

TAMIL NADU AGRICULTURAL UNIVERSITY

PROCEEDINGS

**2nd Scientists' Meet on Production Oriented
Project (All VCS, RF & Others)**

(May - 8 , 2019)

Lead Centre

Directorate of Agribusiness Development
Tamil Nadu Agricultural University
Coimbatore 641 003

Directorate of Research
Tamil Nadu Agricultural University
Coimbatore 641 003

2019

PROCEEDINGS

2nd Annual Scientists' Meet 2019 (April 9-10, 2019)

The crop scientists meet on production oriented projects was held on 08.05.2019 (AN) which was chaired by the Vice Chancellor, TNAU. The Director of Research, Director (ABD), Director (CPBG), Director (Seed Centre), Director (CPPS), Director (WTC), Director (CARDS), Director (NRM), Dean (Hort), DEE , Professor and Heads from colleges, research stations and scientists involved in the production oriented projects attended the meet. The meeting began with a prelude by **Dr.K.S.Subramaniam**, Director of Research, Tamil Nadu Agricultural University, Coimbatore. The Director of Research emphasized the need for production oriented projects as it gives opportunity for the scientists to promote technologies and services to the farming community and agripreneurs, which in turn generated income.

The progress of work for the venture capital schemes was presented by **Dr.S.D.Sivakumar**, Director (ABD), TNAU, Coimbatore. The progress of breeder seed production under revolving fund projects at various stations were presented by Director (CPBG) and the progress of foundation, certified and TFL seed production under revolving fund projects were presented by Director (Seed Centre), TNAU, Coimbatore. The Dean (Hort) presented the progress of work for horticultural crops. The progress of the revolving fund projects at Natural Resource Management and Directorate of Extension Education were presented by Director (NRM) and Director (EE), respectively. The Comptroller, TNAU emphasized the importance of filing GST every month for all eligible schemes from 01.07.2017. The consultant for TNAU on GST explained the GST applicable for various inputs produced from VCS and revolving fund.

The Vice-Chancellor, TNAU appreciated the scientists involved in successful VCS projects. He pointed out that the VCS should not only aim at profits but also serve the community with the technologies and products developed.

The proceedings of the meet is furnished as below

I VENTURE CAPITAL SCHEMES

- A. Introduction
- B. Details of review conducted
- C. Performance Analysis of VCS
- D. VCS Closure / Merger
- E. Detailed review report of VCS
- F. Action Plan 2019-20

II REVOLVING FUND

- A. SEED
- B. HORTICULTURE
- C. CPBG
- D. DNRM
- E. DEE
- F. Action Plan 2019-20

III CLOSING REMARKS & WAY FORWARD

IV PARTICIPANTS

V ANNEXURE

- A. List of Projects & its activities
- B. List of Inputs / Products / Services
- C. Product wise analysis of VCS

PROCEEDINGS

2nd Annual Scientists Meet 2019 (May 8, 2019)

VENTURE CAPITAL SCHEMES

A. Introduction

The Venture Capital Schemes (VCS) were initiated in the year 2003. During 2018 -19, 145 Venture Capital Schemes were functioning and about 165 inputs / products / services were provided through the Venture Capital Schemes

Overall objectives of the VCS

- To provide farmers with quality agricultural inputs like seeds, seedlings, grafts, vermicompost, biofertilizers, biocontrol agents, coconut tonic etc.,
- to provide training to farmers on agribusiness management
- to generate revenue to the University through sale of products / services
- to operate model units for skill development and entrepreneurship

Based on the proposals of new viable ventures received from the scientists of TNAU, seed money was sanctioned from ERDF.

Major ongoing activities

- Seeds / seedlings in agricultural /horticultural / forestry crops and trees
- Vermicompost production and training
- Production and sale of Bio-fertilizers
- Production and sale of Bio control agents
- Production and sale of micronutrients
- Mushroom production and training
- Fodder production
- Food processing and training
- Animal husbandry
- Analytical and advisory services
- Bee keeping
- Agricultural machineries

B. Details of Review Conducted

Sl.No.	Date	Centres	No. of VCS reviewed
1	12.04.2019	RRS, Tirur, VRS, Palur, Centre of Excellence in Millets, Athiyandal, RRS, Ambasamudram, AC&RI, Vazhavachanur, CRS, Aliyarnagar, HRS, Yercaud, T&CRS, Yethapur	18
2	22.04.2019	FC&RI-Mettupalayam, ARS, Bhavanisagar	12
3	23.04.2019	Directorate of Extension Education, TNAU, CBE Directorate of COE, TNAU, CBE HC&RI, TNAU, CBE Directorate of NRM, TNAU, CBE AEC&RI, TNAU, CBE, HRS, Ooty	19
4	25.04.2019	HRS, Pechiparai TNAU-Information Training Centre, Chennai	3
5	26.04.2019	HRS, Thoivalai	1
6	29.04.2019	Directorate of CPPS, TNAU, CBE Directorate of CPBG, TNAU, CBE Directorate of Crop Management, TNAU, CBE Directorate of Seed Centre, TNAU, CBE RRS, Paiyur	20
7	02.05.2019	AC&RI, Madurai , HSC&RI, Madurai RRS, Arupukottai, HC&RI, Periyakulam HRS, Kodaikanal, HRS, Thadiyankudisai GRS, Theni, ADAC&RI, Trichy HC&RI Women, Trichy, AEC&RI, Kumulur AC&RI, Eachangkottai, TRRI, Aaduthurai ARS, Pattukottai, CRS, Veppankulam CRS, Veppanthatai, NPRC, Vamban SRS, Sirugamani, AC&RI, Killikulam ARS, Thirupathisaram, ARS, Kovilpatti	60
8	06.05.2019	ARS, Virinjipuram SRS, Melalathur, SRS, Cuddalore Physical Education, AC&RI, TNAU, CBE Directorate of CPBG, TNAU, CBE Directorate of Crop Management, TNAU, CBE	8

C. Performance Analysis of VCS

Seed Money Paid and Balance for VCS functioning during 2018 - 19

(Rs. in lakhs)

S. No	Particulars	Amount
1	Seed money sanctioned	301.60
2	Seed money returned	239.94
3	Seed money balance	61.66
	Share of Balance Seed money to sanctioned (%)	20.44

Institutional Charges Paid

(Rs. in lakhs)

S. No	Institutional Charges	Amount	Change over Previous year (%)
1	IC 2015-16	86.49	---
2	IC 2016-17	96.00	1.10
3	IC 2017-18	86.96	- 9.42
4	IC 2018-19	101.52	16.75

Total Revenue Generated

(Rs. in lakhs)

S. No	Total Revenue Generated	Amount	Change over Previous year (%)
1	TRG 2015-16	596.22	--
2	TRG 2016-17	652.97	9.52
3	TRG 2017-18	607.59	- 6.95
4	TRG 2018-19	717.81	18.14

Expenditure Incurred

(Rs in lakhs)

S. No	Year	Recurring	% to total	Non Recurring	% to total	CoP	% to total	Total Exp	%
1	2015-16	290.46	67.22	103.68	23.99	37.98	8.79	432.13	100.00
2	2016-17	336.08	58.17	191.33	33.11	50.38	8.72	577.80	100.00
3	2017-18	352.51	58.41	188.74	31.27	62.28	10.32	603.54	100.00
4	2018-19	383.56	62.91	152.71	25.05	73.46	12.05	609.73	100.00

Profit Generated

(Rs in lakhs)

S. No	Year	Total Revenue	Total Expenditure	Profit (Before Tax and IC)
1	2015-16	596.22	432.13	164.10
2	2016-17	652.97	577.80	75.17
3	2017-18	607.59	603.54	4.06
4	2018-19	717.81	609.73	108.08

Profits after IC

(Rs in lakhs)

S. No	Year	Profit (Before Tax and IC)	IC	Profits after IC
1	2015-16	164.10	86.49	77.60
2	2016-17	75.17	96.00	- 20.84
3	2017-18	4.06	86.96	- 82.90
4	2018-19	108.08	101.52	6.56

D. VCS Closure / Merger

Based on the review conducted the following VCS are suggested for closure

Sl.No.	Centres	VCS Code & Title	Reason for closure
1	Dr.M.Velmurugan, Asst.Prof.(Horti), HC&RI, TNAU, CBE	V60AN- Mass production of ornamental and medicinal plants for commercial outlet	Since the revolving fund scheme is in operation in the dept. with the same objectives of production and sale of ornamental plants, merge the VCS activities with the RF Scheme. Closure proposal of VCS project may be sent for approval
2.	Dr.M.Marimuthu Assoc Prof (FSN) ADAC & RI, Tiruchirappalli	V60HV Production and sale of value added products	Closure proposal not sent as per proceedings

3.	Dr. N. Manivannan Prof and Head, NPRC	V60HP Production of Foundation and Certified Crops in Agricultural Crops	RF with same objectives, VCS may be closed
4.	Dr. P. Hemalatha Asst. Prof. (Hort.), ARS, Bhavanisagar	V60AT Clonal propagation of BSR-1 Amla for commercial outlet	As the objective of the VCS is similar to the revolving fund scheme (Horticulture), this VCS may be merged with revolving fund scheme (Horticulture) Closure proposal may be sent to the Director (ABD), TNAU, Coimbatore after obtaining proper approval from the University.
5.	Dr. P. Hemalatha Asst. Prof. (Hort.), ARS, Bhavanisagar	V60EB Commercial production and distribution of Banana suckers, fruits and leaves	As the objective of the VCS is similar to the revolving fund scheme (Horticulture), this VCS may be merged with revolving fund scheme (Horticulture) Closure proposal may be sent to the Director (ABD), TNAU, Coimbatore after obtaining proper approval from the University.

Based on the review conducted the following VCS are suggested for merger

Sl.No.	Centres	VCS Code & Title	Reason for closure
1	Dr.S.Kamalasundari Asst Prof (FSN) CSC&RI, Madurai	V60DU Strengthening commercial food processing training programme including consultancy to NGOs, Govt, private institutions and corporate	The objective of the V60DU scheme is same as that of V60 HJ. Send Closure Proposal for VCS V60DU and merge its objectives & activities with the VCS V60HJ. Then send Action plan & Extension Proposal of V60HJ to DABD

2.	Dr. S. Pugalendhi Professor and Head Dept. of Bio energy, TNAU, Coimbatore	V60HK Enhancing Biogas Promotion and Implementation through Commercial Module and Consultancy of Renewable Energy Systems	The objective of the V60HK scheme is same as that of V60 HL. Send Closure Proposal for VCS V60HL and merge its objectives & activities with the VCS V60HK. Then send Action plan & Extension Proposal of V60HK to DABD
3.	Dr R. Uma Sankareswari Asst Prot. Dept. of Microbiology, AC&RI, Madurai	V60FS Mass Production of <i>Arbuscular Micorrhizal</i> fungi and azolla	The objective of the V60FS scheme is same as that of V60 EN. Send Closure Proposal for VCS V60FS and merge its objectives & activities with the VCS V60EN. Then send Action plan & Extension Proposal of V60EN to DABD
4.	Dr. M. Palanikumar Asst Prof (Horti)	V60GM Multiplication of forest and ornamental trees	The objective of the V60GM scheme is same as that of V60 AW. Send Closure Proposal for VCS V60GM and merge its objectives & activities with the VCS V60AW. Then send Action plan & Extension Proposal of V60AW to DABD

E. Detailed Review report of Venture Capital Schemes (VCS) Operated in TNAU

S.No	VCS Code	Title of the VCS	Name of the PI / Presentor	Remarks
1	V60EY	Analysis of Pesticide Residues for Agribusiness Entrepreneur	Dr. K. Bhuvaneshwari, Prof Ento	Reasons for decline in revenue in 2018 – 19 may be indicated JRF may be included
2	V60EJ	Production and Sale of Indian bee colonies	Dr. P.A Saravanan	Honey flow has to be increased – Stingless bee may be promoted Profitability of the enterprise may be analyzed
3	V60HM	Mass production of insect biocontrol agents	Dr.Jeyarajan Nelson	Reasons for drastic reduction in revenue may be indicated JRF may be engaged
4	V60IO	TNAU Insect Museum	Dr N.Chitra	Avenues for revenue generation and mobilization of fund flow has to be examined to make it self sufficient – School children visit, Insect Day, Post cards, CSR funds from corporate firms
5	V60HI	Production and Quality Control of Microbial Inoculants	Dr. V. Gomathi Prof and Head Dept of Ag Microbiology	VCS may be continued
6	V60IC	Metabolomic and Proteomic Analytical facility	Dr. U.Sivakumar, Prof Ag Microbiology	VCS may be continued
7	V60HK	Enhancing Biogas Promotion and Implementation through Commercial Module and Consultancy of Renewable Energy Systems	Dr. S. Pugalendhi Professor and Head Dept. of Bio energy	This scheme may be merged with V60 HL continue V60 HK

