering Dr.A.Bharani, Asso.Prof.	1	V60JJ	Production and sale of micronutrient fertilizer mixtures, vermicompost and <i>panchagavya</i>
Total for AEC&RI, Kumulur		5		
E. FC&RI, Mettupalayam				
1.	Agro forestry Dr.P.Rajendran, Assoc. Prof.,(Forestry)	1	V60BJ	Production and sale of casuarina, malai vembu, eucalyptus, sandal, red sandal, teak, silk cotton simarouba & other tree seedlings
2.	Forest Products and Utilization Dr.M.Tilak	2	V60ES	Production and sale of bioinoculants
	Dr.R.Ravi, Asst.Prof.,(Forestry)		V60GW	Production and sale of tree Seedlings
3.	Tree Breeding Dr.P.S.Devanand, Asst.Prof.(PB&G)	1	V60HF	Production and sale of <i>Melia dubia</i> and Neem
4.	Silviculture Dr.M.Sivaprakash, Asst.Prof.,(Forestry)	1	V60IA	Production and sale of tree Seedling
5.	Farm Dr.S.Umesh Kanna, Asso.Prof.	1	V60JM	Slatted Goat Farming
6.	Forest Biology and Tree Improvement Dr.S.Umesh Kanna, Asso.Prof.	1	V60JZ	Production, Extraction, Quality Assay and Capacity Building on Natural Dyes

7.	Sericulture, Dr.R.Shanmugam, Asst.Prof.	2	V60KC	Production of Mulberry Saplings
	Dr.P.Priyadharshini Asst.Prof.		V60KD	Cocoon and craft production
Total for FC&RI, Mettupalayam		9		
F. CSC&RI, Madurai				
1.	Food Science and Nutrition Dr.V.Meenakshi, Asst.Prof.(FSN)	1	V60HJ	Production and training
2.	Home Science Extension Dr.K.P.Sivakumar, Asst Prof.,	1	V60GI	Training
3.	Human Development Dr.K.Jothilakshmi, Asst.Prof.	1	V60IB	Value addition of fruits and vegetable training
Total for HSC&RI, Madurai		3		
G. HC&RI, Periyakulam				
1.	Floriculture and Medicinal Crops Dr.P.Arul Arasu, Asst. Professor (Horti.)	1	V60GF	Production and sale of ornamental & medicinal plants
2.	Fruit Science Dr.S.Muthuramalingam, Asst. Prof.	3	V60AJ	Production and sale of fruit seedling
	Dr.V.Vani, Asst. Prof. (Home Sci.)		V60GC	Training in food processing
	Dr.S.Muthuramalingam, Asst. Prof.		V60JG	Sheep and goat farming – Model unit
3.	Spices and Plantation Crops Dr.R.Chitra, Asst. Prof. (Hort.)	3	V60GL	Production and sale of curry leaf seedlings and coriander seed
	Dr.P.Malathi, Asst. Prof.		V60FB	Sale of Coconut tonic
	Dr.R.Vimala, Prof.		V60DN	Production and sale of <i>Pseudomonas</i> , <i>Trichoderma</i> , <i>Azospirillum</i> and VAM
4.	Soil Science and Agricultural Chemistry Dr.K.M.Sellamuthu, Associate Professor (Soil Science)	1	V60JE	Advisory Service Soil and Water Testing

5.	Natural Resource Management Dr.R.Poorniammal, AP	1	V60JO	Production of Biofertilizers and vermicompost
Total for HC&RI, Periyakulam		9		
H. HC&RI Women, Trichy				
1.	Dr. K. Kumanan Asst Prof (Horti)	1	V60IP	Production and sale of horticulture planting materials
Total for HC&RI Women, Trichy		1		
I. AC&RI, Vazhavachanur				
1.	Crop Management: Dr.V.Arunkumar, Asst. Prof. (SS&AC)	5	V60IN	Sale of Milk
2.	Crop Management: Dr.A.Krishnaveni, Asst.Prof.(ENS)		V60IW	Production and sale of vermicompost, earth worms, vermi wash and panchakavya
3.	Horticulture & Allied Sciences: Dr. A. Baskaran Associate Professor (Hort.)		V60KF	Production of planting materials
4.	Crop Management: Dr. R. Brindavathy Associate Professor (Ag. Micro.)		V60KH	Production of Biofertilizers
5.	Crop Protection: Dr. M. Deivamani, Assistant Professor		V60KI	Production of microbial antagonists
Total for AC&RI, Vazhavachanur		5		
J. AC&RI, Eachangkottai				
1.	Crop Protection: Dr.S.Mathiyazhagan , Asst. Prof. (Pl. Path.)	3	V60IS	Production and sale of biofertilizer and biocontrol agents
2.	Crop Improvement: Dr.A.Bharathi, Asst.Prof.		V60JL	Seed Production of Rice, Pulses, millets and Tree / Plant Saplings
3.	Social Science & Allied Sciences, Dr.K.S.Vijai Selvaraj, Asst.Prof.(Hort.)		V60KA	Production and distribution of quality coconut seedlings
Total for AC&RI, Eachangkottai		3		
K. Institute of Agriculture , Kumulur				
1.	Institute of Agriculture	3	V60IU	Production and Training Vermicompost

	Dr.M.Chandrakumar, Asst.Prof.(ARM)			
2.	Dr.K.Annadurai, Principal		V60JP	TFL Seed Production
3.	Dr.W.Baby rani, Prof.		V60JQ	Production of Bio inoculants
Total for IOA, Kumulur		3		
L. Institute of Agriculture, NPRC, Vamban				
1.	Institute of Agriculture, Vamban Dr.K.Bharathi Kumar Assistant Professor (PBG)	1	V60JF	Production and sale of agricultural Crops
Total for Constituent Colleges (II)		68		
III Research Stations/Institute/Centre				
1.	ARS, Bhavanisagar Dr. Vakeswaran, Asst. Prof.	5	V60BI	Production and sale of paddy foundation seed
	Dr. Sangeetha Panicker, Prof. (Pl. Path.)		V60DM	Production and sale of <i>Trichoderma viride</i> , <i>Pseudomonas fluorescens</i> and <i>Pleurotus spp</i>
	Dr. D. Muthumanickam Prof. (SS&AC), ARS, Bhavanisagar		V60ED	Production and sale of Vermicompost
	Dr.K.Ganesan, Asst. Prof.		V60EM	Production and sale of Coconut seedlings
			V60IG	Production and sale of <i>Beauveria</i> and <i>Metarhizium</i>
2.	ARS, Pattukottai Dr.M.Tamil Selvan, Asst. Prof. (Hort.)	1	V60BO	Production and sale of coconut seedlings
3.	ARS, Thirupathisaram Dr.R.Latha, Asst. Prof.	1	V60FN	Production and sale of paddy and vermicompost
4.	ARS, Virinjipuram Dr.S.Nanthakumar, Prof. & Head	2	V60BQ	Production and sale of horticultural seedlings
	Dr.P.Thilagam, Asst. Prof. (Agrl. Ento.)		V60IM	Wildboar repellent
5	Coconut Research Station(CRS), Aliyarnagar Dr.C.Sudhalakshmi, Asst. Prof. (SS&AC)	5	V60DZ	Production and sale of vermicompost
	Dr. E. Rajeshwari, Assoc. Prof. (Pl. Path.)		V60EA	Production and sale of <i>Peudomonas, fluorescenc</i> and <i>Trichoderma viride</i>

