

FOURTEENTH KERALA LEGISLATIVE ASSEMBLY

**COMMITTEE
ON
PUBLIC ACCOUNTS
(2016-2019)**

**SIXTH REPORT
(Presented on 8th March, 2017)**



**SECRETARIAT OF THE KERALA LEGISLATURE
THIRUVANANTHAPURAM**

2017

FOURTEENTH KERALA LEGISLATIVE ASSEMBLY

**COMMITTEE
ON
PUBLIC ACCOUNTS
(2016-2019)**

SIXTH REPORT

On

**Action Taken by Government on the Recommendations
contained in the 26th Report of the Committee on
Public Accounts (2011-2014)**

COMMITTEE ON PUBLIC ACCOUNTS (2016-2019)

Chairman:

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Shri Mullakkara Retnakaran

Shri Roshy Augustine

Legislature Secretariat:

Shri V. K. Babu Prakash, Secretary

Smt. S. Shahina, Joint Secretary

Shri P. P. Shahnawas, Deputy Secretary

Shri A. Jafar Khan, Under Secretary.

INTRODUCTION

I, the Chairman, Committee on Public Accounts, having been authorised by the Committee to present this Report, on their behalf present the Fifth Report on Action Taken by Government on the Recommendations contained in the 26th Report of Committee on Public Accounts (2011-2014).

The Committee considered and finalised this Report at the meeting held on 8th February 2017.

Thiruvananthapuram,
8th March, 2017.

V. D. SATHEESAN,
Chairman,
Committee on Public Accounts.

REPORT

This Report deals with the Action Taken by Government on the recommendation contained in the 26th Report of the Committee on Public Accounts (2011-14).

The 26th Report of the Committee on Public Accounts (2011-14) was presented to the House on 12th February 2013. The Report contained 23 recommendations relating to Agriculture Department. Government was addressed on 14-2-2013 to furnish the statements of action taken on the recommendations contained in the Report and the final reply was received on 10-3-2015.

The Committee examined the Statements on Action Taken at its meeting held on 17-6-2015 and decided to pursue the recommendation on para 54 and it is included in Chapter-I.

The Committee decided not to pursue further action on the remaining recommendations in the light of the replies furnished by the Government. Such recommendations and Government replies are incorporated in Chapter-II of this Report.

CHAPTER I

RECOMMENDATION IN RESPECT OF WHICH ACTION TAKEN BY GOVERNMENT IS NOT SATISFACTORY AND WHICH REQUIRE REITERATION.

AGRICULTURE DEPARTMENT

Recommendation

(Sl. No. 21, Para No. 54)

1.1 The Committee urges the department to frame a scheme for monitoring and evaluation of the activities of SHM by engaging the research scholars in the field with scholarship who could implement the scheme as part of their project work.

Action Taken

1.2 The proposal does not come under the purview of National Horticulture Mission.

Further Recommendation

1.3 The Committee opines that if National Horticulture Mission could not undertake the proposal, it could be carried out by the Agriculture Department.

CHAPTER II

RECOMMENDATION IN RESPECT OF WHICH THE COMMITTEE DO NOT DESIRE TO PURSUE FURTHER IN THE LIGHT OF THE REPLIES FURNISHED BY THE GOVERNMENT.

AGRICULTURE DEPARTMENT

Recommendation

(Sl. No. 1, Para No. 34)

2.1 The Committee understood that SHM had not prepared the mission document for the entire Mission period (2005-12). It remarked that the department had implemented the project without conducting any baseline survey or adequate preparation and as the objective of the Scheme was not fixed, the achievement of the project could not be evaluated. The Committee also views with grave disappointment that the department had not rectified these defects even after a lapse of 5 years. The Committee urges the Agriculture Department to complete the pilot study for conducting census regarding the cultivation data in a time bound manner incorporating the details for designing the Action Plan during the 12th Plan itself.

Action Taken

2.2 Horticulture Census in two districts (Malappuram and Idukki) has been started by the Department of Economics and Statistics and the census is in progress.

Recommendation

(Sl. No. 2, Para No. 35)

2.3 The Committee recommends to finalize a methodology urgently for preparing the district wise database incorporating all the details regarding

productivity and the area under cultivation, which could be used as a basic document for the 12th Plan.

Action Taken

2.4 Under the National Horticulture Mission Programme Hortnet is implemented in all the state including Kerala. On completion of the scheme the farmer based micro level data will be available. The project is now at the customization stage and will be operationalised immediately.

Recommendation

(Sl. No. 3, Para No. 36)

2.5 Towards the audit objection regarding deficiencies in preparation of Annual Action Plan, the Committee understands that the exercise was done without involving the district missions and the field level units, which shows the callous attitude of the department in preparing the Annual Action Plan. It observes that without assessing the beneficiary groups, they prepared irrational and unrealistic action plan, which resulted in under utilization of Central assistance during 2005-09.

Action Taken

2.6 One day workshop on preparation of Annual Action Plan at district level is conducted with the officers of Agriculture and online department, Kerala Agricultural University, Krishi Vigyan Kendra, Vegetable and Fruit Promotion Council, Keralam Financial Institutions, Progressive Farmers, Leaders, Peoples representatives and officials of central and state stake holders. As such the action plan now prepared is realistic.

Recommendation

(Sl. No. 4, Para No. 37)

2.7 Therefore, the Committee urges the department to prepare a foolproof and realistic Action Plan by assessing field level requirements taking into account the earlier drawbacks. The Committee recommends that while formulating district level Action Plans participation of some nodal agencies or district level TSG

should be ensured and the district level TSG should be formed for each district enabling proper vetting at district level itself and to avoid over estimation.

Action Taken

2.8 There is District Level Expert Committee (DLEC) under the Chairmanship of District Collector, Vice Chairmanship of Principal Agricultural Officer and convened by Deputy Directors of Agriculture (H). Members from Kerala Agricultural University and Development Department are also included in the Committee. They scrutinize the Annual Action Plan proposal evolved in the workshop and provide administrative sanction and technical sanction for schemes involving not more than 10 lakh which is the limit of financial delegation of power of Principal Agriculture Officer. As such a separate Technical Support Group is not required in the district.

Recommendation

(Sl. No. 5, Para No. 38)

2.9 Pointing out the examples of Kanjikuzhi and Mararikulam Panchayats in Alappuzha District, the Committee recommends to develop a methodology at Panchayat level in which harvesting, processing and marketing of products would be carried out by the farmers' group themselves. The Committee urges the department to clear the drawbacks faced by the department in the formulation of Action Plan and prepare bench mark Action Plan for the 12th five year plan incorporating such novel ventures.

Action Taken

2.10 For replication Mararikulam and Kanjikuzhi model rural markets, retail Market and other marketing infrastructure are being implemented in association with Local Self Government institutions, VFPCCK etc.

Recommendation

(Sl. No. 6, Para No. 39)

2.11 Regarding the audit paragraph on low utilization of funds the Committee feels that if the department had observed a time bound action plan

towards the establishment of post harvest infrastructure facilities as per Government of India norms, the low utilization of Central fund during 2005-09 and consequent shortfall in the release of Central fund to SHM in subsequent year could have been avoided. As the primary processing of farm produce is very essential, the Committee recommends to prepare a detailed project proposal in respect of each crop with its merits and demerits without further delay.

Action Taken

2.12 During 2005-09 the subsidy for Post Harvest Management was only 25% and there after it was enhanced to 50%. Even after the increase of subsidy to 50%, nobody is coming forward to take up the programme. Now proposal is sent to Government to enhance the subsidy to 75%. In Kerala majority is small and marginal farmers and they sell their horticulture produces as such and takes no strain for processing. They are also not having sufficient financial capacity to undertake this project.

Recommendation

(Sl. No. 7, Para No. 40)

2.13 The Committee urges that the department should examine the feasibility of making necessary changes in the AAP for the next year within the frame work of the existing norms considering the peculiarities of Kerala for the maximum utilization of Central fund. It also wants the department to furnish a detailed report regarding the changes to be made in the existing government norms for alleviating the difficulties in the utilization of Central funds.

Action Taken

2.14 The matter has already been taken up with Government of India.

Recommendation

(Sl. No. 8, Para No. 41)

2.15 The Committee observes that one of the main issues faced by the department while implementing projects was the deficiency of labourers. As a solution it recommends that the department should promote innovative labour

institutions such as Land Army, Green Army, Labour Bank etc. for the purpose. The Committee suggests that labourers may be attracted from near by Panchayats by paying adequate wages.

Action Taken

2.16 Department of agriculture has already been taken up the matter through Krishi Bhavans.

Recommendation

(Sl. No. 9, Para No. 42)

2.17 The Committee expresses its dissatisfaction on the overall performance of nurseries, citing the example of the nursery at Pampadumpara where only 6240 plantlets were produced against the target of 4 lakh. The Committee opines that majority of nurseries under the control of Agricultural University are not capable of producing plantlets as per norms, whereas many in the private sector having low facilities reaped lakhs as profit.

Action Taken

2.18 The matter has already been taken up with Kerala Agricultural University.

Recommendation

(Sl. No. 10, Para No. 43)

2.19 The Committee recommends to create a database regarding nurseries under the control of SHM and directs to furnish the status report of those nurseries detailing the functioning, productivity and the best practices followed by them. It also urges to collect the benchmark details of nurseries functioning in Kerala such as variety of cultivation, number of plantlets in each nursery, their total capacity etc. and furnish the same to the Committee.