8	V60HL	Analysis of Energy Generation Potential of Renewable Sources and Promotion of Sale of Improved Chulhas	Dr. S. Pugalendhi Professor and Head Dept. of Bio energy	VCS may be closed
9	V60BS	Improvement of Examination Processing systems at Controllerate of Examinations	Dr. Suriyanatha Sundaram CoE, TNAU, Coimbatore	VCS may be continued
10	V60AA	Production and Sale of TNAU Coconut Tonic and Crop Boosters	Dr. P. Jeyakumar Prof and Head, CRP	VCS may be continued
11	V60EH	Swimming Pool	Dr. Rhagavan, Director Physical Education, TNAU	VCS may be continued
12	V60ET	Modern gym establishment	Dr. Rhagavan, Director Physical Education, TNAU	VCS may be continued
13	V60HG	Production of Organic Manures from the Biodegradable wastes	Dr.P.Kalaiselvi, Asst.Prof.(ENS), Directorate of NRM, TNAU, CBE	Production declined from 17.8 tons in 2017-18 to 4.5 tons in 2018-19. Efforts may be taken to increase the production
14	V60AS	Strengthening of Analytical and Advisory Unit	Dr.M.Maheswari, Prof.(ENS), Directorate of NRM, TNAU, CBE	NR & RE made for the VCS scheme and the other purposes may be segregated.
15	V60DV	Production and sale of seeds, seedlings, fodder and animals	Dr .R. Karthikeyan Assoc. Prof (Agron)	Only one PI and Co-PI Proposals for micro-irrigation and area expansion may be given
16	V60EG	Commercial Production of Quality Organic Manure from all Biodegradable wastes	Dr. S K. Natarajan AsSt Prof (Agronomy)	Proposals may be sent for automation

17	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)	Budget approval must be approved very year VCS may be continued Students role may be planned
18	V60CJ	Strengthening infrastructural facilities and updating the Botanic Gardens	Dr.M.Velmurugan, Asst.Prof.(Horti), HC&RI, TNAU, CBE	Action may be initiated to increase the visitors after renovating the botanical garden
19	V60AN	Mass production of ornamental and medicinal plants for commercial outlet	Dr.M.Velmurugan, Asst.Prof.(Horti), HC&RI, TNAU, CBE	Since the revolving fund scheme is in operation in the dept. with the same objectives of production and sale of ornamental plants, merge the VCS activities with the RF Scheme. Closure proposal of VCS project may be sent for approval
20	V60AY	Hybrid and varietal seed production of Millets	Dr. R .Ravikesavan Prof and Head, Millets	VCS may be continued
21	V60HB	Analytical Services for the Characterization of Nanoparticles	Dr.K.Raja, Asst. Prof., Directorate of NRM, TNAU, CBE	The scheme is progressing well and the Scheme may be continued List of analytical test conducted may be mentioned
22	V60HT	Commercial production Nematode antagonistic bio agents	Dr. N.Swarnakumari Asst Prof (Nemato)	VCS may be continued Production of liquid formulation may be increased
23	V60FT	Seed production in Oilseeds	Dr. R .Sasikala Asst Prof (PBG)	VCS may be continued
24	V60GH	Conservation of Plant Genetic Resources	Dr. V. Thiruvengadam Asst Prof (PBG)	VCS may be continued

25	V60BH	Sale of Toxicological data and Mass production of <i>Trichoderma viride</i>	Dr. A. Sudha Asst Prof (Path)	Revenue has increased VCS may be continued Can be considered as a entrepreneurship model unit
26	V60BF	Mushroom Cultivation Training and Input Supply	Dr. P. Latha Ast Prof (Path)	Revenue has declined – reasons may be indicated. Efforts may be taken to increase revenue
27	V60AB	Mass Production of different plant growth promoting <i>Pseudomonas</i> formulations	Dr. V. Sendhilvel Asst Prof (Path)	Revenue has increased VCS may be continued Can be considered as a entrepreneurship model unit
28	V60CP	Food Processing Business Incubator	Dr.G.Gurumeenakshi, Asso.Prof.(FSN), AEC&RI, TNAU, CBE	Proposal may be sent to DST funding for business incubator
29	V60EX	Food Quality Analysis	Dr.Z.John Kennedy, Prof.(Micro Bio.), AEC&RI, TNAU, CBE	The scheme is progressing well and the Scheme may be continued
30	V60FU	Seed production in Pulses	Dr.P.Jeyamani, Professor and Head, Dept of Pulses, TNAU, Coimbatore	VCS may be continued
31	V60CQ	Training and Consultancy on Remote Sensing and GIS Applications	Dr. K.P.Ragunath Asst Prof (SS&AC)	Reasons for drastic decline in revenue generation may be indicated IC has to be paid Total Revenue below Rs. One lakh attracts closure of scheme
32	V60FM	Testing of Seeds for Quality Parameters	Dr. R. Jerlin Prof and Head, SST	VCS may be continued

33	V60AZ	Soil Testing and Technology Advisory Centre	Dr.M.Gopalakrishnan, Asst.Prof.(SS&AC), Directorate of NRM, TNAU, CBE	NR & RE made for the VCS scheme and the other purposes may be segregated. Training on analytical techniques may be conducted
34	V60HE	Production of Designer Micronutrient Fertilizer Mixture for Crops	Dr.D.Jegadeeswari, Asso.Prof.(SS&AC), Directorate of NRM, TNAU, CBE	The production declined from 13.5 tons in 2015-16 to 8.8 tons in 2018-19 Efforts may be taken to increase the production
35	V60HO	Production and Supply of Nutriseed Packs to Farmers and Crop Production Units	Dr.M.Malarkodi, Asst.Prof.(SS&AC), Directorate of NRM, TNAU, CBE	Commercialization of technology may be attempted Efforts may be taken to increase the production of Nutri Seed packs
36	V60IT	Production and distribution of Water Soluble Fertilizers for Fertigation of Crops	Dr.R.K.Kaleeswari, Prof.(SS&AC), Directorate of NRM, TNAU, CBE	Production may be initiated at the earliest
37	V60HX	Frontier Analytical Soil Testing Laboratory	Dr.S.Meena, Prof.(SS&AC), Directorate of NRM, TNAU, CBE	Seed money balance may be paid Institutional Charges have to paid from 2017 onwards
38	V60BE	Mass Multiplication of Elite Coconut Varieties-	Dr.M.Mohanalakshmi, Asst.Prof.(Horti), HC&RI, TNAU, CBE	Production of seedlings declined from 23,000 in 2015-16 to about 11,000 in 2018-19. Efforts may be taken to increase the production. Price of seedlings may be fixed in comparison with private nurseries
39	V60HY	Imparting skill on organic inputs production and sale of organic inputs	Dr. R .Sunitha Asst Prof (ENS), DoSOA	VCS may be continued Institutional charges may be paid

40	V60CC	Digital Video Production on Agriculture in Compact Disc	Dr. M. Senthilkumar, Asst.Prof.(Agrl.Extn.), Directorate of Extension Education, TNAU, CBE	NR & RE made for the VCS scheme and the other purposes may be segregated. The training given to AIT students may be extended to students of other departments. An executive development programme for faculty from TNAU and other universities may be conducted on cost basis. List of available videos may be circulated to Deans of all Colleges to utilize the facility for teaching. The same videos may be produced in other languages also.
41	V60HR	Production sale of pork, Chevon and breed able kids	Dr.M.Thirunavukkarasu, Assistant Professor, Dept of Animal Husbandry, TNAU, Coimbatore	Only one PI and Co-PI VCS may be continued
42	V60IQ	VCS Operation and maintenance	Dr. S D Sivakumar Director (ABD) TNAU, Coimbatore	Scheme may be continued
43	V60EN	Bioinnoculant production and their quality control	Dr K Kumutha Prof and Head	IC may be paid Scheme may be continued
44	V60FS	Mass Production of <i>Arbuscular Micorrhizal</i> fungi and azolla	Dr R. Uma Sankareswari Asst Prof (Micro)	IC has to be paid in time This may be merged with V60EN
45	V60FW	Commercial seed production	Dr.S.Lakshmi Asst Prof	VCS may be continued
46	V60GP	Commercial production of large white Yorkshire Pig, poultry and goat rearing for small farmers	Dr. E. Subramanian Asst Prof (AGR)	Scheme may be continued

47	V60GM	Multiplication of forest and ornamental trees	Dr. M. Palanikumar Asst Prof (Horti)	This scheme may be merged with V60 AW IC has to be paid
48	V60AW	Multiplication of Fruit crops and Seed production of Vegetables	Dr. Beulah Assoc Prof (Horti)	VCS may be continued
49	V60BL	Production and training of mushroom spawn and organic biocides	Dr. N. Revathy Assoc Prof (Path)	VCS may be continued
50	V60EZ	Production of Coconut tonic	Dr. T.Sivakumar Assoc Prof (CRP)	VCS may be continued
51	V60EO	Soil Plant Analytical Advisory Centre	Dr. P.Christy Nirmala Mary Assoc Prof (SS & AC)	Scheme may be continued
52	V60CF	Compost Production through Vermi technology	Dr P. Kannan Asst Prof (SS&AC)	Revenue generation may be increased
53	V60IK	Analysis of Pesticide residue in harvested produce of farm gate, market sample, food material and nutrient analysis in soil	Dr.K. Premalatha Asst Prof(Ento0 AC &RI Mdu	Scheme may be continued
54	V60DD	Production and Sale of TNAU Coconut tonic	Dr.A.Senthil, Assistant Prof. (CRP)	Production disrupted
55	V60CX	Production of Foundation and Certified seed in Rice	Dr D Rajakumar Asst Prof (Agron)	Scheme may be continued
56	V60FA	Production of Truthfully labeled seeds in major vegetable crops	Dr. C. Ravindran Assoc Prof (Horti)	Continuous decline in production – reasons may be indicated Mismatch between IC and revenue generated in all four years
57	V60FR	Production and Sale of Beneficial Microbial Products for plant disease management and mushroom production	Dr .R .Kannan Prof and Head , Path	Only one PI and one Co-PI VCS may be continued Students activity may be examined

58	V60CY	Production and Sale of Bio inputs	Dr Jenerlin Prabina Assoc Prof (Micro)	May be continued Students role may be examined
59	V60HW	Breeder seed production of TNAU released Rice and Blackgram varieties suited for Thoothukudi and Tirunelveli districts	Dr. S.Saravanan Asst Prof ((PBG)	May be continued
60	V60EP	Developing Vermicompost production unit and conducting training on solid waste management through vermiculutre	Dr. S.Rathika Asst Prof (Agron)	Revenue generation may be increased
61	V60EV	Production of Biofertilizers for salt affected soils	Dr. M.Sundar Prof (Micro)	Efforts may be take for increasing production and revenue generation
62	V60IJ	Analytical and training services at Centre of Excellence in sustaining soil health	Dr. P.Janaki Assoc Prof (SS & AC)	Activities may be enhanced
63	V60GO	Mass production of biocontrol agents (<i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>)	Dr. P. T. Sharavanan Asst Prof (Path)	Students activity may be examined Scheme may be continued
64	V60HV	Production and sale of value added products	Dr.M.Marimuthu Assoc Prof (FSN)	Closure proposal not sent as per proceedings
65	V60HS	Beekeeping in Fallow Lands	Dr. S.Sheeba Asst Prof. (Ento)	Production may be increased.
66	V60II	Mushroom spawn production and training	Dr. K.Chitra Asst Prof (Path)	Production may initiated at the earliest Students activity may be examined
67	V60EE	Production and supply of teak and other tree seedlings	Dr. Alex Albert Asst Prof (SST)	VCS may be continued
68	V60FD	Manufacturing and marketing of agricultural machineries	Dr P.K. Padmanathan Ast Prof (FMP)	VCS may be continued

69	V60BJ	Production and supply of seedlings of <i>Jatropha curcas</i> and other tree seedlings	Dr.P. Rajendran Asso.Prof. (Forestry), FC&RI, Mettupalayam	Product wise production details are to be submitted to the Director (ABD), TNAU, Coimbatore through the Dean (Forestry), Mettupalayam Area of distribution of inputs must be maintained
70	V60ES	Bio resources Development and Capacity Building	Dr. Thangamani Asso. Prof. (Agrl.Micro), FC&RI, Mettupalayam	CEO of Mettupalayam Agro Forestry Business Incubation Forum may be contacted for selling bio fertilizers Revenue generation is to be increased for continuation in coming years
71	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	The VCS may be continued This venture model can be used for Students experiential learning course
72	V60HF	Production and supply of Industrial Wood Species	Dr.P.S.Devanand Asst. Prof.(PB&G), FC&RI, Mettupalayam	Production activity must be carried for every year Review on the activities of this VCS must be done by the Dean(Forestry), Mettupalayam
73	V60IA	Elite planting stock production for commercial and Urban utility	Dr. M. Sivapraksh Asst. Prof. (Forestry), FC&RI, Mettupalayam	Possibility of combining Venture Capital Schemes involved in seedling production in FC & RI, Mettupalayam into one may be seen and the same may be proposed through the Dean (Forestry) to the Director (ABD), TNAU, Coimbatore
74	V60DU	Strengthening commercial food processing training programme including consultancy to NGO's Government, private institution and Corporate	Dr.S.Kamalasundari Asst.Prof. Dept of FS&N, HSC&RI, Madurai	All training programmes in CSC & RI may be merged