	Dr.C.Sudhalakshmi Assistant Professor		V60CR	Production and sale of coconut seedlings
	Dr. M.Alagar, Asst. Prof. (Agrl. Ento.)		V60GQ	Production and sale of <i>B. brevicornis</i>
	Dr.C.Sudhalakshmi, Asst. Prof. (SS&AC)		V60HZ	Analytical services Soil and water samples
5.	Coconut Research Station, Veppankulam Dr. M.Surulirajan Asst Prof (Path),	2	V60FF	Production and sale of <i>Trichoderma viride</i> and <i>pseudomonas fleuroscens</i>
	Dr.R.Arun Kumar, Asst. Prof.		V60CK	Sale of TNAU Coconut Tonic
6.	Cotton Research Station (CRS), Veppanthatti Dr. K.Sakthivel, Asst Prof (PBG)	1	V60GJ	Production and sale of <i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>
7.	Dryland Agricultural Research Station, Chettinad, Dr.Sheeba, Asso.Prof.(SS&AC)	1	V60HU	Training
8.	Floriculture Research Station, Thovalai Dr.G.Ashokkumar, Asst. Prof.(Hort.)	1	V60GT	Production and sale of Jasmine R cutting Neerium R cutting Polybag plants and vermicompost
9.	GRS, Theni Dr. A. Subbiah, Asst. Prof. (Hort.)	2	V60HQ	Production and sale of grapes planting materials
	Dr.S.Saraswathy, Prof.& Head		V60JR	Biocontrol agents and Bio fertilizers
10.	HRS, Kodaikanal Dr.I.Muthuvel, Assoc. Prof. and Head	1	V60BU	Production and sale of eucalyptus oil and horticulture planting materials
11.	HRS, Ooty Dr. Keisar Lourdusamy, Asso. Prof. & Head	1	V60CW	Production and sale of biocontrol agents
12.	HRS, Pechiparai Dr. S.T.Bini Sundar, Asst. Prof (Horti.)	2	V60CH	Production and sale of horticulture planting materials
	Dr. T.Senthilkumar, Asst. Prof.		V60DS	Production and sale of vermicompost and Honey
13.	HRS, Thadiyankudisai Dr.T.Thangaselvabai, Prof. and Head	2	V60BG	Production and sale of horticulture planting materials
	Dr.S.Easwaran, Asso. Prof.		V60BA	Production and sale of <i>Pseudomonas fluorescens</i> and Vermicompost

14.	HRS, Yercaud Dr.M.Anand	3	V60AG	Production and sale of <i>Azospirillum, Phosphobacteria, Trichoderma & pseudomonas</i>
	Dr.M.Anand		V60AH	Production and sale of horticultural crop planting materials
	Dr.P.R.Kamal Kumaran		V60AL	Production and sale of Vermicompost and VAM
15.	National Pulses Research Center, Vamban Dr.P.Ahila Devi, Asst. Prof. (Pl. Path.)	1	V60HC	Production and sale of biocontrol agents and biofertilizers
16.	RRS, Arupukottai Dr.P.Mareeswari, Asst.Prof.(Pl. Patho.)	4	V60DK	Production and sale of vermicompost
	Dr.K.R.Rajadurai, Asst. Prof. (Horti)		V60DL	Production and sale of seedlings / budded plants / grafts
	Dr.P.Mareeswari, Asst. Prof. (Pl. Path.)		V60DB	Production and sale of spawn and mushroom
	Dr.S.Srinivasan, Asst. Prof.		V60DC	Production and sale of animals
17.	RRS, Paiyur Dr.P.C.Prabu	2	V60AM	Production and sale of <i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>
	Dr.P.Parasuraman, Prof. & Head		V60BY	Production and sale of vermicompost and earthworms
18.	RRS, Tirur Dr.M.Bhaskaran, Prof. & Head	2	V60BD	Production and sale of breeder and TFL seed
	Dr.M.Bhaskaran, Prof. & Head		V60JS	Production of talc based bio-formulation
19.	Sugarcane Research Station, Sirugamani Dr.M.Sakilla, Asst.Prof.(PBG)	1	V60DG	Production and sale of seed buds and seedlings
20.	TCRS, Yethapur Dr.P.Arutchethil, Assoc. Prof. (PBG)	3	V60DX	Production and sale of castor hybrid
	Dr.P.S.Kavitha, Asst. Prof. (Hort.)		V60CE	Production and sale of cassava stem
	Dr.P.S.Kavitha, Asst.Prof.(Hort.)		V60BC	Production and sale of TNAU Coconut tonic and Castor gold

21.	TRRI, Aduthurai Dr.T.Sivasankarai Devi, Asst.Prof.	8	V60CU	Production and sale of <i>Azospirillum</i> and <i>Phosphobacteria</i>
	Dr. K.Chitra, Asst.Prof		V60HN	Production and sale of seeds
	Dr.K.Chitra, Asst.Prof.		V60ID	<i>Pseudomonas</i> and <i>Trichoderma</i> talc
	Dr.D.Sasikumar, Asso.Prof.		V60JT	Production and supply of Breeder Seed
	Dr.P.Anandhi, Asst.Prof.		V60JU	Production of myco-insecticides and egg parasitoids
	Dr.R.Pushpa, Asst. Prof.		V60JV	Commercial exploitation of the grain Quality Lab
	Dr.S.Elamathi, Asst. Prof		V60JW	Production and supply of quality coconut planting materials
	Dr.V.Ambethgar, Director		V60KB	Rice based Integrated Farming System
22.	TNAU Info.and Training Center, Chennai Dr.K.R.Vijayalatha, Asst. Prof. (Horti.)	1	V60AI	Training on Agriculture, Horticulture and its allied technologies including value addition
23.	VRS, Palur Dr.V.Vijayageetha, Asst.Prof.	3	V60AO	Production and sale of vegetable seeds
	Dr.S.Ganapthy, Asst.Prof.(PBG)		V60AP	Production and sale of paddy and black gram seed
	Dr.K.Senthamizh, Asst. Prof. (Nema.)		V60ER	Production and sale of jack grafts
24.	Sugarcane Research Station, Melalathur Dr. R.Sudhagar, Assoc. Professor (PB&G)	1	V60IE	Production and sale of pulses and sugarcane setts
25.	Centre of Excellence in Millets, Athiyandal Dr. M. Rajesh, Asst. Prof. (Pl. Path.)	1	V60IF	Production and sale of <i>Trichoderma viride</i>
26.	Sugarcane Research Station, Cuddalore Dr.C.Babu, Prof. & Head	1	V60IH	Production and sale of tissue culture seedlings
27.	Citrus Research Station, Sankarankovil Dr.T.Rangaraj, Prof. & Head	1	V60IL	Production and sale of citrus seedlings
28.	ARS, Kovilpatty Dr.S.Manoharan, Asst. Prof. (Agro.)	1	V60CN	Production and sale of K1 Chillies Seedlings

29.	Rice Research Station, Ambasamudram Dr.S.Arumugachamy, Prof. and Head	1	V60IR	Production and sale of paddy seed
30.	Maize Research Station, Vagarai Dr. R.Radhajeyalakshmi Asst.Prof. (Plant Patho.)	1	V60JC	Production and sale of bio control agents
31.	Regional Research Station, Vridhachalam Dr.A.Sangeetha, Asst. Prof.	1	V60JD	Production and sale of bio control agents
32.	Oilseeds Research Station, Tindivanam Dr.E.Jamuna, Asst. Prof.	1	V60KG	Production of Bio inoculants
Total for Research Stations (III)		64		
(Grand Total I+II+III)		175		

Annexure – III		
List of VCS inputs and available Stations / Departments		
S. No	Seeds, Seedlings and other inputs & analysis	Department / Station
1	Paddy	Agricultural College & Research Institute, Killikulam Agricultural College & Research Institute, Madurai Agricultural Engineering College & Research Institute, Kumulur Agricultural Research Station, Thirupathisaram Agricultural Research Station, Bhavanisagar Regional Research Station, Pattukottai Regional Research Station, Tirur Regional Research Station, Ambasamudram Vegetable Research Station, Palur Sugarcane Research Station, Melalathur Tamil Nadu Rice Research Institute, Aduthurai Soil and Water Management Research Institute, Kattuthottam
2	Pulses	Department of Pulses, TNAU, Coimbatore Agricultural Research Station, Bhavanisagar Regional Research Station, Tirur Vegetable Research Station, Palur National Pulses Research Centre, Vamban Tamil Nadu Rice Research Institute, Aduthurai
3	Small Millets	Departments of Millets, TNAU, Coimbatore Centre of Excellence in Millets, Athiyandal
4	Vegetable Seeds	Horticulture College & Research Institute, Coimbatore Horticulture College & Research Institute, Periyakulam Agricultural College & Research Institute, Killikulam Horticulture College & Research Institute for Women, Trichy