Action Taken

2.20 Details attached as annexure-I

Recommendation

(Sl. No. 11, Para No. 44)

2.21 Committee also urges that an expert study should be done before selecting nurseries for extending assistance and directs to appraise the Committee about the study as to what changes could be made in the application module for selecting beneficiaries. It also recommends to prepare a detailed project proposal which enables the State Horticulture Mission to extend financial support to existing private nurseries for the specific expansion and submit it to the Central Government.

Action Taken

2.22 National Horticulture Mission has prescribed broad based norms for providing assistance for establishment of nursery. The primary appraisal of the project is done by Technical Officers of State Horticulture Mission and acceptable projects are placed before TSG committee of scientists from Kerala Agricultural University and experts of Agriculture department. The projects cleared by TSG is placed before Executive Committee.

Recommendation

(Sl. No. 12, Para No. 45)

2.23 The Committee understood that the subsidy released to the Tissue Culture Pineapple Suckers became futile as they could not produce the estimated capacity of 50,000 plantlets per year even though five years had elapsed since its formation. The Committee remarks that five year period was sufficient to spread an innovative programme and urges the department to report the circumstances which led the MD2 variety of pineapple turned unpopular among growers. It also directs the department to examine the feasibility of developing new varieties in a time bound manner with the available facility of the Tissue Culture Laboratory at Vazhakulam.

Action Taken

2.24 Even though the experiment proved that MD2 variety can be grown successfully in Kerala conditions, the farmers are reluctant to accept the variety

for commercial cultivation as they are getting more returns from the existing Mauritius variety. MD2 was proposed to be popularized for export purpose.

The mandate of developing new varieties vest with the Kerala Agricultural University and hence the matter is taken up with the University.

Recommendation

(Sl. No. 13, Para No. 46)

2.25 The Committee observes that the Agriculture Department did not have any reliable data about the Horticulture Sector in the State. The details furnished by the Centre for Management Development were contradictory to that of the Economics and Statistics Department. So the Committee instructs that the State Horticulture Mission should initiate effective steps to evolve a uniform methodology to formulate a unique benchmark data in this regard.

Action Taken

2.26 A uniform methodology to formulate a unique benchmark data will be evolved on completion of the total horticulture census which was already started.

Recommendation

(Sl. No. 14, Para No. 47)

2.27 The Committee raises doubts about the figures of assistance extended by SHM to farmers as ₹ 207 crore, when the outlay was only ₹ 160 crore and urges the department to furnish the cropwise details of area taken over by the SHM in each year under the garden expansion scheme along with details of amount disbursed as subsidy. It also recommends that strict measures should be taken to check whether the approved cultivation practices are being followed by the farmers as insisted.

Action Taken

2.28 Year wise details of area taken by State Horticulture Mission for area expansion scheme is attached as annexure II.

The approved cultivation practices are strictly followed.

Recommendation

(Sl. No. 15, Para No. 48)

2.29 The Committee is astonished to know that both State Horticulture Mission and Spices Board of India were providing assistance to the same crop in particular area in a particular period of time. It observes that State Government had no control over the commodity Boards. To curtail such discrepancies the Committee recommends that Agriculture Department should co-ordinate the activities of SHM and Spices Board and fund transaction should as far as possible, be route through Krishi Bhavans rather than issuing them directly to beneficiaries.

Action Taken

2.30 The valuable suggestion of PAC to route all schemes including that of commodity boards viz. Coconut Development Board, Spices Board etc., through Krishi Bhavans rather than to implement the scheme directly has to be taken up with Government and heads of the commodity Board viz. Spices and Coconut Boards to avoid discrepancies in providing assistance to farmers.

Recommendation

(Sl. No. 16, Para No. 49)

2.31 The Committee also notes that Agriculture Department lacks any information regarding organic farming in our state which is currently becoming popular as farming practice to be promoted on a large scale in the context of the reported high toxicity in almost all the food items produced in the existing way of commercial cultivation. It urges the Department to initiate a large role in promoting organic farming in the State and also to furnish the District/Panchayat wise details regarding organic certification, name of the certifying agencies and the agricultural products of this type exported with certificate etc.,

Action Taken

2.32 District wise details of organic Farming carried out is furnished below:

<i>Sl. No.</i>	<i>District</i>	<i>Area (Ha)</i>	<i>Certifying Agency</i>	<i>Crops Exported</i>
1	Idukki	500	Locon	Under going certification process not yet certified
2	Malappuram	250	Locon	
3	Kozhikode	150	Locon	
4	Wayanad	600	Locon	

Recommendation

(Sl. No. 17, Para No. 50)

2.33 The Committee analyzed that the subsidy extended for organic farming was 50 % of total cost for cultivation, which is meagre when compared to the loss incurred during initial years switching over to new mode of cultivation. The Committee observes that the cost of organic farming is very expensive. The price of bio-control agents used in organic farming is not affordable for farmers. The price fixations of organic bio-control agents is unscientific. The Committee evaluates that the claim of the Agriculture Department that Agriculture University is fixing the price of those bio-control agents based on their cost of production is not true. It opines that the Agriculture University does not have any scientific method to fix the price of bio-control agents and the price is being fixed by them arbitrarily that too is followed by organic fertilizer manufacture also and it would not be viable for farmers. In effect, the Committee suspects that, present method of fixing subsidy for bio-control agents is beneficial only for manufacturers and not for the farmers. Therefore the Committee recommends that individual subsidy should be enhanced substantially to meet with the requirements of the farmers. The Committee opines that a mechanism should be evolved to monitor the follow up action of the projects for which subsidy was disbursed.

Action Taken

2.34 As per National Horticulture Mission norms for adopting organic farming for perennial and non perennial fruit crops, aromatic plants, spices etc. Additional assistance will be given @ 50% of cost over and above the area expansion programme limited to ₹ 10,000 per hectare for 4 ha. per beneficiary. Maximum assistance for organic cultivation of vegetable is limited to ₹ 10,000 per ha. spread over a period of three years. Assistance will be used for generating on farms inputs. NHM will also provide financial assistance up to a maximum of ₹ 5 lakh for group of farmers, covering an area of 50 ha., duly recommended by State Government, on a case to case basis, for certification of organic process/produce. The Deputy Directors of Agriculture (H) of concerned districts are doing the monitoring and follow up of organic farming projects coming under State Horticulture Mission- Kerala.

Recommendation

(Sl. No. 18, Para No. 51)

2.35 The Committee remarks that unless organic farming was practiced in contiguous area, the whole efforts become futile and noticing that many farmers were reluctant to continue with the organic farming as the subsidy extended in this regard is insufficient, it recommends that a scheme should be formulated with provisions to assist farmers for infrastructure facilities like land development, irrigation etc, for the area as a whole, where organic farming is carried out under this scheme to catch up with the cultivators in the field. The Committee urges the department to furnish a report incorporating the operational and performance aspects of the bio-control labs functioning in Kerala.

Action Taken

2.36 Steps have already been taken to implement the organic farming scheme in a contiguous area. At present the whole of Kasargode districts (all 41 panchayats) has been selected for organic farming, and in parts of Idukki and Wayanad district. The performance of the State Bio Control Lab., Mannuthy owned by Department of Agriculture is attached in annexure III.

Recommendation

(Sl. No. 19, Para No. 52)

2.37 The Committee expresses its displeasure over the meagre interference of the department in the marketing zone and opines that due to their least attention in the field, middlemen from other states profited in many places. Regarding the plight of the farmers at Vattavada and Kanthalloor, the Committee wants to know whether the proposed Idukki package had been implemented including the above two regions with special attention for production, marketing and exporting of their products. So it recommends formulating a strong marketing strategy with special attention for the primary processing of horticultural products. The Committee suggests that some hygiene standard should be preferred for drying of pepper and drying up to that standard could be provide with certain assistance under primary processing. Therefore it directs the department to examine the feasibility of including primary processing of agricultural products under the post harvesting processing within the prevailing norms of State Horticulture Mission.

Action Taken

2.38 Assistance has already been given for 28 rural markets in various parts of the state. As per G.O(Ms)No.242/2011/AD dated 8-11-2011 sanction was accorded to implement the project on "Development of Cool Season Vegetables in Vattavada and Kanthalloor, Idukki" with a total cost of ₹ 14.993 crore with financial assistance ₹ 11.64 a crore under RKVY funding. The main objective of the project was to give financial & technical assistance for open cultivation to increase the production and productivity and to develop a well defined sustainable market net work system to avoid the middle man exploiting the farmers. Total 136 farmer clusters were formed in both Panchayats with 2665 farmers covering an area of 1500 ha. From these farmers clusters, two adhoc societies (Sheethakala Pachakari Vipanana Sangam) were formed and registered in both Panchayats. An amount of ₹ 6.75 crore has been disbursed through the society as assistance for cultivation in an area of 3000 ha. in three seasons. Hybrid vegetable cultivation could be introduced in 20 ha. For developing marketing infrastructure ₹ 10 lakh has been given as revolving fund to the societies. Two Eicher vehicles also have been purchased and handed over to society for procuring and marketing vegetables.

Purchase order has been issued for 16 nos. of portable diesel operated carrot cleaning machines. Construction of two input centre by VFPCCK is in progress. 1000 MT vegetables has been procured by HortiCorp and VFPCCK from Vattavada and Kanthaloor panchayats. Out of the total amount of ₹ 1164.05 lakh released an amount of ₹ 1009.45 lakh has been expended till date.

Recommendation

(Sl. No. 20, Para No. 53)

2.39 Regarding the assistance for cold storage facility the Committee understood that the farmers were least interested in setting up cold storage as maintenance cost like electricity charges was high. The Committee demands to examine whether electricity charges for operating small scale cold storage could be provided to small scale farmers free of cost.