75	V60HJ	Development of millet based bakery foods – an approach to capacity building of entrepreneurs and unemployed youth	Dr. S. Kamalasundari Asst Prof (FSN)	Scheme may be continued
76	V60GI	Imparting skill training to the SHG, Entrepreneurs on processed food products unit renting and publication	Dr L.Nirmala Asst Prof (Extn)	All training programmes in CSC & RI may be merged
77	V60IB	Value addition of fruits and vegetables and empowering rural people through training	Dr. V.Veeranan Arun Giridhari Asst Prof (FSN)	Only one PI and Co-PI Revenue may be increased
78	V60GF	Production of Ornamental and Medicinal Plants	Dr. P.ArulArasu Asst Prof (Horti)	Niche area Production may be increased
79	V60AJ	Production of Quality Fruit Plants and Agro Forestry Seedlings	Dr. M. Kavino Asst Prof (Horti)	IC may be paid Proposal for expansion may be sent Students role may be examined
80	V60GC	Strengthening Commercial Food Processing, Training programme including production of value added products	Dr. V.Vani Asst Prof (Home Science)	One PI and one Co-PI only Revenue generation consistently lower than Rs 25, 000 PHBIF may be involved in training and marketing Will be considered for one more year
81	V60GL	Production of high yielding seed and plant materials of Spices and Coconut	Dr.R.Chitra Asst Prof (Horti)	Cross booking MIDH May be continued
82	V60FB	Production and sale of Coconut tonic	Dr. D Janaki Asst Prof (SS&AC)	May be continued Students activity may be examined

83	V60DN	Production of Biofertilizers, Bio control agents for fruit, vegetables and plantation crop	Dr. J. Kannan Prof ENS	Profitability may be examined. One PI and one CoPI may be considered. There is greater demand for liquid biofertilizers
84	V60AC	Production of TFL seeds in vegetable crops	Dr. P .Geetharani Prof (SS &T)	RF also existing with same objectives
85	V60IP	Establishment of commercial Nursery centre for Horticultural crops	Dr. K.Kumanan Asst Prof (Horti)	May be continued Students may be involved
86	V60IN	Establishment of Commercial Fodder Block and Poultry Production Centre	Dr.V.Arunkumar, Asst. Prof. (SS&AC), AC & RI, Vazhavachanur	The institutional charges may be paid
87	V60IS	Commercial Production of Bioinoculants for Cauvery Delta Region	Dr. S. Mathiyazhagan Asst Prof (Path)	Production may be initiated
88	V60AT	Clonal propagation of BSR-1 Amla for commercial outlet	Dr. P. Hemalatha Asst. Prof. (Hort.), ARS, Bhavanisagar	As the objective of the VCS is similar to the revolving fund scheme (Horticulture), this VCS may be merged with revolving fund scheme (Horticulture) Closure proposal may be sent to the Director (ABD), TNAU, Coimbatore after obtaining proper approval from the University.
89	V60BI	Production of foundation seeds of popular rice varieties through System of Rice Intensification	Dr. R. Vigneshwari Asst. Prof. (SST), ARS, Bhavanisagar	The VCS may be continued Revenue generation is to be increased for continuation in coming years
90	V60DM	Mass Production of <i>Trichoderma viride</i> , <i>Pseudomonas fluorescens</i> and <i>Pleurotus spp</i>	Dr. Sangeetha Panicker Prof. (Pl. Patho.), ARS, Bhavanisagar	Revenue generation is very low Sales volume may be increased by getting help of CEO's of Business Incubation centers in TNAU

91	V60EB	Commercial production and distribution of Banana suckers, fruits and leaves	Dr. P. Hemalatha Asst. Prof. (Hort.), ARS, Bhavanisagar	As the objective of the VCS is similar to the revolving fund scheme (Horticulture), this VCS may be merged with revolving fund scheme (Horticulture) Closure proposal may be sent to the Director (ABD), TNAU, Coimbatore after obtaining proper approval from the University.
92	V60ED	Commercial production and distribution of vermicompost	Dr. D. Muthumanickam Prof. (SS&AC), ARS, Bhavanisagar	Total Revenue of the year must be calculated by considering the actual amount of receipt upto 31 st of March. Area of distribution of Inputs may be informed to the Director (ABD), TNAU through Professor and Head, ARS, Bhavanisagar The VCS may be continued
93	V60EM	Production and distribution of popular varieties/hybrids coconut seedlings	Dr. Sheela Venugopal Asst. Prof. (Agrl.Ento.), ARS, Bhavanisagar	Sales Volume and Revenue generation may be improved by getting help of incubation centres and FC&RI, Mettupalayam
94	V60IG	Commercial production of <i>Beauveria</i> and <i>Metarhizium</i>	Dr. Sheela Venugopal Asst. Prof. (Agrl.Ento.), ARS, Bhavanisagar	Production activities may be accelerated for distribution of inputs to the farmers thereby making revenue generation
95	V60BO	Production and distribution of Coconut seedlings fruits and ornamental plants, TFL seeds of paddy and vegetables	Dr. M.Tamil Selvan Asst Prof (Horti)	Production may be increased
96	V60FN	Commercial production of vermicompost and Azolla and elite planting materials	Dr. G. Preetha Asst Prof (Ento)	Revenue may be increased

97	V60BQ	Commercial production of seedlings Mushroom spawn and <i>Trichoderma viride</i>	Dr. D. Dinakaran Prof. & Head, ARS, Virinjipuram	VCS may be continued
98	V60IM	Commercial Production of Bio fertilizer and wildboar repellent	Dr. P. Thilagam Asst. Prof (Ag. Ento.) ARS ,Virinjipuram	Production may be increased
99	V60DZ	Vermicomposting of coconut fronds and wastes	Dr.C.Sudhalakshmi, Asst. Prof (Soil Sci.), CRS, Aliyarnagar	Proposal for enhanced sale price may be sent based on cost of production Increase number of trainings to the farmers A model unit may be developed Recurring expenditure is too low but the production is high. This may be verified and indicate whether the expenditure is met from other schemes
100	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	For Packing the bio control agents, the permitted type of polythene bags can be used
101	V60CR	Production and Distribution of Coconut Seedlings	Dr.S.Rani, Asst. Prof. (Agro.), CRS, Aliyarnagar	Increase the Production of seedlings
102	V60GQ	Production of <i>Bracon brevicornis</i>	Dr.M.Alagar, Asst. Prof. (Agrl. Ento.), CRS, Aliyarnagar	For Packing the bio control agents, the permitted type of polythene bags can be used Production may be increased
103	V60HZ	Soil Fertility Assessment and Advisory Centre (SOFAAC)	Dr.C.Sudhalakshmi, Asst. Prof (Soil Sci.), CRS, Aliyarnagar	Proposal may be sent to funding agencies for getting Atomic Absorption facilities for micro nutrient analysis
104	V60FF	Production and distribution of <i>Trichoderma viride</i> and <i>pseudomonas fleuroscens</i>	Dr. M.Surulirajan Asst Prof (Path)	Reasons for continuous drastic reduction in production may be given Action plan to increasing production

105	V60BX	Production and distribution of quality coconut seedlings	Dt. K.S.Vijay Selvaraj Asst Prof (Horti)	RF also exists IC to be paid in time
106	V60CK	Production and distribution of TNAU coconut tonic	Dr. A Selva Rani Asst Prof	Production may be increased considering demand and Crop Physiologist may be involved
107	V60GJ	Mass production of biocontrol Agents	Dr. K.Sakthivel Asst Prof (PBG)	No activity / revenue generation for the last two years
108	V60HU	Establishment and operation of bakery production unit	Dr.S.Jesupriya Poornakala Asst Prof.(FSN) ARS, Chettinad	There is no revenue generation for the last two years Scope for improvement is also less. Hence VCS may be closed
109	V60GT	Production of quality material in ornamentals commercial flower crop aquatic ornamental and inputs for flower crops	Dr.J.Prem Joshua Floriculture Research Station, Thoivalai	Revenue generation must be increased
110	V60HQ	Mass multiplication of rootstocks and production of grapes varieties	Dr. A. Subbiah Asst Prof (Horti)	May be continued
111	V60BU	Production of elite propagation materials of temperate crops and essential oils	Dr.I.Muthuvel Assoc. Prof. and Head	Revenue generation may be improved Scheme may be continued
112	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	Seedling production may be merged with RF scheme. NR & RE made for the VCS scheme and the other purposes may be segregated.
113	V60CH	Production of clonal planting material of black pepper, tree	Dr. S.T.Bini Sundar, Assistant Professor	Revenue generation must be improved

		spices and cashew	(Horti.), HRS, TNAU, Pechiparai	
114	V60DS	Commercial Production of Honey and Vermicompost	Dr. T. Senthilkumar Asst Professor (Agron.), HRS, TNAU, Pechiparai	Revenue generation must be improved
115	V60BG	Production of Elite Planting materials of Horticulture Crops	Dr. T. Thangaselvabai Prof & Head, HRS	VCS may be continued
116	V60BA	Production of biocontrol agents	Dr. T. Thangaselvabai Prof & Head, HRS	VCS may be continued Production may be increased
117	V60AH	Mass production of Horticultural plants	Dr.S.Nanthakumar HRS,Yercaud	Mention the crops and varieties in which planting materials are produced Institutional charges for 2018-19 may be paid
118	V60AG	Mass production of biocontrol agents viz., <i>Pseudomonas</i> and <i>Trichoderma</i>	Dr.S.Nanthakumar HRS,Yercaud	Production may be increased
119	V60AL	Mass production of earthworms, vermicompost and VAM	Dr.S.Nanthakumar HRS,Yercaud	Production may be increased Revenue of 2018-19 may be checked
120	V60HC	Commercial production of biocontrol agents and biofertilizers	Dr. P. Ahiladevi Asst Prof (Path)	Revenue generation may be improved
121	V60HP	Production of Foundation and Certified Crops in Agricultural Crops	Dr. N. Manivannan Prof and Head, NPRC	RF with same objectives, VCS may be closed
122	V60DK	Production of Vermicompost utilizing farm waste	Dr. R .Durai Singh	Production of Vermicompost and proposal for production of Biochar may be sent
123	V60DL	Commercial production of graft, budded plants semi-arid crops and drought	Dr. K.R.Rajadurai Asst Prof (Horti)	May be continued. Scope for expansion

124	V60DB	Mass Production of mushroom spawn and biocontrol agents	Dr. P. Mareeswari Asst Prof (Path)	Revenue may be increased
125	V60DC	Popularization of Telicherry goats among farmers of Virudhanagr dt.	Dr. J. Rajkumar Asst Prof (CRP)	May be continued
126	V60AM	Mass Production of Bio-Inoculants	Dr. N. Indra Asst.Professor(Pl.Patho.) Professor, RRS, Paiyur	Revenue may be increased VCS may be continued
127	V60BY	Vermicompost Production	Dr.M.Vijayakumar Asst. Prof. (SS&AC) RRS, Paiyur	VCS may be continued
128	V60BD	Seed production of rice, pulses, oil seeds, vegetables and flowering ornamentals	Dr.A.Sheeba, Asst. Prof. (PBG), RRS, Tirur	Title may be revised as "Quality seed production in rice" Proposals may be prepared for construction of godown
129	V60DG	VCS on Seed Cane	Dr .L.Chithra Prof and Head, SRS	Production of jiggery may be initiated Title does not match with activity
130	V60DX	Production of hybrid castor seed under contract farming system	Dr.P.Arutchenthil, Asso. Prof. (PBG), TCRS, Yethapur	Possibilities of Commercialization of hybrid may be explored
131	V60CE	Production of CO2 and CO3 cassava seed material	Dr.P.S.Kavitha, Asst. Prof. (Hort.), TCRS, Yethapur	Production may be increased Name of the project may be changed as "Production of Cassava planting material"
132	V60BC	Production of TNAU coconut tonic and castor gold for North western zone of Tamil Nadu	Dr.M.K.Kalarani, Prof. (Crop Phy.), TCRS,Yethapur	Revive production of coconut tonic and castor gold at TCRS, Yethapur Application of above products may be popularized through mass media, zonal workshop etc.. Availability of coconut tonic and castor gold may be popularized through the website