		Horticultural Research Station, Ooty Horticultural Research Station, Yercaud Vegetable Research Station, Palur Agricultural Research Station, Virinjipuram
5	Horticultural Planting Materials	Agricultural College & Research Institute, Madurai Horticulture College & Research Institute, Coimbatore Horticulture College & Research Institute, Periyakulam Horticulture College & Research Institute for Women, Trichy Horticultural Research Station, Yercaud Horticultural Research Station, Pechiparai Horticultural Research Station, Kodaikanal Horticultural Research Station, Ooty Horticultural Research Station, Thadiyankudisai Floricultural Research Station, Thovalai Vegetable Research Station, Palur Grapes Research Station, Theni Citrus Research Station, Sankarankoil Agricultural Research Station, Bhavanisagar Regional Research Station, Tirur Regional Research Station, Aruppukkottai
6	Coconut Seedlings	Coconut Nursery, TNAU, Coimbatore Agricultural Research Station, Bhavanisagar Coconut Research Station, Aliyar Nagar Coconut Research Station, Veppankulam
7	Sugarcane Sets	Sugarcane Research Station, Sirugamani Sugarcane Research Station, Cuddalore Sugarcane Research Station, Melalathur
8	Forage crops	Department of Forage Crops, TNAU, Coimbatore Agricultural College & Research Institute, Vazhavachanur
9	Forest Seedlings	Forest College & Research Institute, Mettupalayam Agricultural College & Research Institute, Madurai Agricultural Engineering College & Research Institute, Kumulur
10	Biofertilizers	Department of Agricultural Microbiology, TNAU, Coimbatore Anbil Dharmalingam Agricultural College & Research Institute, Trichy Agricultural College & Research Institute, Killikulam Agricultural College & Research Institute, Madurai Agricultural College & Research Institute, Eachangkottai Horticulture College & Research Institute, Periyakulam Tamil Nadu Rice Research Institute, Aduthurai Horticultural Research Station, Yercaud Horticultural Research Station, Ooty Regional Research Station, Paiyur Agricultural Research Station, Virinjipuram
11	Vermicompost	Central Farm Unit, Department of Agronomy, TNAU, Coimbatore Agricultural College & Research Institute, Killikulam Agricultural College & Research Institute, Madurai Agricultural College & Research Institute, Vazhavachanur Anbil Dharmalingam Agricultural College & Research Institute, Trichy

		<p>Forest College & Research Institute, Mettupalayam Horticulture College & Research Institute, Periyakulam Institute of Agriculture, Kumulur Horticultural Research Station, Yercaud Horticultural Research Station, Ooty Horticultural Research Station, Pechiparai Floricultural Research Station, Thoivalai Regional Research Station, Paiyur Agricultural Research Station, Bhavanisagar Agricultural Research Station, Thirupathisaram Coconut Research Station, Aliyar Nagar Regional Research Station, Aruppukottai</p>
12	Biocontrol agents (Tricoderma, Pseudomonas, Brevicornis etc)	<p>Department of Plant Pathology, TNAU, Coimbatore Department of Agricultural Entomology, TNAU, Coimbatore Department of Nematology, TNAU, Coimbatore Agricultural College & Research Institute, Killikulam Agricultural College & Research Institute, Madurai Anbil Dharmalingam Agricultural College & Research Institute, Trichy Horticulture College & Research Institute, Periyakulam Horticultural Research Station, Yercaud Horticultural Research Station, Ooty Horticultural Research Station, Thadiyankudisai Regional Research Station, Paiyur Regional Research Station, Aruppukottai Regional Research Station, Vridhachalam Agricultural Research Station, Bhavanisagar Agricultural Research Station, Virunjipuram Coconut Research Station, Aliyar Nagar Coconut Research Station, Veppankulam Maize Research Station, Vagarai Tamil Nadu Rice Research Institute, Aduthurai Centre of Excellence in Millets, Athiyendal</p>
13	Coconut Tonic and Crop Boosters	<p>Department of Crop Physiology, TNAU, Coimbatore Agricultural College & Research Institute, Madurai Horticulture College & Research Institute, Periyakulam Tapioca and Castor Research Station, Yethapur Coconut Research Station, Veppankulam</p>
14	Panchakavya & Dasakavya	<p>Department of Sustainable Organic Agriculture, TNAU, Coimbatore Department of Environmental Science, TNAU, Coimbatore Horticultural Research Station, Ooty</p>
15	Soil and Water Analysis	<p>Department of Soil Science & Agricultural Chemistry, TNAU, CBE Department of Environmental Science, TNAU, Coimbatore Anbil Dharmalingam Agrl. College & Research Institute, Trichy Agricultural College & Research Institute, Killikulam Agricultural College & Research Institute, Madurai Horticulture College & Research Institute, Periyakulam Agricultural Research Station, Bhavanisagar Horticultural Research Station, Ooty</p>

16	Analytical Services	Toxicology Lab, Department of Agricultural Entomology, TNAU, Coimbatore Department of Nano Science and Technology, TNAU, Coimbatore Department of Soil Science & Agricultural Chemistry, TNAU, Coimbatore Department of Agricultural Microbiology, TNAU, Coimbatore Department of Environmental Science, TNAU, Coimbatore Department of Post Harvest Technology, TNAU, Coimbatore Department of Remote Sensing & GIS, TNAU, Coimbatore Department of Seed Science and Technology, TNAU, Coimbatore
17	Mushroom Training	Department of Plant Pathology, TNAU, Coimbatore Horticultural Research Station, Ooty Agricultural Research Station, Bhavanisagar Regional Research Station, Aruppukottai Tamil Nadu Rice Research Institute, Aduthurai Sugarcane Research Station, Sirugamani Agricultural College & Research Institute, Madurai Anbil Dharmalingam Agrl College & Research Institute, Trichy Agricultural College & Research Institute, Killikulam
18	Bee Keeping training	Department of Agricultural Entomology, TNAU, Coimbatore Anbil Dharmalingam Agrl College & Research Institute, Trichy Agricultural College & Research Institute, Killikulam Horticultural Research Station, Pechiparai
19	Value addition and Bakery Products training	Department of Post Harvest Technology, TNAU, Coimbatore Information and Training Centre, Chennai Community Science College & Research Institute, Madurai
20	Small Agricultural Machineries	Agricultural Engineering College & Research Institute, Kumulur

Annexure – IV - A**Product wise analysis of VCS**

1. TFL Seed - TKM 13 (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	7.03	36	-28.97
2016-17	8377.3	7754	623.3
2017-18	5434	4118	1316
2018-19	2030	45.25	1984.75
2019-20	6851	5885	966
2020-21	16786.15	6692.15	10094
2. TFL Seed - TKM 9 (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	550	550	0
3. Rice (ADT 39 FS-1, ASD 16 CS, ADT 39 CS, TKM 13 FS-1, TPs 5 FS 1, ASD 16 FS - II) (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	22950	22950	0
2016-17	540	540	0
2017-18	64940	64940	0
2018-19	39965	39965	0
2019-20	38720	38720	0
2020-21	41810	14690	27120
4. Wheat (HW 1098)TFL (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	1087	1087	0
5. Millet Seeds (Kg)			
2015-16	2400	2331	69
2016-17	1065	810	255
2017-18	1528	1283	245
2018-19	1798	856	942
2019-20	1304	1772	-468
2020-21	3046	2169.5	876.5