Action Taken

2.40 As per the existing norms free of cost electricity cannot be provided for purpose other than irrigation and dewatering. Moreover this is not feasible and need not be considered.

Recommendation

(Sl. No. 22, Para No. 55)

2.41 The Committee directs the department to chalk out a unique time frame programme for the expansion of rural marketing outlets by Vegetable and Fruit Promotion Council, Keralam (VFPCCK).

Action Taken

2.42 VFPCCK has already established 28 rural markets with the assistance of State Horticulture Mission-Kerala.

Recommendation

(Sl. No. 23, Para No. 56)

2.43 The Committee concludes that though 8 years had elapsed since the constitution of SHM its achievement is far short of the expectance.

It reminds that unless the funds released by the Government of India were utilized more effectively, fund allocation for the consecutive years would be reduced. So the department should be more vigilant in the planning and utilization of Central assistance in future.

Action Taken

2.44 Strict instructions are given to all concerned including district offices to take maximum effort to expend full allocation. Close monitoring of the activities are also done at the level of Additional Directors and Joint Director.

Thiruvananthapuram,
8th March, 2017.

V. D. SATHEESAN,
Chairman,
Committee on Public Accounts.

APPENDIX I

Summary of Main Conclusion/Recommendation

<i>Sl. No.</i>	<i>Para No.</i>	<i>Department concerned</i>	<i>Conclusion/Recommendation</i>
1	1.3	Agriculture	The Committee opines that if National Horticulture Mission could not undertake the proposal, it could be carried out by the Agriculture Department.

APPENDIX II

ANNEXURE - I
DETAILS OF NURSERIES ESTABLISHED IN KERALA UNDER NHM PROGRAMME FROM 2005-06 TO 2012-13

MODEL NURSERY (PUBLIC)-Each unit of 4 ha

Sl. No.	District	Crop	Year	Name of Unit	Quantity of planting material produced/year
1	Idukki	Floriculture	2006-07	Cardamom Research Station, Pampadumpara	1 lakh planting materials
2	Thrissur	Mango	2006-07	Agricultural Research Station, Mannuthy	2 lakh grafts
3	Thrissur	Cashew	2006-07	Cashew Research Station, Madakkathara	2 lakh grafts
4	Thrissur	Banana	2007-08	Banana Research Station, Kannara, Thrissur	12,000 suckers
5					57,000 hybrid seed pods and about 30,000 hybrid seedlings
6	Thrissur	Cocoa	2010-11	College of Horticulture, KAU, Vellanikkara	
7	Alappuzha	Mango	2007-08	District Agricultural Farm, Mavelikara	20,000 grafts
8	Alappuzha	Tuber crops	2007-08	District Agricultural Farm, Mavelikara	22,000 kg
9	Kannur	Banana	2008-09	District Agricultural Farm, Mavelikara	12,000 suckers
10	Kannur	Cashew	2006-07	Central State Farm, Aralam	2 lakh grafts
11	Kannur	Cashew	2006-07	District Agricultural Farm, Taliparamba	2 lakh grafts
12	Kasargod	Cashew	2008	Plantation Co-operation of Kerala, Kasargod, Estate	2 lakh grafts
13	Kasargod	Mango	2009-10	College of Agriculture, Padanakkad, Kasargod	2 lakh grafts
14	Thiruvananthapuram	Tuber crops	2008-09	Central Tuber Crops Research Institute, Sreekariyam	25,000 kg
15	Thiruvananthapuram	Banana	2007-08	Banana Farm, Peringamala	12,000 suckers
16	Thiruvananthapuram	Minor horticulture crops	2009-10	Instructional Farm, Vellayani, KAU	2.5 lakh
17	Thiruvananthapuram	Mango	2009-10	Instructional Farm, Vellayani, KAU	2.5 lakh
18	Kottayam	Pepper	2007-08	District Agricultural Farm - Kozha	4 lakh cuttings
19	Kottayam	Pepper	2009-10	Regional Agricultural Research Station, Kumarakom	4 lakh cuttings
20	Idukki	Ginger	2005-06	State Vegetable Farm, Vandiperiyar	4000 kg rhizomes

20	Idukki	Pepper	2007-08	State Vegetable Farm, Vandiperiyar	4 lakh cuttings
21	Idukki	Ginger	2007-08	District Agricultural Farm, Arikuzha	3500 kg rhizomes
22	Idukki	Pepper	2008-09	District Agricultural Farm, Arikuzha	4 lakh cuttings
23	Pathanamthitta	Pepper	2007-08	Sugarcane Seed Farm, Pandalam	4 lakh cuttings
24	Wayanad	Pepper	2005-06	Regional Agricultural Research Station, Amabalavayal	4 lakh cuttings
25	Malapuram	Cashew	2007	Cashew Research Station, Anakayam	2.5 lakh grafts
26	Kollam	Pepper	2007-08	District Agricultural Farm, Anchal	396000 cuttings
27	Kollam	Cashew	2009-10	Cashew Factory Compound, Kottiyam, Kerala State Agency for Cashew Cultivation, Kollam	2.5 lakh grafts
28	Kollam	Cashew	2010-11	Cashew Farm, Kottarakkara	2 lakh grafts
29	Palakkad	Minor horticulture crops	2010-11	Orange and Vegetable Farm, Nelliampathy Superintendent, District Agricultural Farm, Peringamala	4 lakh plantlets
30	Thiruvananthapuram	Mixed Crops	2011-12	Seed Garden Complex, Munderi, Malappuram	50,000 plantlets
31	Malappuram	Mixed Crops	2011-12	Seed Garden Complex, Munderi, Malappuram	Production yet to start
32	Malappuram	Mango	2011-12	Sugar Cane Seed Farm, Pandalam, Konni unit	Production yet to start
33	Pathanamthitta	Mixed Crops	2011-12	Regional Agricultural Research Station, Pattambi	Production yet to start
34	Palakkad	Mango	2011-12		Production yet to start
35	Thrissur	Mixed Crops	2012-13		Production yet to start

MODEL NURSERY (PRIVATE) - Each unit of 4 ha

Sl. No.	District	Crop	Year	Name of Unit	Quantity of planting material produced/year
1	Wayanad	Pepper	2005-06	P.T Latha, Lathalayam, Mananthavady	60,000 cuttings
				U. Radhakrishanan, Ushas, Charitty, Vythiry	60,000 cuttings
				T.C John, Tharappel Nursery, Chulliyode, S. Bathery	60,000 cuttings
2	Kannur	Pineapple	2007-08	Kallivayalli Nursery,(Michael George) Kolayad	60,000 suckers
3	Palakkad	Banana	2009-10	Michal George, Kallivayalil cort road, Thalassery, Agali, Palakkad	12,000 suckers
4	Palakkad	Banana	2009-10	C.B Salivan, S/o Bahulayan, 311/A, Aksara, Edathara P.O, Palakkad	12,000 suckers
5	Palakkad	Banana	2010-11	N. Sundrara Moorthi, Iialabagavathikaavu, Thathamangalam P.O, Chiituro, Palakkad dsitric	12,000 suckers
6	Thiruvananthapuram	Mixed crops	2011-12	Shri. M. Shamsudeen Kunju, S.S Cottage, Pallivetta, Aryanad P.O, Thiruvanthapuram	12,000 Plantlets
7	Kottayam	Mixed crops	2012-13	Mr. Jose Jacob, Home Grown Farm & Nursery Pvt, Vizhikkathodu, Kanjirappally	

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Recommendation

(Sl. No. 20, Para No. 53)

2.39 Regarding the assistance for cold storage facility the Committee understood that the farmers were least interested in setting up cold storage as maintenance cost like electricity charges was high. The Committee demands to examine whether electricity charges for operating small scale cold storage could be provided to small scale farmers free of cost.

Action Taken

2.40 As per the existing norms free of cost electricity cannot be provided for purpose other than irrigation and dewatering. Moreover this is not feasible and need not be considered.

Recommendation

(Sl. No. 22, Para No. 55)

2.41 The Committee directs the department to chalk out a unique time frame programme for the expansion of rural marketing outlets by Vegetable and Fruit Promotion Council, Keralam (VFPCCK).

Action Taken

2.42 VFPCCK has already established 28 rural markets with the assistance of State Horticulture Mission-Kerala.

Recommendation

(Sl. No. 23, Para No. 56)

2.43 The Committee concludes that though 8 years had elapsed since the constitution of SHM its achievement is far short of the expectance.