133	V60CU	Production of biofertilizers for Cauvery Delta Zone	Dr. M. Jaya Bhatarhi Asst RPof (Micro)	Revenue generation may be increased
134	V60HN	TFL Seed Production of Paddy and Blackgram Seeds	Dr. K.Subrahmaniyan Prof (Agron)	Revenue generation declined VCS may be continued
135	V60ID	Production of commercial formulations of bio control agents, mushroom spawn and tree killer	Dr. R. Thilagavathi Asst Prof (Path)	VCS may be continued
136	C2V60AI	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	VCS may be continued
137	P3V60AO	Production of Elite Plants and Quality seeds of Horticultural Crops	Dr.K.Nageswari, Prof. &Head , VRS, Palur	Production may be increased Name of the crops and varieties may be given
138	P3V60AP	Production of truthfully labelled seeds of Rice and Pulses	Dr.K.Nageswari, Prof. & Head, VRS,Palur	Production may be increased Name of the seed varieties may be indicated
139	P3V60ER	Production of High yielding and Quality Jack Grafted plants	Dr.K.Senthamizh, Asst. Prof. (Nem.), VRS,Palur	Scheme is progressing well and the production may be increased
140	V60IE	Seed production in Pulses and Seed Cane	Dr. R.Sudhagar Assoc. Professor (PB&G) Sugarcane Research Station Melalathur – 635 806	VCS may be continued

141	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	Production may be enhanced Institutional charges may be paid
142	V60IH	Production of sugarcane seed cane/ chip budded seedlings for enhanced productivity of sugarcane	Dr R Anitha Assistant Professor (CRP) Sugarcane Research Station Cuddalore	VCS may be continued
143	V60IL	Production of Seedlings/buddlings in acid lime	Dr.Nainar, Professor and Head Citrus Research Station, Sankarankovil	Production work may be started to generate revenue
144	V60CN	TFL Seed Production in Chillies – Variety K1	Dr.S.Manoharan Asst Prof (Agron)	Revenue generation has to be increased-proposal may be sent accordingly in 2019 - 20
145	V60IR	Quality seed production of rice and black gram varieties suitable for southern districts of Tamil Nadu	Dr.S.Arumugachamy, Prof. & Head, RRS, Ambasamudram	The scheme may be continued

F. Action Plan 2019-20

- The bank interest amount may be retained in the **Dept Account itself**
- Every year the budget including recurring & non recurring contingencies has to be got approved from the University, since VCS budget is sanctioned by FMC
- The expenditure has to be strictly met within the approved budget Estimate
- Under extraordinary condition, revised budget estimate for recurring expenditure alone may be submitted, within the overall recurring expenditure sanctioned, if it affects the production operation of VCS.
- Financial irregularities if any, action will be taken against concerned officials
- Sale price plus GST should be followed for billing.
- Every year, Scheme continuation/ extension proposal must be sent for university approval through the Director (ABD).
- Honorarium is not permitted for the scientists organizing the trainings including the Principal investigator of the scheme.
- Only resource persons from outside TNAU are to be paid with the honorarium or TA as per University norms.
- VCS PI and Co PI can avail TA and DA for attending the VCS related Meetings
- TA and DA and Registration fees may be permitted upto Rs. 10,000/- per scientist if annual revenue generated from VCS is more than Rs. 2.00 lakhs in previous year
- Role and responsibility of PI and Co-PI in VCS must be listed clearly.
- VCS which with less than Rupees **one lakh** of revenue generation in consecutive two years will be recommended for closure or to be merged with other VCS, if any, in operation.
- Best performing VCS should be awarded and recognized during Foundation Day every year. A committee can be constituted under DABD to frame the guidelines for the selection of best performing VCS and it can be placed in the ensuing TLM.
- Non-performing VCS can be closed as per guidelines of the committee. VCS which were recommended for closure should send closure report as per the norms of the University at the earliest.

- VCS with similar objectives should be merged with other VCS operated at that centre based on the approval of the committee.
- Non-performing VCS scheme which has infrastructure should be utilized effectively for remunerative purpose.
- Financial provision of Rs.80,000/ was allotted in the budget 2018-19 of the VCS – “VC 60 IQ Operation and Maintenance” for software development in order to monitor the activities of nearly 150 VCS schemes operating in TNAU. The software features include general content management, every month entry on recurring and non-recurring expenditure incurred, production, sales, revenue generated and assets created etc.,. The PI and Co-PI will make entry of the data at their Colleges / Directorates / Research stations. The performance reports given below will be generated at the Directorate of Agribusiness Development.
 1. Station wise monthly as well as yearly input production details
 2. Input wise production and sales
 3. Input wise University level production and sales
 4. Provision to generate graph and diagram
 5. Performance
 - A. Performance over a period of time
 - B. Input wise across station
 - C. Profit and loss analysis
 6. Budget allocation and expenditure report
 7. GST management
 8. Monthly work done by PI and Co-PI
 9. Details on Institutional Charges payment
 10. Details on seed money repayment
 11. Details on non-recurring purchases

In this connection, estimate for developing the software is about Rs. 4,00,000/- and the annual maintenance of software will be Rs 20,000/-. The amount may be allocated as a small percentage of revenue generation of VCS operating in TNAU which will support for better monitoring, maintenance and operational assessment of the VCSs.

- Administration and Coordination of all Production Oriented Projects (VCS and RF) shall be with DABD, while the technical control will be under the respective Technical Directors.
- All the expenses related to VCS must be met from respective VCS funds only.
- The proposal for TA and DA should be mentioned in the VCS extension and budget proposal sent every year for approval.
- The centers having VCS with training objectives especially ITC at Chennai should generate more revenue.

- Every year Local Fund Audit (LFA) of respective VCS has to be done and the report communicated to DABD.
- One day training on GST to all scientists involved in VCS and revolving fund projects (RF) may be organized.
- The remaining 75 per cent amount may be utilized for the next year for proposing budget for the year and for meeting other expenditures with proper permission from the university.

REVOLVING FUND

Seed Centre

- Considering the demand of castor seeds, possibility of producing hybrid seeds at ARS, Bhavanisagar and Vaigaidam may be explored.
- In ARS Vaigaidam, the uncultivated area of about 40 acres must be brought under cultivation.
- Strategies may be worked out to enhance the seed production to meet out the state seed requirement.
- According to the enhanced target and achievement in seed production, the infrastructure facilities should also be improved in all the seed production centres.
- Seed production under Venture capital and Revolving fund schemes may be taken up in farmer's participatory mode wherever possible.
- In horticultural crops, the quality of planting materials should be ensured during production and supply.
- The turmeric seedlings may be multiplied through portray nursery technique to reduce the cost of seed materials.
- Infrastructure facilities viz., threshing floor for ARS, Bhavanisagar and seed storage godown for ARS, Vaigaidam may be strengthened by utilizing the profit earned from Revolving fund schemes.

Horticulture

List of projects – Revolving fund scheme				
Sl. No.	Scheme Code and Name of the scheme	Name & Designation of the PI	Station	Remarks
1.	C 31 LM Vegetable seed production on contract basis under ICAR – RF	Prof. & Head Dept. of Vegetable crops, HC&RI, Coimbatore	Department of Vegetable Crops, TNAU, Coimbatore	The project may be continued

2.	Revolving Fund Scheme - 'Floriculture Nursery'	Dr. M. Velmurugan Assistant Professor (Hort.)	Department of Floriculture and Landscaping, TNAU, Coimbatore	The Project may be merged with VCS. Necessary proposals may be sent to close the projects
3.	Breeder seed production in vegetable crops	Dr. P. Geetharani Professor (SST)	Department of Vegetable Crops, TNAU, Periyakulam	There are three projects in Dept. of Vegetable crops, HC&RI, Coimbatore with the same objective. (2 under RF and one under VCS). Hence, three projects may be merged and continued as single project.
4.	3010 – X Plan - Production of elite plants and quality seeds of horticultural crops	Dr. I. Muthuvel Assoc. Prof. & Head	HRS, Kodaikanal	The VCS and RF operated under HRS, Kodaikanal may be merged and continued and a single project. Necessary proposals may be sent for closure of one project
5.	RF/HCRI/OTY/Hort/2017/R004 Revolving Fund for the Seed production in horticultural crops at HRS, Ooty	Dr. Keiser Lourdusamy Assoc. Prof. & Head	HRS, Ooty	Project may be continued

6.	ICAR Revolving fund Mega seed production in Horticultural Crops	Dr. C. Rajamanickam Asst. Prof. (Hort.)	Dept. of Horticulture, AC&RI, Madurai	Totally there are three projects in Dept. of Horticulture, Madurai with the same objectives. Hence, all the three projects may be merged as single project mad continued
7.	ICAR Revolving Fund for Elite plants	Dr. C. Rajamanickam Asst. Prof. (Hort.)	Dept. of Horticulture, AC&RI, Madurai	
8.	Revolving Fund scheme on Horticulture	Dr. S. Srividhya Asst. Prof. (Hort.)	RRS, Paiyur	The project may be continued
9.	RF/ARS-BSR/003 Revolving Fund scheme on horticultural crops	Dr. P. Hemalatha Asst. Prof. (Hort.)	ARS, Bhavanisagar	The project may be continued
10.	ICAR-MSP/CPBG/VGD/2015/D001 Mega Seed Project Revolving Fund – Seed production in agricultural crops under revolving fund (Horticultural crops)	Dr. T. L. Preethi Asst. Prof. (Hort.)	ARS, Vaigaidam	The project may be continued
11.	RF/SRS-SGM/001 ICAR-Mega Seed Project- Revolving Fund scheme on 'Seed Production in Horticultural crops'	Dr. R. Nageswari Asst. Prof. (Agronomy)	SRS, Sirugamani	The project may be continued
12.	Revolving Fund - Horticulture Revolving Fund - Regional Nursery ICAR Mega Seed Production	Dr. S. Velmurugan Asst. Prof. (Hort.)	RRS, Vridhachalam	The project may be continued. New number may be obtained

Externally funded scheme (Horticulture)

Sl. No.	Scheme Code	Name of the scheme	Name & Designation of PI	Station	Remarks
1.	GOI-DASA/HCRI/PKM/SPC/2015/D001	Mission for Integrated Development of Horticulture seed and Planting Material production distribution and transfer of technology in spices	Dr. P. Jansirani Prof. & Head Dept. of Spices & Pl. Crops HC&RI, Periyakulam.	Nodal Centre: Department of Spices and Plantation Crops, Periyakulam	The project may be continued
2.	CDB-RF/HCRI/ALR/COC/2015/D005. Production and distribution of quality coconut seedlings	Coconut Development Board	Dr. V. Sivakumar Asst. Prof. (Hort.)	Coconut Research Station, Aliyarnagar	The project may be continued

CPBG

Sl. No.	Project No & Title	Project Leader	Designation & 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	Asst. Prof.(PB&G) ARS, Bhavanisagar	Breeder seed targets may be achieved without any shortfall and project may be continued
		Dr. B. Meenakumari,	Asst. Prof. (PB&G) ARS, Bhavanisagar	
2.	ICAR-RF/ARS,VGD/2019/D002. 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	Dr.S.Juliet Hepziba	Prof (PB&G) & Head, ARS, Vaigai Dam	Breeder seeds production of groundnut may be concentrated and project may be continued
		Dr.M.Jayarama-chandran	Asst. Prof (PBG), ARS, Vaigai Dam 27.09.2018 onwards	

3.	TNAU- RF/CPBG/VRI/2016/D001 Nucleus and Breeder Seed Production in Groundnut	Dr. A. Mothilal	Prof. (PB&G) RRS, Vriddhachalam	Project may be continued
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.(PB&G) ARS, Pattukkottai	Project may be continued

DNRM

The review remarks of the 2nd Scientists meet on Production Oriented Projects 2019 for **Revolving Fund schemes** conducted on 08.05.2019 operating in the Directorate of Natural Resource Management are furnished as below

Sl. No	Project Number and Title	Name and Designation of the Project leader	Duration	Remarks
Department of Soil Science and Agricultural Chemistry				
01	TNAU- RF/NRM/CBE/SSAC/2016/ R005 TNAU Mineral Water Production Unit	Dr. N. Chandra Sekaran, Professor (SS&AC) Dept. of SS&AC, DNRM, TNAU, Coimbatore	April 2018 to March 2019	To be continued
02	TNAU- RF/NRM/CBE/SSAC/201 6/R006 Use and Maintenance of TNAU Golden Jubilee Hall at Coimbatore	Dr. J. Balamurugan, Asst. Professor (SS&AC), Dept. of SS&AC, DNRM, TNAU, Coimbatore	April 2018 to March 2019	To be continued

DEE

TNAU Revolving Fund for the University Press

1. The University Printing Press may be modernized to cater the printing needs of the Colleges/Directorates/Departments/Research Stations/KVKs.
2. If budget is available, proposal for new and modern printing machines may be submitted.
3. Purchase proposal for Multi-Colour Laser Printing machine may be submitted with detailed report on the necessity and utility.
4. Purchase of the state-of-the-art Paper cutting machine form Hindustan Machine Tools Ltd may be speed-up.
5. Benefit-cost may be worked out for printing the '*Valarum Vellanmai*' at TNAU Press itself.

ACTION PLAN 2019-20 for RFSs

1. A committee may be formed with DABD, Director of Research, Dean (Horticulture), DNRM, Director (Seed Centre) & DCPBG to prepare Guidelines for Revolving Fund schemes based on VCS.
2. If in any Stations / Departments / Colleges, Venture Capital Schemes and Revolving Fund schemes are functioning with same objectives in the same unit the VCS may be closed.