6. Blackgram (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1188	1188	0
2016-17	2699	2531	168
2017-18	4869	4758	111
2018-19	2371	2558	-187
2019-20	2748	2748	0
2020-21	753	753	0
7. Redgram (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	1285.5	1285.5	0
2018-19	1085	1085	0
2019-20	814	814	0
2020-21	93	60	33
8. Greengram (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	1750	1217	533
2018-19	401	934	-533
2019-20	375	375	0
2020-21	407	271	136
9. Cowpea (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	152.5	152.5	0
2020-21	300	300	0
10. Horsegram seeds / haulms (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	528	528	0
2018-19	4	4	0
2019-20	200	200	0
11. Bengalgram (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	500	500	0
2019-20	500	500	0
2020-21	700	700	0

12. Castor (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	30	0	30
13. Groundnut (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	166	0	166
14. Sunflower (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1173	1173	0
2016-17	1254	1254	0
2017-18	925	925	0
2018-19	1026	1026	0
2019-20	479	479	0
2020-21	910	4110	-3200
15. Sesame (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	29	35	-6
2016-17	4	29	-25
2017-18	0	4	-4
2018-19	53.25	0	53.25
2019-20	53	53.25	-0.25
2020-21	53	195	-142
16. SSI seed Materials (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	14100	14100	0
2019-20	134241	134241	0
2020-21	38834	38834	0
17. Banana Suckers (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	34	34	0
18. Acid lime (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5209	4159	1050
2016-17	10356	10232	124
2017-18	15089	5089	10000

2018-19	16499	8819	7680
2019-20	28530	25907	2623
2020-21	18647	15429	3218
19. Rose cuttings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	128	128	0
2016-17	34	34	0
2017-18	92	92	0
2018-19	5	5	0
2019-20	504	96	408
20. Pepper Plants (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	11	11	0
21. Avacado seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	4260	4260	0
2016-17	10594	10594	0
2017-18	1522	1522	0
2018-19	1787	1787	0
2019-20	2401	2401	0
2020-21	9030	9030	0
22. Turmeric seed rhizome (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1825	1825	0
23. Tamarind grafts (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5500	5500	0
2016-17	11000	11000	0
2017-18	8500	8500	0
2018-19	7500	7500	0
2019-20	6500	6300	200
2020-21	7000	5601	1399
24. Curry leaf seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	1500	1500	0

2018-19	1750	1750	0
2019-20	2000	500	1500
2020-21	5000	2330	2670
25. Coriander seed (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	0	30	-30
26. Coffee Seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	34468	34468	0
2016-17	18935	18935	0
2017-18	14525	14525	0
2018-19	20100	20100	0
2019-20	19795	19795	0
2020-21	20607	20607	0
27. Dogridge wild grape rootstocks & grape varieties (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5100	4750	350
2016-17	148000	146307	1693
2017-18	80000	74045	5955
2018-19	105000	93198	11802
2019-20	95900	94098	1802
2020-21	90500	81064	9436
28. ECT seed nuts / Coconut seed nuts (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	1000	1000	0
2020-21	1500	1500	0
29. Coconut Seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	9592	3560	6032
2016-17	3750	7189	-3439
2017-18	3950	5335	-1385
2018-19	4853	4529	324
2019-20	6250	7724	-1474
2020-21	5349	5349	0
30. Tall Variety(WCT) (Nos)			

Period	Quantity Produced	Quantity Sold	Balance
2015-16	20620	20620	0
2016-17	10215	10215	0
2017-18	13207	13207	0
2018-19	9985	9985	0
2019-20	13822	13822	0
2020-21	7500	4956	2544
31. Dwarf Variety (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2642	2642	0
2016-17	1483	1483	0
2017-18	1320	1320	0
2018-19	757	757	0
2019-20	732	732	0
2020-21	300	236	64
32. Coconut (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	3821	262	3559
2016-17	5572	1822	3750
2017-18	5728	1778	3950
2018-19	3353	0	3353
2019-20	0	0	0
2020-21	0	7876	-7876
33. Jack grafts (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	8572	8423	149
2016-17	14661	8018	6643
2017-18	10275	10223	52
2018-19	12729	12161	568
2019-20	7718	7462	256
2020-21	11556	10928	628
34. Cassava stem cuttings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	41842	41842	0
2016-17	20000	18831	1169

2017-18	28000	26604	1396
2018-19	27000	25191	1809
2019-20	60000	57459	2541
2020-21	202300	201449	851
35. Jasmine R Cutting (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	250	250	0
2016-17	358	358	0
2017-18	578	578	0
2018-19	1585	1585	0
36. Neerium R Cutting (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	325	325	0
2016-17	653	653	0
2017-18	1257	1257	0
2018-19	2356	2356	0
37. Black pepper rooted cuttings / Brush pepper rooted cuttings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	35955	34973	982
2016-17	62898	57071	5827
2017-18	47013	56752	-9739
2018-19	33494	31597	1897
2019-20	44813	44813	0
2020-21	38051	37703	348
38. Nutmeg / Garcinia Grafts / SEEDLINGS (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	3	3	0
2016-17	300	264	36
2017-18	525	498	27
2018-19	250	195	55
2019-20	262	262	0
2020-21	0	0	0

39. Melia dubia (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	44500	44373	127
2016-17	36200	36151	49
40. Tamarind root stocks (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	1237	1214	23
41. Mango variety (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	12	12	0
42. Pomegranate seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	145	37	108
2020-21	367	367	0
43. Lime seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	1285	1285	0
2018-19	753	753	0
2019-20	320	320	0
2020-21	357	357	0
44. Karnoda seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	50	50	0
45. CN Grass (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	76.85	76.85	0
2016-17	92.9	92.9	0
2017-18	191.55	191.55	0
2018-19	172.87	172.87	0
2019-20	158.45	158.45	0
2020-21	3398.5	3398.5	0
46. Fodder maize (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	32	32	0

2016-17	47.7	47.7	0
2017-18	41.5	41.5	0
2018-19	12.85	12.85	0
2020-21	92.6	92.6	0
47. Fodder sorghum (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	10.5	10.5	0
2020-21	9.4	9.4	0
48. CN grass sets (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	305430	305430	0
2018-19	72800	72800	0
49. CO (FS) 29 seeds (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	13	13	0
50. Crop wise Micro Nutrient Mixture (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	13502	13502	0
2016-17	12541	12541	0
2017-18	6766	6766	0
2018-19	8868	8868	0
2019-20	6743	6393	350
2020-21	12991	12846	145
51. Pulse Wonder (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	31092	31092	0
2016-17	30254	30254	0
2017-18	4887	4887	0
2018-19	3392	3392	0
2019-20	4116	4116	0
2020-21	13039	13039	0
52. Groundnut Rich (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	8965	8965	0
2016-17	6096	6096	0

2017-18	5331	5331	0
2018-19	4463	4307	156
2019-20	2543	3233	-690
2020-21	7446	7446	0
53. Cotton Plus (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1398	1398	0
2016-17	1381	1381	0
2017-18	900	900	0
2018-19	368	368	0
2019-20	811	811	0
2020-21	1298	1548	-250
54. Maize Maxim (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	218	218	0
2016-17	94	94	0
2017-18	183	183	0
2018-19	217	217	0
2019-20	55	55	0
2020-21	53	413	-360
55. Sugarcane booster (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	955	955	0
2016-17	761	761	0
2017-18	479	479	0
2018-19	4516	4516	0
2019-20	2943	2943	0
2020-21	943.25	943.25	0
56. Coconut Tonic (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	22956	23201	-245
2016-17	20964	20888	76
2017-18	39966	39999	-33
2018-19	65881	65888	-7
2019-20	50474	49449	1025