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				U. Radhakrishanan, Ushas, Charitty, Vythiry	60,000 cuttings
				T.C John, Tharappel Nursery, Chuliyode, S. Bathery	60,000 cuttings
2	Kannur	Pineapple	2007-08	Kallivayalli Nursery,(Michael George) Kolayad	60,000 suckers
3	Palakkad	Banana	2009-10	Michal George, Kallivayalil cort road, Thalassery, Agali, Palakkad	12,000 suckers
4	Palakkad	Banana	2009-10	C.B Salivan, S/o Bahulayan, 311/A, Aksara, Edathara P.O, Palakkad	12,000 suckers
5	Palakkad	Banana	2010-11	N. Sundrara Moorthi, Iialabagavathikaavu, Thathamangalam P.O, Chiitir, Palakkad dsitric	12,000 suckers
6	Thiruvananthapuram	Mixed crops	2011-12	Shri. M. Shamsudeen Kunju, S.S Cottage, Pallivetta, Aryanad P.O, Thiruvanthapuram	12,000 Plantlets
7	Kottayam	Mixed crops	2012-13	Mr. Jose Jacob, Home Grown Farm & Nursery Pvt, Vizhikkathodu, Kanjirappally	

SMALL NURSERY (PUBLIC) - Each unit of 1 ha

Sl. No.	District	Crop	Year	Name of Unit	Quantity of Planting material produced/year
1	Ernakulam	Pineapple	2005-06	Pineapple Research Station, Vazhakulam	60,000 suckers
2	Ernakulam	Pineapple	2006	Nadukkara Agro Processing Co. Ltd. (NAPCI), Muvattupuzha	60,000 suckers
3	Ernakulam	Floriculture	2005-06	District Agricultural Farm, Neriya Mangalam	60,000 seedlings
4	Ernakulam	Floriculture		State Seed Farm, Okkal	55,000 seedlings
5	Ernakulam	Floriculture		State Seed Farm, Aluva	55,000 seedlings
6	Ernakulam	Turmeric	2006-07	District Agricultural Farm, Neriya Mangalam	4,000 kg
7	Ernakulam	Mushroom Spawn production	2007-08	Vegetable and fruit promotion council, Keralam, Mythri bhavan, Kakkanad, Kochi	4,500 kg spawn
8	Alappuzha	Pepper	2005-06	District Agricultural Farm, Mavelikara	4 lakh cuttings
9	Alappuzha	Anthurium	2005-06	District Agricultural Farm, Mavelikara	40,000 seedlings
10	Alappuzha	Nutmeg	2006-07	District Agricultural Farm, Mavelikara	5000 nos. of grafts
11	Alappuzha	Anthurium	2005-06	District Agricultural Farm, Mavelikara	60,000 seedlings
12	Alappuzha	Mushroom	2008	Onattukara Regional Agricultural Research Station, Kayamkulam	4,500 kg of spawn
13	Alappuzha	Minor horti. crops	2007-08	District Agricultural Farm, Mavelikara	75,000 grafts
14	Alappuzha	Mushroom	2008	Rice Research Station, Moncompu	4,500 kg of spawn
15	Kollam	Cashew	2009-10	District Agricultural Farm, Anchal	40,000 nos. grafts
16	Kottayam	Mushroom	2007	Regional Agricultural Research Station, Kumarakom	4,500 kg of spawn
17	Kottayam	Turmeric	2006-07	District Agricultural Farm, Kozha	3,500 kg rhizomes
18	Kottayam	Ginger	2006-07	District Agricultural Farm, Kozha	4,000 kg rhizomes
19	Kottayam	Minor horti. crops	2007-08	District Agricultural Farm, Kozha	80,000 grafts
20	Kottayam	Pineapple	2006-07	District Agricultural Farm, Kozha	60,000 suckers
21	Kottayam	Floriculture	2007-08	District Agricultural Farm, Kozha	60,000 seedlings
22	Kottayam	Pineapple	2007-08	District Agricultural Farm, Kozha	12,000 suckers

23	Kottayam	Banana	2007-08	District Agricultural Farm, Kozha	12,000 suckers
24	Thrissur	Pepper	2006-07	Krishi Vigyan Kendra, Thrissur	4 lakh cuttings
25	Thrissur	Banana	2007-08	District Agricultural Farm, Chelakkara	12,000 suckers
26	Thrissur	Ginger	2007-08	State Seed Farm, Pazhayannur	4,000 kg rhizomes
27	Thrissur	Floriculture	2010-11	Agronomic Research Station, Chalakudy	50,000 seedlings
28	Thrissur	Nutmeg	2009-10	Agronomic Research Station, Chalakudy	60,000 grafts
29	Thrissur	Minor horti.crops	2009-10	Agronomic Research Station, Chalakudy	75,000 grafts
30	Palakkad	Gooseberry	2005-06	ISDF, Eruthenpathy	60,000 grafts
31	Palakkad	Pineapple	2006-07	Regional Agricultural Research Station Pattambi	11,000 suckers
32	Palakkad	Ginger	2005-06	HDF Malampuzha	2.033 tonnes
33	Palakkad	Ginger	2006-07	ISDF, Eruthenpathy	6.02 tonnes
34	Palakkad	Ginger	2006-07	0.5 ha SSF, Konkad, 0.5 ha SSF, Muthalamada	1.5 tonnes 2.0 tonnes
35	Palakkad	Turmeric	2007-08	ISDF, Eruthenpathy	3,500 kg rhizomes
36	Kozhikode	Mango	2005-06	District Agricultural Farm, Koothali	40,000 grafts
37	Wayanad	Mango	2006-07	Regional Agricultural Research Station, Ambalavayal	40,000 grafts
38	Wayanad	Ginger	2006-07	Regional Agricultural Research Station, Ambalavayal	4 tonnes rhizomes
39	Wayanad	Mushroom	2007	Vegetable and fruit promotion council, Keralam, VFPC, Mythri bhavan, Kakkanad, Kochi	5000 kg spawn
40	Malappuram	Mushroom	2008	Krishi Vigyan Kendra, Tavanur, Malapuram	795 packets of Mushroom spawns
41	Malappuram	Pepper	2008	Cashew Research Station, Anakkayam	60,000 cuttings
42	Malappuram	Cashew	2007	Seed Garden Complex, Munderi	40,000 grafts
43	Malappuram	Cashew	2010-11	District Agricultural Farm, Chungathara	40,000 grafts
44	Malappuram	Pepper	2010-11	Coconut Nursery, Parappanagadi	4 lakh cuttings
45	Malappuram	Pepper	2010-11	District Agricultural Farm, Chungathara	4 lakh cuttings
46	Kasargode	Mushroom	2007	Regional Agricultural Research Station, Pilicode	5000 kg spawn

47	Kasargode	Pepper	2008-09	State Seed Farm, Pullur, Kasargod	4 lakh cuttings
48	Kasargod	Banana	2009-10	State Seed Farm, Kasargod	12,000 suckers
49	Kasargode	Minor Horticulture Crops	2010-11	College of Agriculture, Padannakkad, Nileshwar	14,000 nos of grafts of Sapota
50	Idukki	Pepper	2005-06	State Vegetable Farm, Vandiperiyar	60,000 cuttings
51	Idukki	Pepper	2006-07	Cardamon Research Station, Pampadumpara	60,000 cuttings
52	Idukki	Pepper		Bapooji Krishi Vigyan Kendra	60,000 cuttings
53	Idukki	Nutmeg	2005-06	District Agricultural Farm, Areekkuzha	30,000 graft
54	Idukki	Ginger	2006-07	District Agricultural Farm, Areekkuzha	9,000 kg rhizomes
55	Idukki	Ginger	2006-07	State Vegetable Farm, Vandiperiyar	10,000 kg rhizomes
56	Idukki	Mushroom	2007-08	Bapooji Krishi Vigyan Kendra	5000-6000 kg spawn
57	Pathanamthitta	Mushroom	2007	CARD- Krishi Vigyan Kendra,	5000-6000 kg spawn
58	Pathanamthittá	Minor Horticulture crops	2008-09	CARD- Krishi Vigyan Kendra,	65,000 grafts
59	Kannur	Ginger	2006-07	Krishi Vigyan Kendra, Panniyur	11,000 kg rhizomes
60	Kannur	Pineapple	2009-10	Pepper Research Station, Panniyur, PO. Kanhirangad, Karimbam, Taliparambra, Kannur,	11,000 suckers
61	Kannur	Mushroom	2009-10	Krishi Vigyan Kendra, Panniyur, P.O, Kanhirangad, Karimbam, Taliparambra	5000-6000 kg spawn
62	Thiruvananthapuram	Mushroom	2007	KVK, MitraNiketan, Vellanad	Above 20,000 spawns of oyster and milky mushrooms
63	Thiruvananthapuram	Pepper	2008-09	Coconut Research Station, Balaramapuram	60,000 cuttings
64	Thiruvananthapuram	Banana	2009-10	Coconut Research Station, Balaramapuram	7,500 suckers
65	Thiruvananthapuram	Mushroom	2008-09	Coconut Research Station, Balaramapuram	6000 kg spawn
66	Thiruvananthapuram	Pepper	2009-10	KVK, MitraNiketan, Vellanad	60,000 cuttings
67	Kozhikode	Mushroom Spawn production	2009-10	EEC Market, Vengeri, Kozhikode	6000 kg spawn
68	Kollam	Mixed Horticultural Crops	2010-11	The Kerala Agro industries corporation.ltd-Punalur	50,000 planting materials
69	Kollam	Cashew	2009-10	KSCDC Cashew Factory Compound Puthur	

70	Kollam	Cashew	2009-10	KSCDC Cashew Factory Compound, Kannanallur
71	Kollam	Cashew	2009-10	KSCDC Cashew Factory Compound, Chathanur
72	Kollam	Cashew	2009-10	Kerala Agriculture University-FSRS, Sadandapuram, Kottarakkara
73	Kollam	Cashew	2009-10	Kerala State Cashew Workers Apex Industrial Co- operative Society Limited., (CAPEX), Kollam Location: : CAPEX Factory Perumbuzha, Kollam
74	Alappuzha	Cashew	2009-10	KSCDC Cashew Factory Compound, Karimulackal
75	Alappuzha	Cashew	2009-10	District Agriculture Farm, Mavelikkara
76	Alappuzha	Cashew	2009-10	Mannancherry Grama Panchayat Location: : Komalapuram Spinning & Weaving Mills Compound
77	Alappuzha	Cashew	2009-10	Kanjikkuzhi Grama Panchayat Location: :A.S Canal Bank
78	Kozhikode	Cashew	2009-10	KSCDC Go down Compound, Chompala
79	Kasargod	Cashew	2009-10	Plantation Corporation of Kerala Limited (PCK), (A Govt. of Kerala Undertaking), Kottayam Location: : PCK Chimeni Estate
80	Kasargod	Cashew	2009-10	PCK Rajapuram Estate, Kasargod
81	Ernakulam	Cashew	2009-10	District Agriculture Farm, Neriamangalam
82	Thiruvananthapuram	Cashew	2009-10	Kerala Forest Development Corporation Limited (KFDC), Kottayam.(A Govt. of Kerala Undertaking), KFDC Thiruvananthapuram Division Location: Anakkulam
83	Kollam	Mixed crops	2011-12	Cashew Farm, Kottarakkara
84	Kasargod	Banana	2009-10	State Seed Farm, Kasargod