IV. Closing Remarks & Way Forward

Vice Chancellor remarks

- Sale price should be included with GST for VCS/RF products, Seeds, Planting Materials etc.
- GST to be filed on 10th day of every month and the report to be sent to the Comptroller, TNAU, Coimbatore
- Institute of Agriculture, Kumulur and NPRC, Vamban having Diploma courses can propose VCS.
- Centralized Production of quality crop tonics may be taken up through a identified person (P&H, Crop Physiology)
- Modalities may be worked out for sale of products to the companies in consultation with Director, ABD
- Vermicompost unit at Central Farm Unit, Dept. of Agronomy should be mechanised.
- Team of University Officers, Director (ABD), Director of Research, Director (CPBG) and Dean (Horticulture), Coimbatore can workout the modalities for the 15% of the revenue generated in VCS/RF schemes to be given to University.

Director of Research

Way forward

- Augment Revenues through VCS
- Expand activities in novel inputs
- Close unproductive VCS
- Organize regular Business Meets
- Infuse Consultancy Services

Comptroller Suggestions

- Since the sale of products from VCS, RF covers GST, entire details should be disclosed (All project leaders of VCS/RF)
- Applicable GST should be added to the budget proposal of service oriented activities and projects

IV PARTICIPANTS

CONTACT DETAILS OF SCIENTISTS PARTICIPATED IN THE 2nd Annual Scientists Meet, 2019

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24	Dr.P.Jeyamani, Professor&Head Pulses, TNAU, CBE	jeyamani1108@hotmail.co m	94423 42443

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42	Dr.P.Christy Nirmala Mary Soil & Environmental Sciences, AC&RI, Madurai	chrismary@rediffmail.	94430 77685
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48	Dr.P.Janaki, Asso.Prof.(SS&AC) Soil Science & Agricultural Chemistry, ADAC&RI, Trichy	janaki.p@tnau.ac.in	94439 31600
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50	Dr.M.Marimuthu, Asso.Prof. Food Processing Incubation cum Training Centre, Trichy	-	-
51	Dr.S.Sheeba Joyce Roseleen, Asst.Prof. (Ag.Ento.) Agricultural Entomology, ADAC&RI, Trichy	keemsheeba@gmail.com	99433 18301
52	Dr.P.K.Padmanathan, Asst.Prof.(Farm.Mach.) Farm Machinery & Bio energy, AEC&RI, Kumulur	pathuphd@gmail.com	97888 20438
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54	Dr.G.Thangamani, Asst.Prof.(Ag.Micro.) Forest Products & Utilization, FC&RI, Mettupalayam	rukkugt@gmail.com	82203 02839
55	Dr.R.Ravi, Asst.Prof.(For.) Forest Products & Utilization, FC&RI, Mettupalayam	ravig2004@yahoo.co.in	99421 98200
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59	Dr.K.Shanthi, Asso.Prof. Human Development, CSC&RI, Madurai	shanthifsn@rediffmail.com	-
60	Dr.C.Ravindran Fruit Crops, HC&RI, Periyakulam	ravi.vini@gmail.com	94870 20262
61	Dr.P.Jhansirani, Professor & Head Spices & Plantation Crops, HC&RI, Periyakulam	spicepkm@tnau.ac.in	99944 25720
62	Dr.K.Manonmani, Asst.Prof.(Plant Patho.) Spices & Plantation Crops, HC&RI, Periyakulam	manopath2009@gmail.com	94860 13184
63	Dr.M.Kavino Fruit Crops, HC&RI, Periyakulam	kavino.m@tnau.ac.in	94864 38422
64	Dr.P.Geetharani, (SS&T) Vegetable Crops, HC&RI, Periyakulam	geethahort@gmail.com	94424 18355
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68	Dr.S.Mathiyazhagan, Asst.Prof.(Pl.Patho.) AC&RI, Eachangkottai	mathitnau97@gmail.com	99445 20544
69	Dr.Sangeetha Panicker, Prof.(Pl.Patho.) ARS, Bhavanisagar	sangeetha_murali@hotmail.com	99408 71944
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83	Dr.A.Subbiah GRS, theni	-	-
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135	Dr.P.Parasuraman, Professor & Head CEM, Athiyandal	-	-
136	Dr.K.Parameswari, Asst.Prof.(SST) CEM, Athiyandal	-	-
137	Dr.J.Renugadevi, Professor(SST) CEM, Athiyandal	-	-
138	Dr.G.Mani, Asst.Prof.(SST) ARS, Vaigaidam	-	-
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142	Dr.K.Ananthi KVK, Madurai	-	-
143	Dr.Noorjehan A.K.A.Hanif, Programme Co-ordinator KVK, Sirugamani	-	-

144	Dr.V.Vijayageetha, Asst.Prof.(SST) ORS, Tindivanam	-	-
145	Dr.S.Karthikeyan, Asst.Prof.(Hort.) HRS, Ooty	-	-
146	Dr.R.Santhi, Director(NRM) TNAU, Coimbatore	-	-
147	Dr.S.Geetha, Director(CPBG) TNAU, Coimbatore	-	-
148	Dr.S.Sundareswaran, Director(Seed Centre) TNAU, Coimbatore	-	-
149	Dr.K.Rajamani, Professor & Head Floriculture & Landscaping, TNAU, CBE	-	-
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152	Dr.K.R.Ashok, Director (Cards) TNAU, Coimbatore	-	-
153	Dr.Pugalendhi, Dean(Engg.) TNAU, Coimbatore	-	-
154	Dr.S.Paneerselvam, Director(WTC) TNAU, Coimbatore	-	-
155	Dr.N.Sathiah, Professor & Head(DAE) TNAU, Coimbatore	-	-
156	Dr.S.Raguraman, Professor(Press) TNAU, Coimbatore	-	-
157	Dr.K.Valliappan, Professor & Head(ENS) TNAU, Coimbatore	-	-

158	Dr.N.Maragathaal, Professor & Head(VAS) TNAU, Coimbatore	-	-
159	Dr.V.Geethalakshmi, Director(Crop Management) TNAU, Coimbatore	-	-
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162	Dr.Prabakar, Dirctor(CPPS) TNAU, Coimbatore	-	-
163	Dr.S.Mohankumar, Director(CPMB) TNAU, Coimbatore	-	-
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165	Dr.G.Hemalatha, Professor & Head(FSN) CSC&RI, Madurai	-	-
166	Dr.G.Sridevi, Asst.Prof.(SS&AC) AC&RI, Madurai	-	-
167	Dr.P.Kannan, Asst.Prof.(SST) TNAU, Coimbatore	-	-
168	Dr.K.Ganesan, Asst.Prof.(Ento.) TNAU, Coimbatore	-	-
169	Dr.N.Swarnakumari, Asst.Prof.(Nem) TNAU, Coimbatore	-	-
170	Dr.G.Jothi, Asso.Prof.(NEM) TNAU, Coimbatore	-	-
171	Dr.V.Balasubramanian, Prpf.(Entomology) TNAU, Coimbatore	-	-
172	Dr.M.Muthamilan, Prof.&Head, TNAU, Coimbatore	-	-

173	Dr.T.Senthilkumar, Asst.Prof. HRS, Pechiparai	-	-
174	Dr.R.Anandham, Asst.Prof.(Agro.) TNAU, Coimbatore	-	-
175	Dr.D.Muthumanickam, Professor(SS&AC) ARS, Bhavanisagar	-	-
176	Dr.A.Christopher Lourdraj, Professor & Head Training Division, TNAU, Coimbatore	-	-
177	Dr.C.R.Chinnamuthu, Professor & Head TNAU, Coimbatore	-	-
178	Dr.A.Nirmalakumari, Professor CEM, Athiyandal	-	-
179	Dr.P.Arul Arasu, Asst.Prof.(Hort.) HC&RI, Periyakulam	-	-
180	Dr.K.N.Ganesan, Professor(PBG) TNAU, Coimbatore	-	-

V. Annexure

List of Projects & its activities

Station-wise split up details of VCS

The list of 145 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	Soil and water samples
	Dr. P.A. Saravanan		V60EJ	Beekeeping and sale of honey
	Dr. S.Jeyarajan Nelson, Prof. (Agrl. Ent.)		V60HM	<i>Trichograma, Acerophagus and Bracon</i>
	Dr.N.Chitra Asso.Prof		V60IO	Insectoscope and Crystal stand
2.	Agricultural Microbiology Dr. V. Gomathi, Professor and Head	2	V60HI	Analytical Service
	Dr.U.Sivakumar, Professor (Ag. Micro)		V60IC	Analytical service
3.	Bio energy Dr.S.Pugalendhi, Professor and Head	2	V60HK	Consultancy
			V60HL	Analytical consultancy
4.	Controller of Examinations Dr.K.Soorianathasundaram, CoE	1	V60BS	Service- students
5.	Crop physiology Dr.P.Jeyakumar, Professor and Head	1	V60AA	TNAU Coconut Tonic
6.	Dean (Agri) – Dept. of Physical Education <i>Mr. Raghavan, Physical Education, Director</i>	2	V60EH & V60ET	Service - students
7.	Environment Sciences Dr.P.Kalaiselvi, Asst. Professor (ENS)	2	V60HG	TNAU Bio-mineralizer

	Dr. M. Maheswari, Professor (Env. Sci.)		V60AS	Soil, water, compost and waste water samples
8.	Farm Management Dr. R. Karthikeyan, Assoc. Prof. (Agron.)	2	V60DV	Black gram and green manure
	Dr.S.K.Natarajan, Asst. Prof. (Agron.)		V60EG	Vermicompost
9.	Forage Crops Dr. S.D.Sivakumar, Assoc. Prof. (Agron.)	1	V60AE	Cumbu Napier hybrid grass
10.	Floriculture and Landscaping Dr. M.Velmurugan, Asst.Prof.(Hort.)	2	V60CJ	Sale of entry tickets for students, public and for using Camera
			V60AN	Ornamental foliage and flowering plants, commercial flower crops
11.	Millets Dr.R.Ravikesavan, Professor and Head	1	V60AY	Millet seeds
12.	Nano Science and Technology Dr. A.Lakshmanan, Professor and Head	1	V60HB	Analysis of samples
13.	Nematology Dr.N.Swarnakumari, Asst. Prof. (Nem.)	1	V60HT	Talc based formulation of nematode antagonistic fungi
14.	Oil Seeds Dr. R. Sasikala Asst. Prof. (PB&G)	1	V60FT	Groundnut seed production
15.	Plant Genetic Resources Dr.V.Thiruvengadam, Asst. Prof. (PBG)	1	V60GH	Germplasm conservation
16.	Plant Pathology Dr.A.Sudha, Asst. Prof.	3	V60BH	Sale of <i>T. viride</i> talc formulation
	Dr.P.Latha, Asst. Prof. (Pl. Path.)		V60BF	Bed and Mother Spawn
	Dr. V. Sendhilvel, Asst. Prof. (Pl. Path.)		V60AB	Pseudomonas (Pf1)talc
17.	Post Harvest Technology Dr. K.Thangavel , Professor and Head	2	V60CP	Value added fruit and vegetable produces production and sale

	Dr.Z.John Kennady, Professor (Ag. Micro)		V60EX	Food Quality Analysis
18.	Pulses Dr.P.Jeyamani, P&H	1	V60FU	Pulse seed production
19.	Remote Sensing & GIS Dr.K.P.Ragunath, Asst. Prof., (SS&AC)	1	V60CQ	Digital Soil Map
20.	Seed Science Technology Dr.R.Jerlin, Professor and Head	1	V60FM	Testing of Seed Samples
21.	Soil Science and Agricultural Chemistry Dr. R.Santhi , Director (DNRM)	5	V60AZ	Soil, water and plant samples
	Dr. D.Jegadeeswari, Assoc. Professor		V60HE	Crop wise Micronutrient Mixture
	Dr. M. Malarkodi, Asst. Professor (SS&AC)		V60HO	Nurtri seed and Pellet Packs
	Dr.R.K.Kaleeswari, Professor (SS&AC)		V60IT	TNAU-WSF
	Dr. S. Meena, Professor (SS&AC)		V60HX	Analytical services
22.	Spices and Plantation crops Dr.M.Mohanalakshmi, Asst. Prof., (Hort)	1	V60BE	Tall Variety (WCT) Dwarf Variety
23.	Sustainable Organic Agriculture Dr.R. Sunitha, Assistant Professor (ENS)	1	V60HY	Production of Panchagavya
24.	Training Division (DoEE) Dr.M.Senthilkumar, Asst. Prof.(Agrl. Extn.)	1	V60CC	Video unit
25.	Veterinary and Animal Sciences Dr.M.Thirunavukkarasu, Asst. Professor	1	V60HR	Animal production
26.	Directorate of Agribusiness Development Dr.S.D.Sivakumar, Director (ABD)	1	V60IQ	VCS database maintenance
Total for Coimbatore – Main Campus (I)		42		