2020-21	65567	66618	-1051
57. Vermicompost (Ton)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	169.699	166.198	3.501
2016-17	187.227	185.689	1.538
2017-18	613.512	611.009	2.503
2018-19	301.436	267.68	33.756
2019-20	381.729	489.598	-107.869
2020-21	517.176	446.44	70.736
58. Biofertilizes (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	52701.6	51914	787.6
2016-17	72057	73769	-1712
2017-18	39972	39615	357
2018-19	58514	57946	568
2019-20	136509	136146	363
2020-21	25628	23919	1709
59. Pseudomonas (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	8494	8494	0
2016-17	10707	10592	115
2017-18	17357.5	17361.5	-4
2018-19	15460	15368	92
2019-20	14337	14996.5	-659.5
2020-21	2470	2305	165
60. Pseudomonas (Pf1) talc (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	7912	7912	0
2016-17	7524	7524	0
2017-18	6519	6519	0
2018-19	9378.4	9288.4	90
2019-20	8312	8064.5	247.5
61. Liquid Pseudomonas (Pf1) (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	241.5	241.5	0

2016-17	594.5	594.5	0
2017-18	730.5	730.5	0
2018-19	1350.5	1350.5	0
2019-20	936.5	936.5	0
62. Trichoderma (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	17792	15722	2070
2016-17	14906	14652	254
2017-18	18824.5	18500.5	324
2018-19	20790	20195	595
2019-20	13758	13452	306
2020-21	15522	14154	1368
63. Azospirillum (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5265	5259	6
2016-17	11982.5	11983.5	-1
2017-18	17517.7	17661.7	-144
2018-19	7285.5	7257.5	28
2019-20	7681.4	7647.4	34
2020-21	7943.8	7902.3	41.5
64. Phosphobacteria (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2906	2888	18
2016-17	11032	11285	-253
2017-18	17328.7	17257.7	71
2018-19	8632.5	8529.5	103
2019-20	7250.2	7321.2	-71
2020-21	8218.8	8043.3	175.5
65. VAM (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	3548	3548	0
2016-17	4848	4945	-97
2017-18	6963	6999	-36
2018-19	6063	5607	456
2019-20	6443	5790	653

2020-21	4085	4085	0
66. Rhizobium (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	484	471	13
2016-17	598.2	573.2	25
2017-18	573	563	10
2018-19	926	930	-4
2019-20	523	515	8
2020-21	228.2	202.7	25.5
67. Azolla / Azophos (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	406	267	139
2016-17	226	865	-639
2017-18	208	203	5
2018-19	390.5	377.5	13
2019-20	446.5	433.5	13
2020-21	122	122	0
68. BGA (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	705	615	90
2016-17	861	814	47
2017-18	1000	955	45
2018-19	850	817	33
2019-20	600	600	0
2020-21	631	600	31
69. Liquid formulation (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	0	16	-16
2018-19	20.5	20.5	0
70. PPFM (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	27	27	0
2016-17	35	35	0
2017-18	22	22	0
2018-19	26	26	0

2019-20	20	20	0
2020-21	2186	2144.5	41.5
71. Azotobacter (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	7	7	0
2018-19	32	32	0
2019-20	15	14	1
2020-21	205	197	8
72. KRB (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	6	6	0
2018-19	107.5	107.5	0
2019-20	18	18	0
2020-21	162.2	162.2	0
73. Glucano acetobacter (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5.3	5.3	0
2018-19	5	5	0
2019-20	5	5	0
74. KSB (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	19	19	0
75. ZSB (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	33	33	0
2020-21	54.8	54.8	0
76. Biofertilizers-carrier based (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	27922.8	27757.8	165
2018-19	38697.4	38558.4	139
2019-20	26679.4	26531.4	148
2020-21	44442	44148	294
77. Bio fertilizers - liquid (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	5176.5	5126.5	50

2018-19	2932	2911	21
2019-20	1625.5	1576.5	49
2020-21	8541	8507.5	33.5
78. Biocompost (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	400	400	0
79. Liquid Bio (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	177	163	14
2016-17	2478	2478	0
2017-18	1558	1550	8
2018-19	817	664	153
80. Enriched Compost (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	11000	11000	0
2019-20	6250	6250	0
81. Biocontrol Agents (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	10362	9908	454
2016-17	13754	13303	451
2017-18	11944	11771	173
2018-19	15015	14120	895
2019-20	50796	49302	1494
2020-21	1808497.5	1798274.5	10223
82. B.brevicornis (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	4494	4494	0
2016-17	5208	5208	0
2017-18	1144	1144	0
2018-19	1076	1076	0
2019-20	3509	3509	0
2020-21	1364	1364	0
83. Bacillus Talc (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	510	510	0

2016-17	985	985	0
2017-18	579	579	0
2018-19	160	160	0
2019-20	200	200	0
2020-21	4580	4411	169
84. Beauveria Talc (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	57	57	0
2018-19	43	43	0
2019-20	100	9	91
2020-21	335	299	36
85. Chrysoperla (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	35598	35598	0
2016-17	321800	321800	0
2017-18	688750	688750	0
2018-19	734850	734850	0
2019-20	1547850	1547850	0
2020-21	2309750	1609750	700000
86. Paecilomyces (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	25	25	0
2017-18	807	835	-28
2018-19	1663	1663	0
2019-20	238	238	0
2020-21	554	550	4
87. Trichogramma (CC)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	903	903	0
2016-17	1135	1135	0
2017-18	855	855	0
2018-19	696	696	0
2019-20	732	732	0
2020-21	200	184	16

88. T.Viride Talc formualtion (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5881	3812	2069
2016-17	6308	6109	199
2017-18	5045	4865	180
2018-19	9030	8235	795
2019-20	4500	4238	262
89.Trichoderma Talc (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	206	178	28
2019-20	711	636	75
90. Acerophagus (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	24500	24500	0
2016-17	26600	26600	0
2017-18	12100	12100	0
2018-19	5900	5900	0
2019-20	12100	12100	0
2020-21	300	300	0
91. Bracon (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5600	5600	0
2016-17	78670	78670	0
2017-18	21250	21250	0
2018-19	1250	1250	0
2019-20	5670	5670	0
2020-21	3000	3000	0
92. Goniozus (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1450	1450	0
2017-18	3700	3700	0
93. Cryptolaemus (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2296	2296	0

2016-17	2754	2754	0
2017-18	1560	1560	0
2018-19	1000	1000	0
2019-20	1776	1776	0
2020-21	120	120	0
94. Bee Colonies (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	20	6	14
2018-19	148	135	13
2019-20	222	212	10
2020-21	53	40	13
95. Panchakavya (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	4096	2378	1718
2016-17	3158	3125	33
2017-18	2941	2925	16
2018-19	2751	2672	79
2019-20	3029	2831	198
2020-21	3580	3419	161
96. Dasakavya (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2547	2361	186
2016-17	370	270	100
2017-18	170	158	12
2019-20	325	325	0
97. Vegetable Seeds (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	919.15	919.15	0
2016-17	1291.15	1132.2	158.95
2017-18	619.08	1167.3	-548.22
2018-19	394.2	365.9	28.3
2019-20	1534.5	1464.5	70
2020-21	369.3	806.8	-437.5
98. Paddy Seed (Kg)			
Period	Quantity Produced	Quantity Sold	Balance

2015-16	8445	8445	0
2016-17	22715	22715	0
2017-18	36208	11188	25020
2018-19	45749	31949	13800
2019-20	24729	22209	2520
2020-21	19440	17970	1470
99. Breeder Seed-TKM 9 (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2930	2930	0
2016-17	1960	1960	0
2017-18	2815	2815	0
2018-19	3510	3510	0
2019-20	2028	2028	0
2020-21	3006	3006	0
100. Breeder Seed-ADT® 45 (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	4252	4252	0
2016-17	2000	2000	0
2017-18	3000	3000	0
2018-19	3510	3510	0
2019-20	1539	1539	0
101. Breeder Seed - TKM 13 (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	490	490	0
2016-17	2507	2507	0
2017-18	4540	4540	0
2018-19	6865	6865	0
2019-20	3180	3180	0
2020-21	2600	2600	0
102. Rice-Seed (BS,FS & CS) (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	1310	37335	-36025
2018-19	17170	4670	12500
2019-20	18000	18000	0
2020-21	12000	0	12000