SMALL NURSERY (PRIVATE) - Each unit of 1ha

Sl. No.	District	Crop	Year	Name of Unit	Quantity of Planting material produced/year
1	Thiruvananthapuram	Banana	2006-07	Shein Money.M, Malikavila Puthenveedu, Mariyapura	7,500 suckers
2	Thiruvananthapuram	Banana	2006-07	Kulathukal Banana Nursery	7,500 suckers
3	Thiruvananthapuram	Banana	2006-07	Parankimavila Nursery, Vadakkumpuram, Pazhayakunnummel	7,500 suckers
4	Thiruvananthapuram	Banana	2007-08	Sri. Shiva Sankaran Nair, Kulathukal Banana Nursery, Aruvikara, Thiruvananthapuram dist.	7,500 suckers
5	Thiruvananthapuram	Banana	2007-08	Sri. Abdul Aziz, Parankimavila Nursery, Vadakkumpuram, Pazhayakunnummel, Thiruvananthapuram dist.	7,500 suckers
6	Thiruvananthapuram	Banana	2008-09	Manikantan Nair, Padmanabha Mandiram, Govinda Mangalam, Ooruttambalam P.O, Malayinkeezhu,	7,500 suckers
7	Thiruvananthapuram	Banana	2009-10	P. Biju, Thazhamvila Veedu, Keezhkolla, Kudumbottykonam, Vattavila P.O, Chenkal, Thiruvananthapuram	7,500 suckers
8	Thiruvananthapuram	Pepper	2008-09	Mohanani Nair, Madusoodana Vilasam, Pothupana	60,000 cuttings
9	Thiruvananthapuram	Pepper	2008-09	Manibai, Asathy, Konchira, P.O	60,000 cuttings
10	Thiruvananthapuram	Mushroom	2007-08	Smt. S. Janaky, Swadhishta Mushrooms, P.T.P Nagar, Trivandrum	6000 kg spawn
11	Thiruvananthapuram	Mushroom	2007-08	Shri. N. Aravindakshan, Thunduvilla house, Ayroor, Varkala	5000 kg spawn
12	Thiruvananthapuram	Mushroom	2007-08	Smt.Latha Menon, Aswathy Mushroom, Vazhuthacaud, Trivandrum	5000 kg spawn
13	Thiruvananthapuram	Mushroom	2007-08	Deepthi Social Welfare Centre, Meenankal, Trivandrum	5000 kg spawn
14	Thiruvananthapuram	Mixed crops	2010-11	St. Johns Health Services, Pirapanacode	
15	Alappuzha	Banana	2006-07	Grama Jyothi Swayam Sahaya Sangham, Thekkekkara Krishi Bhavan,	8500 suckers

				Self employment Society, Vallikulam, Mavelikara & Shri. Alan Sebastian, Kunnel, Thiuniyala Bhagam, Thuravoor P.O Alappuzha	
16	Alappuzha	Banana	2006-07		7,500 suckers
17	Alappuzha	Banana	2007-08	Sree Bhadra Kudumasree Group, & Athulya Kudumasree group Thekkekkara Krishi Bhavan	5000 suckers
18	Alappuzha	Floriculture	2006-07	Mr. P.C Varghese, Ambalkandathil House, Kalavoor, Alleppey	Bush Jasmine-125,000 Bud Rose-1,000, Hibiscus Hawain grafts-1000 Nos. Anthurium-1000 nos.
19	Alappuzha	Nutmeg	2005-06	District Agricultural Farm, Mavelikkara	32,000 grafts
20	Pathanamthitta	Banana	2007-08	Ambi, Mekkattu, Vakayar, Konni	30,000 suckers
21	Pathanamthitta	Banana	2007-08	A. Phillip, Muttarvilla, Murenjakal P.O, Konni	30,000 suckers
22	Pathanamthitta	Pineapple	2007-08	Saju Paulose, Parakkal Veedu, Murikkassery, Naranamoozhy, Ranni, Pathanamthitta	52,000 suckers
23	Pathanamthitta	Pineapple	2007-08	Mathew Varkey, Puthenpurakkal, Ranni, Angadi, Pathanamthitta	54,000 suckers
24	Pathanamthitta	Pineapple	2007-08	Joshi George, Thachiladathu veedu, Perunadu P.O, Ranni,	58,000 suckers
25	Pathanamthitta	Mushroom	2007-08	Shri. Mathan Cherian, Hi-Land Mushrooms, Seethathode, Pathanamthitta	5000 kg spawn
26	Pathanamthitta	Medicinal plants	2007-08	Shri Darwin P Mathew, Mundanpara, Gurunathanamnu, Pathanamthitta	50,000 seedlings
27	Kasargod	Cashew	2006	Kakkanath Nursery, Kanhiradkam, Pullur-Periyar, Kudayathur	2 lakh grafts
28	Kasargod	Pineapple	2007-08	Mathew Jose, Valiya Veetil, Paramba, W. Eleri, Kasargode	54,000 suckers
29	Kasargod	Banana	2009-10	Bincy Biji, W/o Biji Mathew, Shennikkode, Permude, Puthige Krishi Bhavan	8500 suckers
30	Kasargod	Banana	2009-10	Sniya Jacob, D/o Jacob, Chennikode, Permude, Puthige krishi Bhavan	8500 suckers
31	Kasargod	Banana	2009-10	K. Shyama Prasad, S/o K.S. Subrahmanya bhat, Sri Shaila, Pernae, Edanad, Puthige Krishi Bhavan	8500 suckers
32	Kasargod	Banana	2009-10	Sri. Shaila, Pernae, Edanad, K.B. Puthige	8500 suckers

33	Kasargod	Pepper	2009-10	Jose Thomas, Uzhatinal, P.O Punnokunnil, Vellarikundu Krishi Bhavan, West Eleri	60,000 cuttings
34	Kasargod	Pepper	2009-10	Issa, C. Louis, Ozhukayil (H) Vellarikundu Krishi Bhavan, Balal	60,000 cuttings
35	Kasargod	Pepper	2009-10	Abdul Rahiman, Arimala (H), Badajac P.O Manjeshwar Krishi bhavan	60,000 cuttings
36	Kasargod	Pepper	2009-10	Santhosh, Thottumakkal Darbe, Meeypadavu, Meeja Krishi Bhavan	60,000 cuttings
37	Kasargod	Pepper	2009-10	E. Muralidharan, Mayyankayam, Kanathur Muliya Krishi Bhavan	60,000 cuttings
38	Kasargod	Pepper	2009-10	Thomas Alingal Karivedakam, Kuttikole Krishi Bhavan	60,000 cuttings
39	Kasargod	Pepper	2009-10	Shaji Verunikkal, Urdoor P.O Delampady P.O	60,000 cuttings
40	Kasargod	Pepper	2009-10	Sri. Ratan Kumar Naik, Palakochi, P.O Pandya, K.B Delampady,	60,000 cuttings
41	Kasargod	Pepper	2009-10	Sri. K.P Bharathan, S/o Kannan Ayyankavu, P.O Parakkalayi, Anandashramam K.B Kodom Belur	60,000 cuttings
42	Kasargod	Pepper	2009-10	Sri. Thomas Alingal, P.O Karivedakam, K.B Kuttikole	60,000 cuttings
43	Kasargod	Floriculture	2009-10	M/s Jenny Flowers International Aingoth, Padannakkad, Kanhangad	50,000 planting material
44	Palakkad	Ginger	2006-07	Mohanam, Poongode, Thathamangalam, Chittur	4,000 kg rhizomes
45	Palakkad	Ginger	2007-08	Gokuldas Kalymkulam, Chithali Kuzhaimannam	4,000 kg rhizomes
46	Palakkad	Ginger	2009-10	V. Vishnudas, Oravukulam, Pattenchery	4,000 kg rhizomes
47	Palakkad	Mushroom	2009-10	Alohisious, S/o Mathai, Anakkal, Pudur, Palakkad	5000 kg spawn
48	Palakkad	Pepper	2006-07	Krishnakutty, Kodyazhikath house, Pirayiri, Palakkad	70,000 cuttings
49	Palakkad	Banana	2009-10	Micheal George, Kallivayalli nursery, Padavayalil, Pudur	8500 suckers
50	Kannur	Pepper	2006-07	Simon's Govt. approved Nursery, Peringome	60,000 cuttings
51	Kannur	Pepper	2006-07	National Oasis Garden, Padiyur	60,000 cuttings