II. Constituent Colleges				
A. AC&RI, Madurai				
1.	Agricultural Microbiology Dr.K.Kumutha, Professor and Head	2	V60EN	Liquid Biofertilizer
	Dr.R.Umasankareswari, Asst. Prof. (Agrl. Micro)		V60FS	VAM
2.	Farm Management Dr.S.Lakshmi, Asst. Prof.	2	V60FW	Seed production
	Dr.E.Subramanian, Asst. Prof.		V60GP	production of large white Yorkshire Pig, poultry and goat
3.	Horticulture Dr.M.Palanikumar, Asst. Prof. (Hort.)	2	V60GM	Ornamental Plants and Tree Seedling
	Dr.A.Beulah, Assoc. Prof. (Hort.)		V60AW	Planting materials
4.	Plant Pathology Dr.N.Revathy, Assoc. Prof.	1	V60BL	Biocontrol agents and Mushroom spawn
5.	Seed Science and Technology Dr.T.Sivakumar, Asst. Prof.	1	V60EZ	TNAU Coconut Tonic
6.	Soil and Environment Sciences Dr.P.Christy Nirmala Mary, Assoc. Prof.	2	V60EO	Analytical services- Soil and water samples
	Dr.P.Kannan, Asst. Prof. (SS&AC)		V60CF	Vermicompost
7.	Agricultural Entomology Dr.K.Premalatha, Asst. Prof. (Agrl. Ent.)	1	V60IK	Plant Metabolite and Volatile analysis
Total for AC&RI, Madurai		11		
B. AC&RI, Killikulam				
1.	Agronomy Dr.A.Senthil, Assistant Prof. (CRP)	1	V60DD	TNAU Coconut tonic
2.	Farm management Dr.D.Rajakumar, Asst.Prof (Agron.)	1	V60CX	FS & BS production of Rice
3.	Horticulture Dr.C.Ravindran, AP(Hort.)	1	V60FA	Snake, Ribbed and bitter gourd

4.	Plant Pathology Dr.R.Kannan, Prof. and Head	1	V60FR	Spawn and Mushroom training
5.	Soil Science Agricultural Chemistry Dr.B.Jeberlin Prabina, Assoc. Prof (Agrl. Micro.)	1	V60CY	Vermicompost and Biofertilizers
6.	Breeding Dr.S.Saravanan, Asst Prof. (PBG)	1	V60HW	Red, Black and greengram
Total for AC&RI, Killikulam		6		
C. ADAC&RI, Trichy				
1.	Agronomy Dr.S.Rathika, Assistant Professor (Agro.)	1	V60EP	Vermicompost
2.	Soil science and Agricultural Chemistry Dr.M.Sundar, Professor (Agrl. Micro.)	2	V60EV	Biofertilizers
	Dr.P.Janaki, Associate Professor (SS&AC)		V60IJ	Soil and plant
3.	Plant Protection Dr.P.T.Sharavanan, Asst. Prof. (Pl. Path.)	1	V60GO	<i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>
4.	Food processing Incubation cum training centre Dr. M.Marimuthu, Assoc. Professor	1	V60HV	Production and Training
5.	Agricultural Entomology Dr.S.Sheeba Joyce Roseleen, AP (Ag. Ent.)	1	V60HS	Honey and Bee Colonies
6.	Plant Pathology Dr.K.Chitra, AP (Pl. Pat.)	1	V60I I	Mushroom Training
Total for ADAC&RI, Trichy		7		
D. AEC&RI, Kumulur				
1.	Applied Sciences and Engineering Dr. Alex Albert Asst Prof (SST)	1	V60EE	Forestry Seedlings
2.	Farm Machinery & Bio energy	1	V60FD	Sale of agricultural machineries

	Dr.P.K.Padmanathan, Asst. Prof. (FMP)			
Total for AEC&RI, Kumulur		2		
E. FC&RI, Mettupalayam				
1.	Agro forestry Dr.P.Rajendran, Assoc. Prof.,(Forestry)	1	V60BJ	Casuarina, Malai vembu, Eucalyptus, Sandal, Red sandal, Teak, Silk cotton Simarouba & other tree seedlings
2.	Forest Products and Utilization Dr.G.Thangamani Assoc. Prof. (Ag.Micro)	2	V60ES	Bioinoculants
	Dr.R.Ravi, Asst.Prof.,(Forestry)		V60GW	Tree Seedlings
3.	Tree Breeding Dr.P.S.Devanand, Asst.Prof.(PB&G)	1	V60HF	<i>Melia dubia</i> and Neem
4.	Silviculture Dr.M.Sivaprakash, Asst.Prof.,(Forestry)	1	V60IA	Tree Seedling
Total for FC&RI, Mettupalayam		5		
F. CSC&RI, Madurai				
1.	Food Science and Nutrition Dr.S.Kamalasundari, Asst.Prof.	2	V60DU	Training
			V60HJ	Food Processing capacity building program
2.	Home Science Extension Dr L.Nirmala, Asst Prof (Extn)	1	V60GI	Training
3.	Human Development Dr.V.Veeranan Arun Giridhari, Assistant Professor	1	V60IB	Food Processing
Total for HSC&RI, Madurai		4		
G. HC&RI, Periyakulam				
1.	Floriculture and Medicinal Crops Dr.P.Arul Arasu, Asst. Professor (Horti.)	1	V60GF	Ornamental & Medicinal plants
2.	Fruit Crops Dr.M.Kavino, Asst. Prof. (Hort.)	2	V60AJ	Fruit seedling Production

	Dr.V.Vani, Asst. Prof. (Home Sci.)		V60GC	Food processing training
3.	Spices and Plantation Crops Dr.S.Chitra, Asst. Prof. (Hort.)	3	V60GL	Curry leaf seedlings and coriander seed
	Dr.Dr.D.Janaki, Asst. Prof. (SS&AC)		V60FB	Coconut tonic
	Dr. J. Kannan, Prof. (ENS)		V60DN	<i>Pseudomonas, Trichoderma, Azospirillum</i> and VAM
4.	Vegetables Crops Dr.P.Geetharani, Prof. (SS&T)	1	V60AC	Vegetable seeds
Total for HC&RI, Periyakulam		7		
H. HC&RI Women, Trichy				
1.	Dr. K.Kumanan Asst Prof (Horti)	1	V60IP	Planting materials
I. AC&RI, Vazhavachanur				
1.	Dr.V.Arunkumar, Asst. Prof. (SS&AC)	1	V60IN	Sale of Milk
J. AC&RI, Eachangottai				
1.	Dr.S.Mathiyazhagan , Asst. Prof. (Pl. Path.)	1	V60IS	Biofertilizer and Biocontrol agents
Total for Constituent Colleges (II)		45		
III Research Stations/Institute/Centre				
1.	ARS, Bhavanisagar Dr.P.Hemalatha, Asst.Prof.(Horti)	2	V60AT	Clonal propagation of Amla
			V60EB	Production and distribution of Banana suckers
	Dr. R. Vigneshwari, Asst.Prof (SS&T)	1	V60BI	Production of paddy foundation seed
	Dr. Sangeetha Panicker, Prof. (Pl. Path.)	1	V60DM	Production of <i>Trichoderma viride, Pseudomonas fluorescens</i> and <i>Pleurotus spp</i>
	Dr. D. Muthumanickam Prof. (SS&AC), ARS, Bhavanisagar	1	V60ED	Vermicompost
	Dr.Sheela Venugopal, Asst.	2	V60EM	Coconut seedlings

	Prof.(Ag.Ent.)		V60IG	Production of <i>Beauveria</i> and <i>Metarhizium</i>
Total for ARS, Bhavanisagar		7		
2.	ARS, Pattukottai Dr.M.Tamil Selvan, Asst. Prof. (Hort.)	1	V60BO	Coconut seedlings
3.	ARS, Thirupathisaram Dr.G.Preetha, Asst. Prof. (Ento.)	1	V60FN	Paddy and Vermicompost
4.	ARS, Virinjipuram Dr. D.Dinakaran, Prof. and Head	2	V60BQ	Seedling Production
	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	Vermicompost
	Dr. E. Rajeshwari, Assoc. Prof. (Pl. Path.)		V60EA	<i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>
	Dr. S. Rani, Asst. Prof. (Agronomy)		V60CR	Seedling production
	Dr. M.Alagar, Asst. Prof. (Agrl. Ento.)		V60GQ	<i>B. brevicornis</i>
	Dr.C.Sudhalakshmi, Asst. Prof. (SS&AC)		V60HZ	Soil and water samples
6.	Coconut Research Station, Veppankulam Dr. M.Surulirajan Asst Prof (Path),	3	V60FF	<i>Trichoderma viride</i> and <i>pseudomonas fleuroscens</i>
	Dr.K.S.Vijay selvaraj, Asst. Prof.		V60BX	Seed nuts
	Dr.A.Selva Rani, Asst.Prof. (Agro.)		V60CK	TNAU Coconut Tonic
7.	Cotton Research Station (CRS), Veppanthatti Dr. K.Sakthivel, Asst Prof (PBG)	1	V60GJ	<i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i>
8.	Dryland Agricultural Research Station, Chettinad	1	V60HU	Training

	Dr.S.Jesupriya Poornakala, Asst.Prof.(FSN)			
9.	Floriculture Research Station, Thovalai Dr. Dr.J.Prem Joshua	1	V60GT	Jasmine R cutting Neerium R cutting Polybag plants and vermicompost
10.	GRS, Theni Dr. A. Subbiah, Asst. Prof. (Hort.)	1	V60HQ	Seedling production
11.	HRS, Kodaikanal Dr.I.Muthuvel, Assoc. Prof. and Head	1	V60BU	Eucalyptus Oil Planting materials
12.	HRS, Ooty Dr. Keisar Lourdusamy, Asso. Prof. & Head	1	V60CW	Biocontrol agents
13.	HRS, Pechiparai Dr. S.T.Bini Sundar, Asst. Prof (Horti.)	2	V60CH	Seedlings production
	Dr. T.Senthilkumar, Asst. Prof.		V60DS	Vermicompost, Honey
14.	HRS, Thadiyankudisai Dr.T.Thangaselvabai, Prof. and Head	2	V60BG	Production of seedlings
	Dr.T.Thangaselvabai, Prof. and Head		V60BA	<i>Pseudomonas fluorescens</i> and Vermicompost
15.	HRS, Yercaud Dr.S.Nanthakumar	3	V60AG	<i>Azospirillum,</i> <i>Phosphobacteria,</i> <i>Trichoderma &</i> <i>pseudomonas</i>
			V60AH	Horticultural crop planting materials
			V60AL	Vermicompost VAM
16.	National Pulses Research Center, Vamban Dr.P.Ahila Devi, Asst. Prof. (Pl. Path.)	2	V60HC	Biocontrol agents and biofertilizers
	Dr.N.Manivannan, Professor (PBG)		V60HP	Seed production (Black & Green gram)
17.	RRS, Arupukottai Dr.R.Durai Singh,	4	V60DK	Vermicompost
	Dr.K.R.Rajadurai, Asst. Prof. (Horti)		V60DL	Seedlings / Budded plants / grafts
	Dr.P.Mareeswari, Asst.		V60DB	Spawn and mushroom

	Prof. (Pl. Path.) Dr.J.Rajkumar, Asst Professor (Crp. Phy.)		V60DC	Kids birth
18.	RRS, Paiyur Dr.N.Indra, Asst. Prof. (Pl. Path.) Dr.M.Vijayakumar, Asst. Prof. (SS&AC)	2	V60AM V60BY	<i>Pseudomonas fluorescens</i> and <i>Trichoderma viride</i> Vermicompost and Earthworms
19.	RRS, Tirur Dr.A.Sheeba, Asst. Prof. (PBG)	1	V60BD	Breeder and TFL Seed
20.	Sugarcane Research Station, Sirugamani Dr. L.Chithra, Professor and Head	1	V60DG	Seed buds and Seedlings
21.	TCRS, Yethapur Dr.P.Arutchethil, Assoc. Prof. (PBG) Dr.P.S.Kavitha, Asst. Prof. (Hort.) Dr.M.K.Kalarani, Professor (Crop Phy.)	3	V60DX V60CE V60BC	Castor Hybrid Cassava stem TNAU Coconut tonic and Castor gold
22.	TRRI, Aduthurai Dr.M.Jeya Bharathi, Asst. Prof. (Agrl. Mirco.) Dr. K.Subrahmaniyan Prof (Agron) Dr.R. Thilagavathi, Asst. Prof. (Pl. Path.)	3	V60 CU V60HN V60ID	<i>Azospirillum</i> and <i>Phosphobacteria</i> Seed production <i>Pseudomonas</i> and <i>Trichoderma talc</i>
23.	TNAU Info.and Training Center, Chennai Dr.K.R.Vijayalatha, Asst. Prof. (Horti.)	1	V60AI	Food production and mushroom cultivation
24.	VRS, Palur Dr.K.Nageswari, Prof. &Head Dr.K.Nageswari, Prof. &Head Dr.K.Senthamizh, Asst. Prof. (Nema.)	3	V60AO V60AP V60ER	Vegetable seeds Paddy seed and black gram Jack grafts
25.	Sugarcane Research Station, Melalathur Dr. R.Sudhagar, Assoc. Professor (PB&G)	1	V60IE	Seed production in pulses and sugarcane