103. Oil seeds (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	7875	7875	0
2016-17	5424	5424	0
2017-18	4779	4779	0
2018-19	3416	3416	0
104. Ornamental seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	63	63	0
105. Atulya chip bud seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	1800	1800	0
106. Nannari seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	396	396	0
107. Si8 chipnudded seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	30015	30015	0
2016-17	8500	8500	0
2017-18	100	100	0
2018-19	600	600	0
2019-20	136	136	0
108. Cinnamon / Clove / Nutmeg / Garcinia / Arecaunat / Other Seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1650	1541	109
2016-17	2840	2267	573
2017-18	2838	3375	-537
2018-19	1160	844	316
2019-20	668	668	0
2020-21	55600	4530	51070
109. Seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	5455	57805	-52350
2016-17	91946	90796	1150

2017-18	107654	106524	1130
2018-19	88098	73048	15050
2019-20	53405	45251	8154
2020-21	602	602	0
110. Seed Production (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	76223	76223	0
2016-17	122061	122061	0
2017-18	72144	72144	0
2018-19	102605	102605	0
111. Tree Seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	98261	93091	5170
2016-17	126859	116582	10277
2017-18	182097	158238	23859
2018-19	219987	182780	37207
2019-20	240986	233446	7540
2020-21	150052	71083	78969
112. Papaya Seedlings & Moringa Seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2519.5	2519.5	0
2016-17	3111	3111	0
2017-18	2134	2134	0
2018-19	722	518	204
2019-20	450	303	147
113. Tissue Culture Seedlings (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	3000	2100	900
2019-20	500	500	0
114. Planting Materials (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2178879	2175075	3804
2016-17	1518170	1484706	33464
2017-18	1085244	1078033	7211
2018-19	1111642	1121089	-9447

2019-20	877522	874696	2826
2020-21	566426	566459	-33
115. Nutriseed Packs (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	48125	35600	12525
2016-17	18825	18700	125
2017-18	1125	1000	125
2018-19	125	125	0
116. Nutri Pellet Packs (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	40350	36300	4050
2016-17	181650	70536	111114
2017-18	134814	30145	104669
2018-19	121169	121169	0
2019-20	7900	7900	0
2020-21	15710	12000	3710
117. Fertilizer Pellet Packs (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	34200	34000	200
2016-17	36750	15000	21750
2017-18	21750	12650	9100
2018-19	9700	9700	0
118. Castor gold (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	190	206	-16
2016-17	22	22	0
2017-18	55	55	0
2018-19	147	134	13
2019-20	500	487	13
2020-21	310	307	3
119. Polybag plants (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	65	65	0
2016-17	274	274	0
2017-18	327	327	0

2018-19	289	289	0
120. Pot plants (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2	2	0
2016-17	78	78	0
2017-18	7	7	0
121. Water lily (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1	1	0
2016-17	63	63	0
2017-18	23	23	0
122. Honey (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	131	131	0
2016-17	118	118	0
2017-18	222	222	0
2018-19	493.9	464.9	29
2019-20	405.5	405.5	0
2020-21	503.5	503.5	0
123. Earthworms (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	67.4	67.4	0
2016-17	216.125	216.125	0
2017-18	147.6	147.4	0.2
2018-19	1441.75	1441.75	0
2019-20	145.3	79.05	66.25
2020-21	18	49.75	-31.75
124. FP7 Talc (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	120	120	0
2016-17	151	151	0
2017-18	52	52	0
2018-19	110	110	0
125. Mother Culture (Kg)			
Period	Quantity Produced	Quantity Sold	Balance

2015-16	131	131	0
2016-17	143	143	0
2017-18	119	119	0
2018-19	136	136	0
2019-20	50	50	0
2020-21	71	71	0
126. Trichoderma mother culture tube (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	50	46	4
2016-17	41	38	3
2017-18	32	22	10
2018-19	20	15	5
2019-20	15	13	2
2020-21	20	18	2
127. Comb foundation sheet (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	82	82	0
2016-17	231	231	0
2017-18	571	571	0
2018-19	1123	1123	0
2019-20	483	483	0
2020-21	1416	1416	0
128. Bee hives (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	127	127	0
2019-20	169	169	0
2020-21	53	53	0
129. Corcyra (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	111	111	0
2016-17	139	139	0
2017-18	147	147	0
2018-19	100	100	0
2019-20	436	411	25
2020-21	980	980	0

130. Nematode antagonistic fungi (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	1374	1374	0
2017-18	2133	2133	0
2018-19	2250	2250	0
2019-20	3000	2287	713
2020-21	0	0	0
131. Ornamental foliage and flowering plants, commercial flower crops (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	145	145	0
2019-20	7000	6328	672
2020-21	1200	911	289
132. Eucalyptus Oil (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	21.06	19.68	1.38
2016-17	111.2	111.2	0
2017-18	83.28	83.28	0
2018-19	40.41	26.74	13.67
2019-20	232	91.63	140.37
2020-21	287.9	138.98	148.92
133. Citronella Oil (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	0.75	0.75	0
2020-21	6.7	6.12	0.58
134. Tea Tree Oil (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	0	0.27	-0.27
2019-20	3.12	2.04	1.08
2020-21	1.3	2.37	-1.07
135. TNAU Biomineralizer (Packets)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	17474	17474	0
2016-17	72800	72800	0
2017-18	17897	17897	0
2018-19	4468	4468	0

2019-20	2185	2185	0
136. Green manure (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	1144	522	622
2017-18	390	1004	-614
2018-19	2714	1403	1311
2019-20	1641	2724	-1083
2020-21	1788	1592	196
137. Conservation of Plant genetic resources (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	27081	27081	0
2016-17	27219	27219	0
2017-18	27232	27232	0
2018-19	27594	27594	0
2019-20	27828	27828	0
138. Ornamental & Medicinal plants (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	7196	6508	688
2016-17	6765	6202	563
2017-18	8535	7931	604
2018-19	10412	9908	504
2019-20	11204	10214	990
2020-21	16000	15959	41
139. Tree Killer (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	40.5	24	16.5
2019-20	17.75	15.5	2.25
2020-21	61.5	41.75	19.75
140. Banana bunches (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	638.5	638.5	0
2016-17	268	268	0

2017-18	416	416	0
2018-19	294.5	294.5	0
2019-20	321.5	321.5	0
2020-21	286.5	286.5	0
141. Juice (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	1020	1020	0
2018-19	150	150	0
142. Arid zone crops			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	6650	6650	0
2016-17	2686	2686	0
2017-18	2705	2705	0
2018-19	3598	3598	0
2019-20	4507	4507	0
2020-21	4791	4791	0
143. Fruit Plants (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	23346	19208	4138
2016-17	29732	29154	578
2017-18	35799	18042	17757
2018-19	42898	28168	14730
144. Mycorrhiza (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	18	18	0
145. Seed cane (tons)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	23.8075	23.8075	0
2016-17	25.439	25.439	0
2017-18	51.526	51.526	0
2018-19	30034.492	26124.492	3910
2019-20	26296.965	26296.965	0
2020-21	60140	60140	0

146. Cewing cane (tons)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	20	20	0
147. Vermi Bag (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	14	14	0
2017-18	12	12	0
2018-19	19	19	0
2019-20	2	2	0
2020-21	1	1	0
148. Multipurpose tree species (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	4000	3650	350
2016-17	3000	2810	190
2017-18	4000	3650	350
2018-19	6000	5034	966
2019-20	7000	6730	270
2020-21	16500	5200	11300
149. PIALS Citrus Sapling (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	1300	1300	0
2016-17	772	772	0
2017-18	416	416	0
2018-19	318	318	0
2019-20	371	371	0
150. RTS (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	350	350	0
2016-17	2282	2282	0
2017-18	1075	1075	0
2018-19	3017	3017	0
2019-20	7002	7002	0
2020-21	3504	3062	442