52	Kannur	Pepper	2006-07	Matha Pepper, Ulickal	60,000 cuttings
53	Kannur	Pepper	2006-07	Sreelakshmi Nursery, Koodali	60,000 cuttings
54	Kannur	Pepper	2006-07	U. Shabna, Thanal medical & Agro Nursery Society, Cheruvancheri	60,000 cuttings
55	Kannur	Pepper	2007-08	K.K. Rajeevan, Mayyil	60,000 cuttings
56	Kannur	Pepper	2008-09	Mini Mathew, National Oasis Garden, Padiyur, Kannur	60,000 cuttings
57	Kannur	Pepper	2008-09	Shaji Mathew, Matha Pepper, Ulickal, Kannur	60,000 cuttings
58	Kannur	Pepper	2008-09	B. Anoop, Sreelakshmi Nursery, Koodali, Kannur	60,000 cuttings
59	Kannur	Cashew	2006-07	Saji mon. M.A. Payam	2 lakh grafts
60	Kannur	Cashew	2006-07	Kallivayalli nursery, Kolayad	2 lakh grafts
61	Kannur	Pineapple	2007-08	Janaki Amma, Keezhallur	50,000 suckers
62	Wayanad	Ginger	2005-06	Alavi, Mattil H, Kalpetta.P.O	4,000 kg rhizomes
				M.D. Padmaraju, Mathothu H, Anchukunnu	4,000 kg rhizomes
				T.D. Paulose, Thondiparambil, Kayakunnu, Panamaram	4,000 kg rhizomes
				Thomas. K.P., Kurichath, Achanahally	4,000 kg rhizomes
				K.J. Sebastian, Vengoor, Kupaddi. P.O	4,000 kg rhizomes
63	Wayanad	Turmeric	2005-06	Benoy, Poykayil H, Arambattakunnu	2,000 kg rhizomes
				Kunghan, Mathirikkal, Madakkunnu	2,000 kg rhizomes
				Abdhu, Kunnakath H, Kottathara	2,000 kg rhizomes
				Jalendra Prasad, Pavan Nilayam, Kottathara	2,000 kg rhizomes
				V.C. Modhu Haji, Vyshyan, Kottathara	2,000 kg rhizomes
				K. Ibrahim Haji, Kunchoth H, Kottathara	2,000 kg rhizomes
				Pathukutti, Kuringharath H, Kottathara	2,000 kg rhizomes
				Manoj Abraham, Moolamthadathil H, Kottathara	2,000 kg rhizomes
64	Wayanad	Pepper	2006-07	P. V. Antony, Padinjarevil, Ambalavayal	60,000 cuttings
65	Wayanad	Pepper	2006-07	Saheera Soopy, Aluva.H Vellamunda	60,000 cuttings
66	Wayanad	Pepper	2006-07	Rajan.K. Karipellil, Thavinhal, Thalapuzha	60,000 cuttings
67	Wayanad	Ginger	2006-07	Shaju.A.J., Ayaniveetil, Panamaram	4,000 kg rhizomes
68	Wayanad	Ginger	2006-07	Rajan. Thunthel Padichira	4,000 kg rhizomes

69	Wayanad	Ginger	2006-07	Manoj, Vallathu, Perikalloor	4,000 kg rhizomes
70	Wayanad	Ginger	2006-07	Hamza, Mettmadan, Kaniyambetta	4,000 kg rhizomes
71	Wayanad	Ginger	2006-07	Jayan V.Edakkunnu, Kottur, Vaduvanchal	4,000 kg rhizomes
			2006-07	Yousaf.P, Padiyath H, Cheenapullu, Vaduvanchal	4,000 kg rhizomes
			2006-07	Unnikrishanan, Cholakkal, Cheenghavallam, Narikumndu.PO	4,000 kg rhizomes
			2006-07	A.K.Sathush, Alakkattumali, Kidanganadu.PO	4,000 kg rhizomes
72	Wayanad	Ginger	2006-07	Jaison Jacob, Nirapath, Moolankavu PO	4,000 kg rhizomes
			2006-07	Paul Scaria, Alungal, Noolpuzha PO.	4,000 kg rhizomes
			2006-07	Varghese Chakkalakkal, Cheeyambam	4,000 kg rhizomes
73	Wayanad	Ginger	2006-07	George, Mandapathil, Mullankolly	4,000 kg rhizomes
			2006-07	Paul.M.J., Madavath. H Thonichal Nallornadu	4,000 kg rhizomes
74	Wayanad	Ginger	2006-07	Shinto Varghese, Narialil, Mananthavady	4,000 kg rhizomes
			2006-07	K.M.George, Karakkattu H, Kammana PO, Mananthavady	2,000 kg rhizomes
75	Wayanad	Turmeric	2006-07	Padmaraj, Mavandi, Karachal	2,000 kg rhizomes
76	Wayanad	Turmeric	2006-07	Subaida, Chalappurath, Pottenkolly, Kalathuvayal	2,000 kg rhizomes
			2006-07	P.S.John, Puthanpurayil, Kalathuvayal	2,000 kg rhizomes
			2006-07	M.P.Joseph, Mulluparambil, Kalathuvayal	2,000 kg rhizomes
			2006-07	M.A.Antony Mathalikunnel, Thrissilery	4,000 kg Rhizomes
77	Wayanad	Turmeric	2006-07	Nancy, Aluvailaveed, Thalapuzha	4,000 kg Rhizomes
78	Wayanad	Turmeric	2006-07	James.K.C Kodikulath H Vanhode, Wayanad	4,000 kg Rhizomes
79	Wayanad	Turmeric	2008-09	Muraleedhran.V.O., Varikayil Othayode Alattil PO	4,000 kg Rhizomes
80	Wayanad	Turmeric	2009-10	P.Balakrishnan. Pambalath H, Valluvady, S.Bathery	60,000 cuttings

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				K.J.Chacko, Kulambally Nursery Ambalavayal	60,000 cuttings
		2008-09		P. Sree Nivasan, Green Nursery, Mananthavady, Wayanad Dist	60,000 cuttings
		2009-10	Pepper	Green valley Karashaka Sangam Chundakkara	60,000 cuttings
85	Wayanad	2009-10	Pepper	Great Infarm Swasraya Sangam, Kottanad, Meppadi	60,000 cuttings
86	Wayanad	2009-10	Pepper	Benny Vellaramkalayil, Thariode	60,000 cuttings
87	Wayanad	2010-11	Pepper	Jessy Chacko, Kulambally Nursery, Ambalavayal	60,000 cuttings
88	Wayanad	2007-08	Ginger	Ramachandran. A.K,Souparnika, Thalappuzha	4,000 kg Rhizomes
89	Wayanad	2008-09	Ginger	1. Sabu Sebastian, Padichira, Wayanad 2. Rosamma Joy, Mavara H, Mullankolly, Wayanad Dist	4,000 kg Rhizomes
90	Wayanad	2009-10	Ginger	Dominic Mathew, Thuruvelikkunnel, Puzhamudi	4,000 kg Rhizomes
91	Wayanad	2009-10	Ginger	Biju Olikkal, Vanhode	4,000 kg Rhizomes
92	Wayanad	2009-10	Ginger	1. Shaji Joesph, Pullattu H, Padichira, Wayanad Dist 2. Shine Issac, Kaduppi H, Padichira	4,000 kg Rhizomes
93	Kottayam	2007-08	Mushroom	Wonder mushroom, Felix Mathew, Ponkunnam	5,000 kg spawn
94	Kottayam	2007-08	Pepper	Jose. C. Kallor, (President)Mundakkayam, Kurumulaku Samrakshana samithy, Mundakkayam, Kottayam dist.	60,000 cuttings
95	Kottayam	2007-08	Tuber crops	Zachariah Cyriac, Kattakkayam, Chakkampuzha, Ramapuram, Kottayam Dist	
96	Kottayam	2009-10	Floriculture	Akshaya Flori Club and Floral Nursery, Eiamkadu P.O, Kottikkal, Kanjirappally Block, Kottayam	45,000 planting material
97	Kottayam	2009-10	Nutmeg	Arun Mathew, Kinattukara Nutmeg Plantations,Pinnakkanadu P.O, Kalaketty,Kottayam	35,000 planting materials
98	Kottayam	2009-10	Nutmeg	Tom Antony, Cherippurath Nursery, Chengalam, Kottayam	10,000 planting materials

No.	District	Crop	Year	Name of Unit	Quantity of Planning material produced/Year
99.	Thrissur	Banana	2007-08	Kodikkara	30,000 Suckers
100.	Thrissur	Banana	2008-09	Banana Nursery, Mala	30,000 Suckers
101.	Thrissur	Banana	2008-09	Padmanabhan, Vadakkekara House, Kadangode.P.O., Wadakkanchery	30,000 suckers
					30,000 suckers
102.	Thrissur	Banana	2008-09	Banana Nursery, Mala	30,000 suckers
103.	Thrissur	Banana	2008-09	Banana Nursery, Mala	30,000 suckers
104.	Thrissur	Banana	2009-10	1. K.C. Ouseph, Kannampilly, Edayatooor, Annamanada.P.O., Thrissur Dist.	30,000 suckers
				2. Mercy Antony, Kudilingal, Kumbidi, Poovathussery, Thrissur.Dist.	
				3. K.E. Mathai Karamparambath parthadan, Elavoor (P.O.), Thrissur Dist.	
				4. G.D.Thomas, Gouram, Mambra.P.O, Thrissur Dist.	
				5. K.V.Jose, Kuttiuzhakkara, Palliseri, Annamanada, Thrissur.Dist.	
				6. M.T. Jose Mampully house, Kumbidi, Poovathassery, Thrissur Dist.	
105.	Thrissur	Banana	2009-10	1. Kunjappan, Vettilatil, Annamanada, Thrissur Dist.	30,000 suckers.
				2. Ouseph, Thevallypilly, Alathoor, Annamanada, Thrissur Dist.	
				3. K.P.Babu, kanichapampil, Annamanada, Thrissur Dist.	
				4. Jose, Kunnathuparambil, Vennoore, Thrissur Dist.	
				5. C.A.Nazeer, Chenkara house West Koratty, Annamanada, Thrissur Dist.	
				6. Balakrishnan Menon, Vellayikuddath, Velor, Annamanada, Thrissur Dist.	
106.	Thrissur	Banana	2009-10	1. Rajan.P.P, Poovathingal, Mullookara, Thrissur Dist	30,000 suckers
				2. Hariharan.T.R., Thaladikunnath, Irunilamkode, Mullookara, Thrissur Dist	
				3. Prasad.V., Velakathara Veedu, Irunilamkode, Mullookara, thrissur Dist.	
				4. Manoharan./P.K. Poorambil Veedu, Irunilamkode, Mullookara, Thrissur Dist.	
				5. Sasidharan.P.K, Pooparambil Veeuu, irunilamkode, Mullookara, Thrissur Dist.	