26.	Centre of Excellence in Millets, Athiyandal Dr. M. Rajesh, Asst. Prof. (Pl. Path.)	1	V60IF	<i>Trichoderma viride</i>
27.	Sugarcane Research Station, Cuddalore Dr.R.Anitha, Asst. Prof. (Crop Phy.)	1	V60IH	Tissue culture seedlings
28.	Citrus Research Station, Sankarankovil Dr.Nainar, Prof. (Hort.)	1	V60IL	Citrus seedlings
29.	ARS, Kovilpatty Dr.S.Manoharan, Asst. Prof. (Agro.)	1	V60CN	K1 Chillies Seedlings
30.	Rice Research Station, Ambasamudram Dr.S.Arumugachamy, Prof. and Head	1	V60IR	Rice – Seed production
Total for Research Stations (III)		58		
(Grand Total I+II+III)		145		

List of Inputs / Products / Services

S.No	Name of the Product	Unit	Product Category
1	Milk	lit	AH
2	Live Goat	nos	AH
3	Animals & Birds	nos	AH
4	Agricultural Machineries	nos	AM
5	Soil Samples	nos	AS
6	Water Samples	nos	AS
7	Quality Analysis	nos	AS
8	Conservation of Plant genetic resources	nos	AS
9	Metabolic analysis	nos	AS
10	Plant Metabolite / Volatile analysis	nos	AS
11	Pseudomonas	kg	BCA
12	Trichoderma	kg	BCA
13	B.brevicornis	kg	BCA
14	Pseudomonas (Pf1) talc	kg	BCA
15	Liquid Pseudomonas (Pf1)	lit	BCA
16	FP7 Talc	kg	BCA

17	Mother Culture	kg	BCA
18	Bacillus Talc	kg	BCA
19	Beauveria Talc	kg	BCA
20	Trichoderma mother culture tube	nos	BCA
21	Acerophagus	nos	BCA
22	Bracon	nos	BCA
23	Goniozus	nos	BCA
24	Chrysoperla	nos	BCA
25	Cryptolaemus	nos	BCA
26	Corcyra	nos	BCA
27	Nematode antagonistic fungi	kg	BCA
28	Liquid Bio fertilizers	lit	BCA
29	Mycorrhiza	kg	BCA
30	Paecilomyces	kg	BCA
31	PPFM	lit	BCA
32	Vermicompost	kg	BF
33	Azospirillum	kg	BF
34	Phosphobacteria	kg	BF
35	VAM	kg	BF
36	Rhizobium	kg	BF
37	Earthworms	kg	BF
38	Panchakavya	lit	BF
39	Dasakavya	lit	BF
40	Enriched Compost	kg	BF
41	Fertilizer Pellet Packs	nos	BF
42	Manure Samples	kg	BF
43	Azolla / Azophos	kg	BF
44	BGA	kg	BF
45	Azotobacter	kg	BF
46	KRB	kg	BF
47	Glucano Acetobacter	kg	BF
48	KSB	kg	BF
49	ZSB	kg	BF
50	Honey	kg	BK
51	Comb foundation sheet	kg	BK
52	Bee Colonies	nos	BK
53	Bee Hives	nos	BK
54	Green manure	kg	BP

55	Wild boar repellent	lit	BP
56	Vermi Bag	nos	BP
57	CN Grass - slips	nos	FD
58	Fodder maize	kg	FD
59	Fodder sorghum	kg	FD
60	Juice	lit	FP
61	Pickle	kg	FP
62	Health Mix	kg	FP
63	Puttu Mix	kg	FP
64	Adai Mix	kg	FP
65	Millet Sweet Ball	kg	FP
66	Millet Biscuit	kg	FP
67	Health Drink	lit	FP
68	Sprouted Sundal	kg	FP
69	Amla Squash	lit	FP
70	Mixed Fruit Squash	lit	FP
71	Mango Squash	lit	FP
72	Guava Squash	lit	FP
73	Insectoscope	nos	IM
74	Souvenir sales	nos	IM
75	Pulse Wonder	kg	MN
76	Groundnut Rich	Kg	MN
77	Cotton Plus	kg	MN
78	Maize Maxim	kg	MN
79	Sugarcane booster	kg	MN
80	Coconut Tonic	lit	MN
81	TNAU Biomineralizer	packets	MN
82	Castor gold	lit	MN
83	Nutri Pellet Packs	nos	MN
84	Bed Spawn	kg	MSH
85	Mother Spawn	kg	MSH
86	Mushroom bed spawn	nos	MSH
87	Edible Mushroom	kg	MSH
88	Eucalyptus Oil	lit	OP
89	Citronella Oil	lit	OP
90	Tea Tree Oil	lit	OP
91	Banana bunches	kg	P
92	Banana Leaf	kg	P

93	Samai haulms	kg	P
94	Jack grafts	nos	SDL
95	Cassava stem	nos	SDL
96	Jasmine R Cutting	nos	SDL
97	Neerium R Cutting	nos	SDL
98	Polybag plants	nos	SDL
99	Pot plants	nos	SDL
100	Water lily	nos	SDL
101	Black pepper rooted cuttings / Brush pepper rooted cuttings	nos	SDL
102	Cinnamon / Clove / Nutmeg / Garcinia / Arecaunat / Other Seedlings	nos	SDL
103	Nutmeg / Garcinia Grafts	nos	SDL
104	Ornamental foliage and flowering plants, commercial flower crops	nos	SDL
105	Coconut Tall Variety(WCT)	nos	SDL
106	Coconut Dwarf Variety	nos	SDL
107	Ornamental & Medicinal plants	nos	SDL
108	Dogridge wild grape rootstocks & grape varieties	nos	SDL
109	Tamarind graftings	nos	SDL
110	Curryleaf seedlings	nos	SDL
111	Tree Seedlings	nos	SDL
112	Sucker & Leaves	nos	SDL
113	Arid zone crops	nos	SDL
114	Fruit Plants	nos	SDL
115	Coffee Seedlings	nos	SDL
116	Avacado seedlings	nos	SDL
117	Coconut Hybrids (VHC2, VHC3, VPM5, DxT)	nos	SDL
118	ECT seed nuts	nos	SDL
119	Sugarcane Chipbudded seedlings	nos	SDL
120	Seed cane	ton	SDL
121	Chewing cane	ton	SDL
122	Multipurpose tree species	nos	SDL
123	PIALS Citrus Sapling	nos	SDL
124	RTS	nos	SDL
125	Papaya Seedlings & Moringa Seedlings	nos	SDL
126	Acid lime	nos	SDL
127	Rose cuttings	nos	SDL

128	Pepper Plants	nos	SDL
129	Curry leaves, WI cherry Cuttings, Shade grasses	nos	SDL
130	Coriander Leaves	kg	SDL
131	Tissue Culture Seedlings	nos	SDL
132	Brinjal Seeds / Fruits	kg	SDL
133	Sapota Fruits	kg	SDL
134	Jack Fruits	kg	SDL
135	Lime Fruits	kg	SDL
136	Banana Suckers	nos	SDL
137	Simaruba	nos	SDL
138	Insulin Plant	nos	SDL
139	Vegetable Seeds	kg	SEED
140	Paddy Seed	kg	SEED
141	Blackgram	kg	SEED
142	Breeder Seed-TKM 9	kg	SEED
143	Breeder Seed-ADT® 45	kg	SEED
144	Breeder Seed - TKM 13	kg	SEED
145	TFL Seed - TKM 13	kg	SEED
146	TFL Seed - TKM 9	kg	SEED
147	Castor Hybrid	kg	SEED
148	Nutriseed Packs	nos	SEED
149	Millet Seeds	kg	SEED
150	Wheat (HW 1098)TFL	kg	SEED
151	Oil seeds	kg	SEED
152	Redgram	kg	SEED
153	Greengram	kg	SEED
154	Cowpea	kg	SEED
155	Rice (ADT 39 FS-1, ASD 16 CS, ADT 39 CS, TKM 13 FS-1, TPS 5 FS 1, ASD 16 FS - II)	kg	SEED
156	Turmeric seed rhizome	kg	SEED
157	Coriander seed	kg	SEED
158	SSI seed Materials	kg	SEED
159	Horsegram seeds	kg	SEED
160	Bengalgram	kg	SEED
161	Transcript Card	nos	SS
162	Tree Killer	lit	TK
163	Training	nos	TR
164	DSSIFER CD	nos	VU

165	VDK CD	nos	VU
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AH - Animal Husbandry, AM - Agricultural Machineries, AS - Analytical Services, BCA – Bio Control Agents, BF - Bio Fertilizer, BK - Bee Keeping, BP - Bio Product, FD - Fodder, FP - Food Processing, MN - Micro Nutrient, MSH - Mushroom, OP - Oil Processing, SDL - Seedlings, SEED - Seeds, VU - Video Unit, TR – Training, IM – Insect Museum, SS – Students Service, TK – Tree Killer and P – Product.

Product wise analysis of VCS

1. Vermicompost (Kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	60428	60345	83
2016-1	45095	44748	347
2017-18	67194	66450	745
2018-19	82981	80235	2746

2. Pseudomonas (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	7033	8773	1740
2016-17	11107	10967	140
2017-18	17608	17819	211
2018-19	17034	16629	405

3. Trichoderma (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	17512	15443	2069
2016-17	14506	14277	229
2017-18	18325	18044	281
2018-19	20570	20038	532

4. Vegetable Seeds (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	278	263	15
2016-17	462	400	62
2017-18	493	425	68
2018-19	624	623	1

5. Planting Materials (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	2169352	2165548	3804
2016-17	1507757	1476985	30772
2017-18	1079833	1070921	8912
2018-19	1262969	1259119	3850

6. Paddy Seed (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	37255	37255	0
2016-17	48660	48660	0
2017-18	82985	57965	25020
2018-19	220164	42864	177300

7. Blackgram Seed(kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	1382	1382	0
2016-17	2538	2370	168
2017-18	2842	2731	111
2018-19	1454	1641	187

8. Jack grafts (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	8232	8232	0
2016-17	14398	7763	6635
2017-18	10167	10148	19
2018-19	11988	11420	568

9. 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

10. Breeder Seed-ADT® 45 (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	1260	1260	0
2016-17	1375	1375	0
2017-18	3000	3000	0
2018-19	3510	3510	0

11. 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

12. TFL Seed - TKM 13 (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	7	36	29
2016-17	6750	6754	4
2017-18	46	0	46
2018-19	30	45	15

13. TFL Seed - TKM 9 (kg)

Period	Quantity Produced	Quantity Sold	Balance
2016-17	550	550	0

14. Azospirillum (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	5123	5123	0
2016-17	11283	11295	12
2017-18	17136	17340	204
2018-19	6911	7507	596

15. Phosphobacteria (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	2693	2693	0
2016-17	10469	10724	255
2017-18	17057	16997	60
2018-19	8329	8329	0

16. 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	6732	6296	436

17. 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

18. 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

19. Coconut (nos)

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

20. 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

21. Milk (lit)

Period	Quantity Produced	Quantity Sold	Balance
2018-19	1270	1270	0

22. Rice-Seed (BS,FS & CS) (kg)

Period	Quantity Produced	Quantity Sold	Balance
2017-18	1310	37335	36025
2018-19	17170	4670	12500

23. Cassava stem (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	41842	41842	0
2016-17	18831	18831	0
2017-18	26604	26604	0
2018-19	25191	25191	0

24. Castor Hybrid (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	400	400	0
2016-17	102	102	0
2017-18	158	158	0
2018-19	150	150	0

25. 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

26. 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

27. 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

28. Pot plants (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	2	2	0
2016-17	78	78	0
2017-18	7	7	0

29. Water lily (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	1	1	0
2016-17	63	63	0
2017-18	23	23	0
2018-19	0	0	0

30. Black pepper rooted cuttings / Brush pepper rooted cuttings (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	1	1	0
2016-17	63	63	0
2017-18	23	23	0
2018-19	0	0	0

31. 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

32. Nutmeg / Garcinia Grafts (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

33. 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	494	465	29

34. Rhizobium (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	299	299	0
2016-17	908	905	3
2017-18	501	504	3
2018-19	931	959	28

35. Earthworms (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	3062	3062	0
2016-17	591	591	0
2017-18	947	947	0
2018-19	1442	1442	0

36. 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	8562	8562	0

37. Liquid Pseudomonas (Pf1) (lit)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	242	242	0
2016-17	595	595	0
2017-18	731	731	0
2018-19	1351	1351	0

38. 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

39. 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

40. Quality Analysis (nos) – Water / Soil

Period	Quantity Analysed	Balance
2015-16	67	16
2016-17	40	5
2017-18	73	9
2018-19	73	11

41. 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

42. Beauveria Talc (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	57	57	0
2018-19	43	43	0

43. Bed Spawn (kg)

Period	Quantity Produced	Quantity Sold	Balance
2017-18	0	9405	9405
2018-19	10050	9450	600