151. Pickle (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	19.75	19.75	0
2016-17	37.5	37.5	0
2017-18	43.75	43.75	0
2018-19	25	25	0
2019-20	1	1	0
2020-21	5.6	5.6	0
152. Curry leaves, WI cherry Cuttings, Shade grasses (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	140	140	0
2016-17	82	82	0
2017-18	20	20	0
2018-19	17	17	0
153. Coriander Leaves (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	47	47	0
154. Banana Leaf (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	130	130	0
2016-17	290	290	0
2017-18	435	435	0
2018-19	73	73	0
2019-20	85	85	0
155. Health Mix (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	102	102	0
2016-17	103	103	0
2017-18	109	109	0
2018-19	54	54	0
2019-20	80.6	80.6	0
2020-21	53	53	0
156. Puttu Mix (Kg)			
Period	Quantity Produced	Quantity Sold	Balance

2015-16	19	19	0
2016-17	13	13	0
2017-18	39	39	0
157. Adai Mix (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	18	18	0
2016-17	19	19	0
2017-18	21	21	0
158. Millet Sweet Ball (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	981	981	0
2016-17	634	634	0
2017-18	1600	1600	0
2018-19	379	379	0
2019-20	850	850	0
2020-21	557	577	-20
159. Millet Biscuit (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	813	855	-42
2016-17	519.9	519.9	0
2017-18	656.4	656.4	0
2018-19	121	121	0
2019-20	0	42	-42
2020-21	22	22	0
160. Health Drink (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	7355	7355	0
2016-17	9601	9601	0
2017-18	8723	8723	0
2018-19	6619	6619	0
2019-20	5075	5075	0
161. Sprouted Sundal (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	3270	3270	0
2016-17	4282	4282	0

2017-18	2121	2121	0
2018-19	2220	2220	0
162. Amla Squash / graft (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	46	46	0
2016-17	44	44	0
2020-21	1429	1429	0
163. Mixed Fruit Squash (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	10	10	0
2020-21	57	52	5
164. Mango Squash / graft (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	9508	8235	1273
2016-17	5446	5119	327
2017-18	5627	3326	2301
2018-19	3912	2152	1760
2019-20	3500	1501	1999
2020-21	3760	3760	0
165. Guava Squash (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	20	20	0
2016-17	2911	2879	32
2017-18	4100	2068	2032
2018-19	2185	1805	380
2019-20	5991	5779	212
2020-21	2429	2408	21
166. Brinjal Seeds / Fruits (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	8.8	8.8	0
2018-19	72.8	72.8	0
2019-20	20	20	0
2020-21	40	28	12
167. Sapota Fruits (Nos)			
Period	Quantity Produced	Quantity Sold	Balance

2015-16	2500	1962	538
2016-17	4006	3962	44
2017-18	3303	955	2348
2018-19	7331	3518	3813
2019-20	2000	1966	34
2020-21	3362	3362	0
168. Jack Fruits (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	206.5	206.5	0
2018-19	348.75	348.75	0
2020-21	10	10	0
169. Lime Fruits (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	69	69	0
2018-19	162.5	162.5	0
170. Wild boar repellent (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	16.5	16.5	0
2018-19	236	236	0
2019-20	471	471	0
2020-21	971.5	971.5	0
171. Samai haulms (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	200	200	0
172. Simaruba (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	180	180	0
173. Insulin Plant (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	6	6	0
174. SEEDS (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	4305.15	4305.15	0
2016-17	3363	3363	0
2017-18	2102	2102	0

2018-19	1269	1269	0
2019-20	2257	2257	0
2020-21	2852	2852	0
175. GREEN FODDERS (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	259	259	0
2016-17	242	242	0
2017-18	130	130	0
2018-19	250	250	0
2019-20	412.17	412.17	0
2020-21	260.86	260.86	0
176. Ornamental Plants cut flowers foliage plants spices - pepper, panniyur-1, sakthi, thevam fruits - timla fig, ycd-1			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	18797	18797	0
2016-17	21770	21770	0
2017-18	14286	14286	0
2018-19	3990	3990	0
2019-20	7177	2906	4271
2020-21	10168	9929	239
177. Pine apple squash (Lit)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	5	5	0
178. NEEM (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2017-18	72500	67234	5266
2018-19	20463	4963	15500
2019-20	38900	23900	15000
2020-21	35998	13000	22998
179. Cono weeder (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	5	5	0
180. Sugarcane Dehusker (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	12	12	0

2020-21	2	2	0
181. Chicken (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	972	972	0
182. Atemoya (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	468	102	366
183. Aonla (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	560	249	311
2016-17	1396	1390	6
2017-18	1565	559	1006
2018-19	2756	2751	5
184. Manila Tamarind (nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	2500	2400	100
2016-17	1267	1258	9
2017-18	4650	4640	10
2018-19	5563	5533	30
2019-20	1200	1019	181
2020-21	3072	3072	0
185. Jamun (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	538	247	291
2016-17	551	523	28
2017-18	688	661	27
2018-19	593	593	0
2019-20	2500	845	1655
2020-21	944	944	0
186. Wood apple (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	608	15	593
2020-21	98	98	0
187. HORTICULTURAL CROPS (Nos)			
Period	Quantity Produced	Quantity Sold	Balance

2018-19	145		145
2019-20	7000		7000
188. Pf1 (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	462	462	0
2016-17	873	873	0
2017-18	535	535	0
2018-19	382	382	0
2019-20	371	371	0
189. Cookies (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	83.5	83.5	0
190. Cake (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	65.5	65.5	0
191. Paddy Straw			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	500	500	0
2020-21	700	700	0
192. Banana plant with bunch			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	2	2	0
193. Mango Choice varley (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	301	301	0
194. Bakery Products (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	49009	49009	0
2016-17	55096	55096	0
2017-18	47330	47330	0
2018-19	47531	47531	0
2019-20	69142	69142	0
2020-21	31277	31277	0
195. Tapping of rubber trees			
Period	Quantity Produced	Quantity Sold	Balance

2019-20	1500	0	1500
2020-21	1500	0	1500
196. Potash RELEASING BACTERIA			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	150	135	15
2020-21	1869	1854	15
197. Flower Plants poly bag			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	858	459	399
198. Ornamental plant pot size (1/4, 1/2)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	336	33	303
199. West Indian cherry			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	10	1	9
2020-21	615	615	0
200. Hedge plant			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	195	186	9
2020-21	20.4	20.4	0
201. Palmyrah leaf stalk			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	1800	1800	0
202. Rice (ADT 43, 46, 49,50,51,53, CR 1009, cr 1009 sub1, CO 50, CO 51, BPT 5204, I WHITE PONNI) (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	69588	69588	0
2016-17	119967	119967	0
2017-18	59954	59954	0
2018-19	100169	100169	0
2019-20	114807	114807	0
2020-21	130161	130161	0
203. Chewing Cane (tons)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	447	447	0

2020-21	99	99	0
204. Breeder Seed cane (TONS)			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	75.55	75.55	0
2020-21	19.084	19.084	0
205. Spawn bags (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	416	416	0
2017-18	926	926	0
2018-19	620	620	0
2019-20	1403	1403	0
2020-21	335	335	0
206. Chrysoperla eggs			
Period	Quantity Produced	Quantity Sold	Balance
2019-20	14000	0	14000
2020-21	14000	0	14000
207. Si 8 seed canes			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	1900	1900	0
208. Si 7 seed cane			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	2370	2370	0
209. Si 7 seed canes			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	2370	2370	0
210. Si 8 milling canes			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	11.37	11.37	0
211. Bacillus subtilis			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	2356.5	2311.5	45
212. Fish			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	2129	1500	629
213. VGD 1			

Period	Quantity Produced	Quantity Sold	Balance
2020-21	1500	100	1400
214. Sugarcane			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	125	0	125
215. Turmeric			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	42	0	42
216. Improved chulhas			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	23	1	22
217. Biomass briquettes			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	1	0	1
218. Utilization of solar tunnel dryer			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	6	0	6
219. Biogas plant models			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	0	3	-3
220. Vermicompost siever			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	1	0	1
221. Metarhizium Talc			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	201	123	78
222. Bacillus subtilis - Mother culture			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	13	13	0
2017-18	13	13	0
2018-19	10	10	0
2019-20	14	14	0
2020-21	20	20	0
223. Liquid Paecilomyces			
Period	Quantity Produced	Quantity Sold	Balance