				Mulloorkara, Thrissur Dist 4. Mancharan.P.K,Pooparambil veedu, Irunnilamkode, Mulloorkara, Thrissur Dist 5. Sasidaran.P.K,Pooparambil Veedu, Irunnilamkode, Mulloorkara, Thrissur Dist	
107	Thrissur	Banana	2009-10	Aiswaraya Swasraya Sahaya Samithi, Athani, Mundathikode, Thrissur	30,000 suckers
108	Thrissur	Banana	2009-10	Abhin.V.Symon, Vazhapally(H),Mangod, W Mangode(PO), Chowannur, Thrissur Dist	30,000 suckers
109	Thrissur	Banana	2009-10	C.A.Padmavathi,Kottavappatu, Nongallur,Akkikavu, Kadangodu, Wadakkanchery, Thrissur	30,000 suckers
110	Thrissur	Floriculture	2009-10	M.T Sunny, Melittu Palathingal house, Thandilam road, Velur, Wadakkancherry, Thrissur	30,000 suckers
111	Thrissur	Mushroom	2009-10	Biju Francis, Alankarath House, Pulloot P.O, Kodungallur, Thrissur Dist	5,000 kg spawn
112	Ernakulam	Pineapple	2006-07	Kalloorkad Krishi Bhavan	50,000 suckers
113	Ernakulam	Pineapple	2006-07	Green garden, Amballor	50,000 suckers
114	Ernakulam	Pineapple	2007-08	1. Pineapple Nursery, Vengoor, Perumbavoor, Ernakulam dist 2. Pineapple Nursery, Mudakuzha, Perumbavoor, Ernakulam dist	50,000 suckers
115	Ernakulam	Pineapple	2007-08	Pineapple Nursery, Manjalloor, Muvattupuzha	50,000 suckers
116	Ernakulam	Flower	2007-08	Malekudy Nursery, Thrikkakara, Nandanam, Edavanakad	40,000 planting materials
117	Ernakulam	Banana	2007-08	Banana Nursery, Puthenvelikara, Nedumbassery,Ernakulam dist	30,000 suckers
118	Ernakulam	Turmeric	2007-08	Turmeric Nursery, Vengoor, Perumbavoor, Ernakulam dist	4,000 kg Rhizome
119	Idukki	Ginger	2005-06	Sri Das Mathew,Ananthan Kattu,ValliyathovalaP.O, Kattapana	4,000 kg Rhizome
120	Idukki	Ginger	2005-06	Thomas Sebastian, Kuthyanickal, Erattayar P.O	4,000 kg Rhizome
121	Idukki	Ginger	2005-06	P.J.Kuriyan, Pannel, ValliyathovalaP.O	4,000 kg Rhizome
122	Idukki	Ginger	2005-06	P.C.Mohanani, President-Friends SHG, Erattayar	4,000 kg Rhizome

123.	Idukki	Ginger	2006-07	Krishnankutty, Manalayil Muthamoady, Mathaipara	4,000 kg rhizome
124.	Idukki	Ginger	2006-07	Abraham, Kottarickal, Upputhara	4,000 kg rhizome
125.	Idukki	Ginger	2006-07	A.S.Joseph, Areekattu, Kudayathoor, Elamdesam	4,000 kg rhizome
126.	Idukki	Ginger	2006-07	Sri. K.V. Baby, Kanyakuzhi, Kathipara.P.O, Adimaly.	4,000 kg rhizome
127.	Idukki	Ginger	2006-07	Eliyamma Markose, Kuzhikandathil, Elumpuram, Muttom	4,000 kg rhizome
128.	Idukki	Ginger	2006-07	Varghese Mattathil, Parekkara, Adimaly	4,000 kg rhizome
129.	Idukki	Ginger	2006-07	C.G.Gopalakrishnan, Cheradiyil East Kallor, Thodupuzha.	4,000 kg rhizome
130.	Idukki	Ginger	2009-10	P.S.Reji, Pottananickal (H), Keertithodu,P.O., Punnayar, Idduki (dist)	4,000 kg rhizome
131.	Idukki	Ginger	2009-10	Philip Joseph, Muringayil (H), Thropamkudy.P.O., Idukki Dist.	4,000 kg rhizome
132.	Idukki	Cocoa	2009-10	1. M.V.Joseph.,Kunnaathuparayil (H), Keerithodu .P.O., Punnayar, Idukki Dist. 2. T. Binish.B & J Nursery, Kavalayil (H), Manippara .P.O, Iddukki Dist.	
133.	Idukki	Pepper	2006-07	Sri. George Joseph, Akkiletu (H), Anakkara.P.O	60,000 cuttings
134.	Idukki	Pepper	2006-07	Sri. Baby, Kakanattu, Mulakkaramedu, Kattapana	60,000 cuttings
135.	Idukki	Pepper	2006-07	Cheriyil Agro Nursery, Smt Moly Kutty thomas, Kapipathal, pashupara, Kattapana	60,000 cuttings
136.	Idukki	Pepper	2007-08	Nanma SHG President, Achumukku, Valiyathovala.P.O., Nedumkandam	60,000 cuttings
137.	Idukki	Pepper	2007-08	Sunny Thomas Tharappel Ezhakunnavayal.	60,000 cuttings
138.	Idukki	Pepper	2007-08	Yuva Jana Karshaga Vedhi, Erattayar.	60,000 cuttings
139.	Idukki	Pepper	2007-08	Shaji Sebastian, Chemparampallil, Pallikanam, Chambagampara.	60,000 cuttings
140.	Idukki	Pepper	2007-08	Friends SHG, Erattayar, Idukki Dist.	60,000 cuttings

141	Idukki	Pepper	2009-10	Benny Mathew, Poonthuruthiyil(H), Merigiri P.O, Njarakavala	60,000 cuttings
142	Idukki	Pepper	2009-10	K.K Raju, Kolothu(H), K.Chapath P.O, Idukki dist	60,000 cuttings
143	Idukki	Pepper	2009-10	P.P.Mathew, Putenpurackal Nursery Plamood, Mathaipara P.O, Idukki Dist	60,000 cuttings
144	Idukki	Pepper	2009-10	Sojan Thomas, Kureekattu Nursery, Kalathotty P.O, Labbakkada	60,000 cuttings
145	Idukki	Turmeric	2006-07	Ref Father, P.G.Nayanan, CSI Curch, Valakodu Mathaipara	2,000 Rhizome
146	Idukki	Turmeric	2006-07	Sri George Verghese, Muttathikalayil, Valakodu	2,000 kg Rhizome
147	Idukki	Turmeric	2006-07	Sri Sunil, Kadiyakudiyil, M.C.Kavala Upputhara	2,000 kg Rhizome
148	Idukki	Turmeric	2006-07	Johny Joseph, Edinjakuzhakkal, Upputhara	2,000 kg Rhizome
149	Idukki	Turmeric	2006-07	V.R Kuttapan, Vattakuzhiyil, Cheendalar	2,000 kg Rhizome
150	Idukki	Turmeric	2006-07	Chacko.C Karunkallil Upputhara	2,000 kg Rhizome
151	Idukki	Turmeric	2006-07	Thomman Augustine Parakkal, 9-Acre Upputhara	2,000 kg Rhizome
152	Idukki	Turmeric	2006-07	Secretary, Annapooma SHG, Kumar lane Tree	2,000 kg Rhizome
153	Idukki	Turmeric	2006-07	President New Star SHG, Valacode	2,000 kg Rhizome
154	Idukki	Mushroom	2007-08	Joseph Peter, Padijnare Kattu, Kodikulam Elamdesam	5,000 kg spawn
155	Idukki	Pineapple	2007-08	Joy Joseph, Petenatt(H), Koduveli P.O, Kodikulam, Idukki	50,000 suckers
156	Idukki	Banana	2007-08	1.K.V. Thomas Kattukudiyil, Adimaly 2.A.V. Wilson, Arackal, Adimaly 3 .S.S Jolly, Sambrikudy, Adimaly 4.T.M Paul, Tekkuram Kattil,	30,000 suckers
157	Idukki	Pineapple	2008-09	Johny Augustine, Muttom, Thodupuzha P.O, Idukki Dist	50,000 suckers
158	Idukki	Pineapple	2009-10	Saji Paul, MoleKunnel(H), Muthalakodam P.O, Idukki Dist.	50,000 suckers
159	Kozhikode	Banana	2007-08	M.V Chandran. Kanava (H).Chemarathur	30,000 suckers