44. 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

45. Tricoderma 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

46. 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

47. Bee Colonies (nos)

Period	Quantity Produced	Quantity Sold	Balance
2017-18	20	6	14
2018-19	148	135	13

48. Bee hives (nos)

Period	Quantity Produced	Quantity Sold	Balance
2018-19	127	127	0

49. 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

50. 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

51. Goniozus (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	1450	1450	0
2017-18	3700	3700	0

52. 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

53. 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

54. 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

55. 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

56. Insectoscope (nos)

Period	Quantity Produced	Quantity Sold	Balance
2018-19	1855	1855	0

57. Souvenir sales (nos)

Period	Quantity Produced	Quantity Sold	Balance
2018-19	388	149	239

58. Ornamental foliage and flowering plants, commercial flower crops (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	26000	25500	500
2016-17	15926	15168	758
2017-18	24256	23216	1040
2018-19	19000	18968	32

59. 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

60. 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

61. Biocontrol Agents (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	9654	9200	454
2016-17	13378	12927	451
2017-18	11215	11042	173
2018-19	14970	14075	895

62. Biofertilizers (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	52518	51731	787
2016-17	72026	73738	1712
2017-18	39959	39602	357
2018-19	58422	57854	568

63. Panchakavya (lit)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	4096	2378	1718
2016-17	3158	3125	33
2017-18	1661	2925	1264
2018-19	2751	2672	79

64. Dasakavya (lit)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	2547	2361	186
2016-17	370	270	100
2017-18	170	158	12

65. Eucalyptus Oil (lit)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	21	20	1
2016-17	111	111	0
2017-18	83	83	0
2018-19	40	27	14

66. 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

67. Enriched Compost (kg)

Period	Quantity Produced	Quantity Sold	Balance
2016-17	11000	11000	0

68. Citronella Oil (lit)

Period	Quantity Produced	Quantity Sold	Balance
2017-18	1	1	0

69. Tea Tree Oil (lit)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	2	0.27	1.73

70. DSSIFER CD (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	38	38	0
2016-17	17	17	0
2017-18	17	17	0
2018-19	8	8	0

71. VDK CD (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	47	47	0
2016-17	34	34	0
2017-18	25	25	0
2018-19	1	1	0

72. 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

73. 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

74. 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

75. 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

76. 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

77. Manure Samples (nos)

Period	Quantity Produced	Quantity Sold	Balance
2017-18	8	8	0
2018-19	199	199	0

78. 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

79. Groundnut Rich (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	2292	2292	0
2016-17	1930	1930	0
2017-18	1477	1477	0
2018-19	2126	2126	0

80. 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

81. 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

82. 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

83. Seedlings (nos)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	4927	4927	0
2016-17	3957	3957	0
2017-18	2667	2667	0
2018-19	1596	1596	0

84. Millet Seeds (kg)

Period	Quantity Produced	Quantity Sold	Balance
2015-16	2400	2331	69
2016-17	1065	810	255
2017-18	1528	1283	245
2018-19	1798	856	942

85. Live Goat (nos)

Period	Quantity Produced	Quantity Sold	Balance
2018-19	0	207	207

86. Green manure (kg)

Period	Quantity Produced	Quantity Sold	Balance
2016-17	1144	522	622
2017-18	390	1004	614
2018-19	3368	1403	1965

87. Wheat (HW 1098) TFL (kg)

Period	Quantity Produced	Quantity Sold	Balance
2016-17	1087	1087	0

88. CN Grass (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	77	77	0
2016-17	93	93	0
2017-18	192	192	0
2018-19	173	173	0

89. Fodder maize (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	7033	8773	1740
2016-17	11107	10967	140
2017-18	17608	17819	211
2018-19	17034	16629	405

90. Animals & Birds (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	15	33	18
2016-17	22	51	29
2017-18	15	36	21
2018-19	24	84	60

91. CN grass sets (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	305430	305430	0
2018-19	72800	72800	0

92. Oil seeds (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	7875	7875	0
2016-17	5424	5424	0
2017-18	4779	4779	0
2018-19	3416	3416	0

93. Conservation of Plant genetic resources (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	27081	27081	0
2016-17	27219	27219	0
2017-18	27232	27232	0
2018-19	27594	27594	0

94. Ornamental & Medicinal plants (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	8867	8179	688
2016-17	7255	6692	563
2017-18	9061	8457	604
2018-19	10990	10486	504

95. Seed Production (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	76223	76223	0
2016-17	122061	122061	0
2017-18	72144	72144	0
2018-19	102605	102605	0

96. Redgram (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	48	48	0
2016-17	0	0	0
2017-18	1286	1286	0
2018-19	1088	1088	0

97. Greengram (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	65	65	0
2017-18	1750	1217	533
2018-19	484	1017	533

98. Cowpea (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	83	83	0

99. Dogridge wild grape rootstocks & grape varieties (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	4750	4750	0
2016-17	146307	146307	0
2017-18	74045	74045	0
2018-19	93198	93198	0

100. Mushroom bed spawn (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	85	85	0
2016-17	45	45	0
2017-18	37	37	0
2018-19	433	404	29

101. Tree Killer (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	41	24	17

102. Azolla / Azophos (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	411	411	0
2016-17	512	512	0
2017-18	87	87	0
2018-19	320	320	0

103. BGA (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	1024	1024	0
2016-17	393	393	0
2017-18	803	803	0
2018-19	821	821	0

104. 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 Sale	Balance
2015-16	22950	26300	3350
2016-17	540	20500	19960
2017-18	64940	540	64400
2018-19	37640	57250	19610

105. Turmeric seed rhizome (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	1825	1825	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	0	0	0

106. Tamarind grafting (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	5500	5500	0
2016-17	11000	11000	0
2017-18	8500	8500	0
2018-19	7500	7500	0

107. Curryleaf seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	1500	1500	0
2018-19	1750	1750	0

108. Coriander seed (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	0	30	30

109. Tree Seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	143631	138334	5297
2016-17	164415	154089	10326
2017-18	255360	226235	29125
2018-19	220248	187552	32696

110. Banana bunches (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	7633	7633	0
2016-17	11310	11310	0
2017-18	5243	5243	0
2018-19	34882	34882	0

111. Sucker & Leaves (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	1995	1995	0
2017-18	830	830	0
2018-19	20262	20262	0

112. Coconut Seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	6033	1	6032
2016-17	0	3439	3439
2017-18	0	1385	1385
2018-19	2000	1176	824

113. Bakery Product (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	423	423	0
2016-17	738	738	0
2017-18	433	433	0
2018-19	307	307	0

114. Juice (lit)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	1020	1020	0
2018-19	150	150	0

115. Arid zone crops (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	6650	6650	0
2016-17	2686	2686	0
2017-18	2705	2705	0
2018-19	3598	3598	0

116. Fruit Plants (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	23346	19208	4138
2016-17	29732	29154	578
2017-18	35799	18042	17757
2018-19	42898	28168	14730

117. Coffee Seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	34468	34468	0
2016-17	18935	18935	0
2017-18	14525	14525	0
2018-19	20100	20100	0

118. Avacado seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	4260	4260	0
2016-17	10594	10594	0
2017-18	1522	1522	0
2018-19	1787	1787	0

119. Coconut Tall (ECT, VPM3, WCT) (Kg) (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	13078	13078	0
2016-17	17924	17924	0
2017-18	8382	8382	0
2018-19	5564	5564	0

120. Coconut Hybrids (VHC2, VHC3, VPM5, DxT) (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	12732	12732	0
2016-17	8647	8647	0
2017-18	4815	4815	0
2018-19	5249	5249	0

121. ECT seed nuts (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	13500	13500	0
2016-17	5000	5000	0
2017-18	0	0	0
2018-19	6400	6400	0

122. Mycorrhiza (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	18	18	0
2017-18	0	0	0
2018-19	0	0	0

123. Liquid formulation (lit)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	16	16
2018-19	21	21	0

124. Si8 chipbudded seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	30015	30015	0
2016-17	8500	8500	0
2017-18	100	100	0
2018-19	600	600	0

125. Seed cane (ton)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	24	24	0
2016-17	25	25	0
2017-18	52	52	0
2018-19	30013	26103	3910

126. Cewing cane (ton)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	20	20	0

127. Vermi Bag (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	14	14	0
2017-18	12	12	0
2018-19	19	19	0

128. Paecilomyces (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	25	25	0
2017-18	807	835	28
2018-19	1663	1663	0

129. Multipurpose tree species (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	4000	3650	350
2016-17	6000	5034	966
2017-18	7000	6730	270
2018-19	0	0	0

130. Ornamental seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	7000	6577	423

131. PPFM (lit)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	27	27	0
2016-17	35	35	0
2017-18	22	22	0
2018-19	26	26	0

132. Azotobacter (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	7	7	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	32	32	0

133. KRB (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	6	6	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	108	108	0

134. GlucanoAcetobacter (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	5	5	0
2016-17	0	0	0
2017-18	0	0	0
2018-19	5	5	0

135. KSB (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	19	19	0
2018-19	0	0	0

136. Agricultural Machineries (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	32	32	0
2016-17	36	36	0
2017-18	50	50	0
2018-19	0	0	0

137. Spawn (nos) (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	1000	1000	0
2016-17	6026	6026	0
2017-18	9147	9147	0
2018-19	5926	5926	0

138. Edible Mushroom (g) (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	4	4	0
2016-17	11	11	0
2017-18	6	6	0
2018-19	1100	1100	0

139. PIALS Citrus Sapling (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	1225	1225	0
2016-17	772	772	0
2017-18	416	416	0
2018-19	298	298	0

140. RTS (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	350	350	0
2016-17	2282	2282	0
2017-18	1075	1075	0
2018-19	3017	3017	0

141. Pickle (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	20	20	0
2016-17	38	38	0
2017-18	44	44	0
2018-19	25	25	0

142. Papaya Seedlings & Moringa Seedlings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	2520	2520	0
2016-17	3111	3111	0
2017-18	2134	2134	0
2018-19	421	421	0

143. Acid lime (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	109	109	0
2016-17	354	354	0
2017-18	1793	1793	0
2018-19	799	799	0

144. Rose cuttings (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	128	128	0
2016-17	34	34	0
2017-18	92	92	0
2018-19	5	5	0

145. Curry leaves, WI cherry Cuttings, Shade grasses (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	140	140	0
2016-17	82	82	0
2017-18	20	20	0
2018-19	17	17	0

146. Mushroom (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	21	21	0
2017-18	16	16	0
2018-19	17	17	0

147. Banana Leaf (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	130	130	0
2016-17	290	290	0
2017-18	435	435	0
2018-19	73	73	0

148. Health Mix (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	102	102	0
2016-17	103	103	0
2017-18	109	109	0
2018-19	54	54	0

149. Puttu Mix (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	19	19	0
2016-17	13	13	0
2017-18	39	39	0
2018-19	0	0	0

150. Adai Mix (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	18	18	0
2016-17	19	19	0
2017-18	21	21	0
2018-19	0	0	0

151. Millet Sweet Ball (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	981	981	0
2016-17	634	634	0
2017-18	1600	1600	0
2018-19	379	379	0

152. Millet Biscuit (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	813	813	0
2016-17	499	499	0
2017-18	614	614	0
2018-19	117	117	0

153. Health Drink (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	7355	7355	0
2016-17	9601	9601	0
2017-18	8723	8723	0
2018-19	6619	6619	0

154. Sprouted Sundal (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	3270	3270	0
2016-17	4282	4282	0
2017-18	2121	2121	0
2018-19	2220	2220	0

155. Amla Squash (lit)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	1031	974	57
2016-17	44	201	157
2017-18	1050	680	370
2018-19	1017	717	300

156. Mango Squash (lit)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	5455	5045	410
2016-17	32	842	810
2017-18	890	590	300
2018-19	2958	1458	1500

157. Guava Squash (lit)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	20	20	0
2016-17	27	27	0
2017-18	0	0	0
2018-19	256	256	0

158. Brinjal Seeds / Fruits (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	9	9	0
2018-19	73	73	0

159. Sapota Fruits (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	103	103	0
2018-19	51	51	0

160. Jack Fruits (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	207	207	0
2018-19	349	349	0

161. Lime Fruits (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	69	69	0
2018-19	163	163	0

162. Wild boar repellent (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	17	17	0
2018-19	236	236	0

163. Horsegram seeds / haulms (Kg)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	528	528	0
2018-19	4	4	0

164. Metabolic analysis (nos)

Period	Quantity Produced	Quantity Sale	Balance
2015-16	0	0	0
2016-17	0	0	0
2017-18	236	236	0
2018-19	666	666	0

165. Soil Samples (nos)

Period	Quantity Analysed	Balance
2015-16	15443	-
2016-17	14277	-
2017-18	18044	-
2018-19	20038	-

166. Water Samples (nos)

Period	Quantity Analysed	Balance
2015-16	643	-
2016-17	491	-
2017-18	618	-
2018-19	598	-