2020-21	23	23	0
224. Bael grafts			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	375	375	0
225. West Indian cherry grafts			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	615	615	0
226. Compost/sludge/oil cakes analysis			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	168	0	168
2017-18	344	0	344
2018-19	398	0	398
2019-20	379	0	379
2020-21	283	0	283
227. Chaffy grains			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	4650	4400	250
228. F1 GENERATION			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	651	515	136
229. Culture tube			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	0	4	-4
230. Vegetative propagules			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	9454	0	9454
2017-18	9362	0	9362
2018-19	3111	0	3111
2019-20	10147	0	10147
2020-21	7858	0	7858
231. Geranium oil			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	190	0	190
232. Rosemary dry leaves			
Period	Quantity Produced	Quantity Sold	Balance

2020-21	4	2.15	1.85
233. Bioinoculants including vermicompost			
Period	Quantity Produced	Quantity Sold	Balance
2018-19	9106	9106	0
2019-20	1832	1832	0
2020-21	5921	5921	0
234. Jam (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	1.9	1.9	0
235. Moringa soup			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	180	180	0
236. Fruit bar			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	121	121	0
237. Millet milk			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	9601	9601	0
2017-18	8723	8723	0
2018-19	6619	6619	0
2019-20	5075	5075	0
2020-21	2544	2544	0
238. TNAU Hand sanitizer			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	76	76	0
239. Talc PL & PC			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	2000	1694	306
240. Liquid PL & PC			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	250	230	20
241. Sunnhemp			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	830	830	0
242. Jaggery			

Period	Quantity Produced	Quantity Sold	Balance
2020-21	140.5	140.5	0
243. CO (CN)5 slips			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	0	100	-100
244. KG vegetable seed packets			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	0	4791	-4791
245. Neem oil EC			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	210	200	10
246. AM Fungi			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	1286	1286	0
247. Natural dye raw materials			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	170	152	18
248. Milk Coupon			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	757.5	757.5	0
249. Vegetables & Fruits			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	17.75	17.75	0
250. Silkworm cocoons			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	15.7	15.7	0
251. Oyster mushroom			
Period	Quantity Produced	Quantity Sold	Balance
2020-21	49.35	49.35	0
252. Bed Spawn (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	9405	-9405
2018-19	10050	9450	600

2019-20	3957	3289	668
2020-21	5920	5467	453
253. Mother Spawn (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	19	19	0
2016-17	35	35	0
2017-18	456	405	51
2018-19	394	356	38
2019-20	250	220	30
2020-21	192	127	65
254. Spawn (Nos)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	946	946	0
2016-17	6026	6026	0
2017-18	9147	9147	0
2018-19	5923	5923	0
2019-20	11457	10894	563
2020-21	3979	332	3647
255. Edible Mushroom (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	4.3	4.3	0
2016-17	10.5	10.5	0
2017-18	5.6	5.6	0
2018-19	1.3	1.3	0
2019-20	6.8	6.8	0
2020-21	4.98	4.98	0
256. Mushroom bed spawn (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2015-16	85	85	0
2016-17	45	45	0
2017-18	37	37	0
2018-19	433	404	29
2019-20	385	378	7
2020-21	1562	1532	30

257. Mushroom (Kg)			
Period	Quantity Produced	Quantity Sold	Balance
2016-17	24.15	24.15	0
2017-18	18.52	18.52	0
2018-19	48.41	48.41	0
2019-20	10.504	10.504	0
2020-21	22.47	22.47	0

Annexure – IV – B

i. Analytical Services

S.No	Particulars	Period	No. of Samples
1	Soil Samples	2015-16	2437
		2016-17	2447
		2017-18	2624
		2018-19	2981
		2019-20	2883
		2020-21	3451
2	Water Samples	2015-16	686
		2016-17	687
		2017-18	824
		2018-19	878
		2019-20	759
		2020-21	759
3	Manure Samples	2015-16	203
		2016-17	357
		2017-18	483
		2018-19	656
		2019-20	693
		2020-21	243
4	Quality / Plant Analysis	2015-16	689
		2016-17	1842
		2017-18	3232
		2018-19	3414
		2019-20	3330
		2020-21	2845

5	Plant Metabolite / volatile analysis	2015-16	4124
		2016-17	0
		2017-18	0
		2018-19	2
		2019-20	95
		2020-21	8
6	Metabolic analysis	2015-16	0
		2016-17	0
		2017-18	236
		2018-19	666
		2019-20	606
		2020-21	477
7	Food analytical services	2015-16	911
		2016-17	528
		2017-18	530
		2018-19	780
		2019-20	864
		2020-21	804

ii. Training

S.No	Particulars	Period	No. of Training
1	Mushroom Training	2015-16	392
		2016-17	284
		2017-18	226
		2018-19	218
		2019-20	189
		2020-21	342
2	Training (HC&RI, PKM)	2015-16	8
		2016-17	0
		2017-18	0
		2018-19	2
		2019-20	1
		2020-21	0
3	One Day Training	2015-16	792
		2016-17	814
		2017-18	1892
		2018-19	1936
		2019-20	1886
		2020-21	800

4	Five Day Training	2015-16	0
		2016-17	0
		2017-18	40
		2018-19	29
		2019-20	42
		2020-21	0
5	Training Count (Chennai)	2015-16	95
		2016-17	78
		2017-18	87
		2018-19	83
		2019-20	73
		2020-21	12
6	Training Participants Count (Chennai)	2015-16	3717
		2016-17	2660
		2017-18	2776
		2018-19	2233
		2019-20	1818
		2020-21	153
7	Training Count (CSC&RI, MDU)	2015-16	0
		2016-17	8
		2017-18	32
		2018-19	23
		2019-20	13
		2020-21	10
8	Vermicompost training	2016-17	43

iii. Other Components

S.No	Particulars	Period	Count
1	Live Goat	2015-16	0
		2016-17	10
		2017-18	12
		2018-19	28
		2019-20	17
		2020-21	57
2	Animals & Birds	2015-16	15
		2016-17	22
		2017-18	15
		2018-19	24
		2019-20	44
		2020-21	31

3	Pork	2015-16	269
		2016-17	1244
		2017-18	1873
		2018-19	1827
		2019-20	783
		2020-21	1333
4	Kid	2015-16	0
		2016-17	20
		2017-18	49
		2018-19	35
		2019-20	51
		2020-21	31
5	Entry fee	2015-16	0
		2016-17	0
		2017-18	0
		2018-19	26883
		2019-20	21689
		2020-21	1472
6	Insectoscope	2015-16	0
		2018-19	1855
		2019-20	0
		2020-21	0
7	Souvenir sales	2015-16	0
		2018-19	388
		2019-20	0
		2020-21	0
8	Transcript Card	2015-16	746
		2016-17	1622
		2017-18	1888
		2018-19	2592
		2019-20	1784
		2020-21	1911
9	DSSIFER CD	2015-16	38
		2016-17	38
		2017-18	17
		2018-19	17
		2019-20	33
		2020-21	15

10	VDK CD	2015-16	47
		2016-17	47
		2017-18	34
		2018-19	25
		2019-20	44
		2020-21	68
11	Display board	2019-20	1
		2020-21	0
12	Video film production	2019-20	8
		2020-21	0
13	Bakery Product (KG)	2015-16	423
		2016-17	737.5
		2017-18	432.85
		2018-19	307.35
		2019-20	527.5
		2020-21	638.4
14	Milk	2015-16	0
		2016-17	0
		2017-18	0
		2018-19	920
		2019-20	2910
		2020-21	2684.75
15	Agricultural Machineries	2015-16	32
		2016-17	36
		2017-18	50
		2020-21	79