160	Kozhikode	Banana	2009-10	K.K.Nanu, Akkal P.O, K.B Kayakkody.	30,000 suckers
161	Kozhikode	Banana	2009-10	K.K.Rajeevan, Padichil Nidumannur, K.B Kayakkody, Kozhikode	30,000 suckers
162	Kozhikode	Banana	2009-10	N.K.Kunhiraman, Chemarathur, K.B Thituvallor, Kozhikode.	30,000 suckers
163	Kozhikode	Banana	2009-10	Feroz V.P, Vazhyil Peedikayil, K.B Naripetta, Kozhikode.	30,000 suckers
164	Kozhikode	Banana	2009-10	Rasheed Chekkilode, Vaninal P.O, K.B.Naripetta, Kozhikode.	30,000 suckers
165	Kozhikode	Banana	2009-10	Immanuel Joseph, Thekkayil, Indira nagar P.O, K.B Naripetta, Kozhikode.	30,000 suckers
166	Kozhikode	Banana	2009-10	Moidu Haji, Pothampara P.O, K.B Kavilumpara, Kozhikode.	30,000 suckers
167	Kozhikode	Banana	2009-10	Dr.N.L. Kunhabdulla, Nariyankandi(H), K.B.Velom, Kozhikode.	30,000 suckers
168	Kozhikode	Banana	2009-10	P.Rajeevan, Patayil, Katameri, Krishi Bhavan, Ayenchery.	30,000 suckers
169	Kozhikode	Banana	2009-10	Sony Abraham, Thervarkottayil(H), Avadukka P.O, Peruvannamoozhi.	30,000 suckers
170	Kozhikode	Banana	2009-10	Philip, Thadathil house, Chembukadavu, Krishi Bhavan Kodenchery	30,000 suckers
171		Turmeric	2007-08	Abdul Nabeel.P, Pattorakkal Veedu, Koonamvellikavu, Meppayur, 5 th ward, Kozhikode	4,000 kg Rhizome
172	Kozhikode	Turmeric	2007-08	Valsan.A, Chembakode, Kodarechalil, Menanjhin P.O, Perambra, Kozhikode	4,000 kg Rhizome
173	Kozhikode	Alovera	2007-08	Sri. Kumaram Nair, Amritha Herbal Gardens, Viyyur P.O, Kodyilandy, Kozhikode.	
174	Kozhikode	Mushroom	2009-10	Vijaylakshmi Amma K.V, Puthiyapyra, Eranchipalam.	5,000 kg spawn
175	Malappuram	Mushroom	2009-10	Jameela, W/o Mohammed kutty, Puzhakkal, Iringavur, 676103.	5,000 kg spawn

				Iringavur, 676103,	
176	Malappuram	Banana	2010-11	Sri. Mohammad, Perinthalmanna	30,000 suckers
177	Malappuram	Banana	2010-11	Sri. Vivikananda, Malayilveddakadhil, Nilambur	30,000 suckers
178	Malappuram	Medicinal plants	2010-11	Sri. Vivikananda, Malayilveddakadhil, Nilambur	1200-1800 planting materials
179	Kollam	Mushroom	2009-10	Navashakthi Trust, Kollam	5,000 kg spawn
180	Thiruvananthapuram	Minor horticulture crops	2011-12	Sri. Ashraf A., Thenguvilaveedu, Kaduvakuzhy, Aryanad P.O.	40,000 plantlets
181	Thiruvananthapuram	Minor horticulture crops	2011-12	Sri. Thankamani, Ancyvilla, Kanakuzhy, Aryanad	1 lakh 50 thousand plantlets
182	Thiruvananthapuram	Minor horticulture crops	2011-12	Sri. Neshamony, Archana Nilayam, Kanakuzhy, Aryanad	2 lakh plantlets
183	Thiruvananthapuram	Minor horticulture crops	2011-12	Sri. Jayakumar, Athmanilayam, Cheruvarakonam, Parassala	90,000 plantlets
184	Kozhikode	Turmeric	2011-12	Smt. Shanty Eldore, Chambakotty, Manhanian Sri. A.K., Gopalan, Ayeram, Kombath Chemmarathur, Thiruvallor Smt. M.K. Visalakshi, Kamala Sadan, Mayyannar	6 Tonnes
185	Kasargod	Pepper	2011-12	Ibrahim Meepri, Meepri Nursery, Heroor P.O Mangalpady, Manjeswaram	80,000 cuttings
186	Palakkad	Ginger	2010-11		
187	Thiruvananthapuram	Mixed	2012-13	Garden city group, Tvpm	Production yet to start

ANNEXURE II
CROPWISE YEARWISE ACHIEVEMENT OF AREA EXPANSION COMPONENT UNDER NHM PROGRAMME BY SHM-KERALA FRC
2005-06 TO 2011-12

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COMPONENTS		2005-06		2006-07		2007-08		2008-09		2009-10		2010-11		2011-12		Rs. in lakhs	
		PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN
Establishment of New																	
Fruits (perennials)																	
	Mango (1st Year)			154.75	17.5023	1197.63	44.7878	514.88	32.5468	1558.56	172.6512	551.291	66.3446				
	2nd yr									4.889	1.89995	74.66	7.4097	10	0		
	3rd yr									3	0.2025	43.28	2.9214				
	Phalasree											142.57	20.476	650.922	137.64		
	Gooseberry			176.48	21.1922	103.52	11.6462	38.1414	8.41762	123.151	11.8722	118.64	13.2265	0	0.1		
	2nd yr									14.3	5.42769	11.2	0.504				
	3rd yr									4.0014	3.65455	62.2	4.1985				
Fruits (non-perennials)																	
	Banana	3.8	0.285	1569.92	117.733	19505.2	1091	17179.8	1345.72	24382.1	1715.269	5167.47	385.303	767.3	41.850		
	2nd yr									398.556	12.84022	86.54	2.5962				
	3rd yr									77.662	3.28986	25.576	1.15092				
	Pineapple			1137	87.0181	4536.79	222.466	1936.07	146.128	3939.73	387.5122	443.155	35.7868				
	2nd yr									1747.97	52.49022	1051.45	26.7434	2.2	0.0		
	3rd yr									1025.25	46.13535	546.157	22.6869	102.89	4.630		
	Banana Sucker											7605.2	1819.69	7629.89	2137.7		
	2nd yr													1875.73	167.17		
	Pineapple Sucker																
	2nd yr											698.814	124.843	1250.41	327.76		
	TC Banana & Pineapple													363.75	31.810		
	Density Planting											16.4449	5.03654	61.863	20.971		
	Cool Season vegetable											2.4	0.48	11.2	3.		
										573.528	43.0146	176.472	13.2354				

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COMPONENTS	2005-06		2006-07		2007-08		2008-09		2009-10		2010-11		2011-12	
	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN	PHY (ha)	FIN
Vegetables			834.9	622.145	6808.84	241.476	2225.31	265.769	1137.4	77.5855	375.118	49.0305	207.57	20.86
Organic veg. Village							340	26.25	205	15.375	1.5	0.1125		
Minor Horti			10	0.75	125.31	10.2349	193.293	7.60705	119.39	18.03905	33.686	2.90265	0.3	0.4
Flower crops														
Loose flowers							179.13	20.4047	50.2778	7.07784	22.4081	2.69977	7.72	0.9
Cut flowers					3.4	1.19	147.6	51.4577	306.558	100.2272	215.229	65.8817	257.95	94.001
Spices														
Pepper			1644.4	35.4771	77.38	5.88888	959.192	76.75	1561.99	81.63534	612.443	69.4058		
Pepper-new											610.624	98.3563	584.564	141.4
Ginger			2961.44	206.711	256.337	169.229	1321.36	157.972	4331.62	462.189	381.913	42.9581		
Ginger-New			0	0	0	0	0	0			442.092	35.799	2165.93	279.0
Turmeric			863	68.2668	77.79	33.6084	248.841	32.4812	791.506	86.80216	233.8	26.3183		
Turmeric-New			0	0	0	0	0	0			184.88	13.3475	399.159	50.69
Nutmeg			129.16	4.42027	37.6	12.0614	408.63	20.1979	536.247	52.4205	101.168	11.6063		
Nutmeg-New											149.412	19.892	334.144	67.66
Clove											3	0.6	25	
Cinnamon														
Plantation Crops														
Betelvine							3.25	0.11531	43.952	2.80394	8.2	0.63857		
Cashew			202.485	11.3873	3603.36	155.577	746.801	82.6476	4662.08	201.6654	6189.6	720.305	5168.9	791
Medicinal Plants			0	0.16875	99.066	0.85673	34.507	9.21689	104.471	8.21501	5.54	0.5855		
Cocoa	80	9	33.46	1.8837	150.3	8.45252	191.35	11.8885	653.208	37.22489	351.265	10.2803		
Cocoa-new											37.645	4.5162	1590.51	144.33
Maintenance													21	0

Annexure - III

PRODUCTION DETAILS OF BIO-CONTROL AGENTS OF STATE BIO-CONTROL LABORATORY, MANNUTHY

		2011-12	2012-13	2013-14
Sl no	Name of Bio-agents/ bio-pesticides multiplied			
1	<i>Pseudomonas fluorescens</i> (talc formulation)	108.814 MT	78.16 MT	101.835 MT
2	<i>Pseudomonas fluorescens</i> (liquid formulation)	8882.5 L	13912.5 L	9854.5 L
3	<i>Trichoderma viride</i>	60.763 MT	30.464 MT	42.97 MT
4	Trichocards	38129 cc	34753 cc	30,800 cc
5	Chitin enriched <i>pseudomonas</i>	27.437 MT	12.043 MT	20.783 MT
6	<i>Verticillium lecanii</i>	909 Kg	604 Kg	299 Kg
7	<i>Beauveria bassiana</i>	2893 Kg	850 Kg	1286 Kg

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