REPORT OF JOINT INSPECTION TEAM ON THEIR VISIT TO TAMIL NADU DURING 11-15 FEBRUARY, 2013





Ministry of Agriculture
Department of Agriculture & Cooperation
Horticulture Division
Krishi Bhavan
New Delhi

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TEAM WHICH VISITED TAMIL NADU DURING 11-15 FEBRUARY, 2013 TO REVIEW NATIONAL HORTICULTURE MISSION (NHM) AND OTHER SCHEMES

Members of JIT: Dr. Jose C. Samuel, Chief Consultant (NHM), Shri Homey Cherian, Director, DASD, Calicut, Shri R. Jyanadevan, Deputy Director, DCCD, Kochi, Dr. M. Selvarajan, Professor & Head (Fruit Crops), Horticulture College & RI, TNAU, Periakulam, Dr. I. Muthuswamy, Prof. (SWC Engg) & PI, PFDC, TNAU, Coimbatore, Shri Ashok Gahrotra, Sr. Project Officer, NCPAH, New Delhi, Shri R.R. Sharma, Assistant Director (NHM), DAC, New Delhi

Shri Periasamy, Shri J. Hal Dorai, Joint Directors and Shri G. Kandaswamy, Deputy Director, TANHODA accompanied from Govt. of Tamil Nadu. Deputy Directors of Horticulture from respective districts were also present during field visits

Districts Covered: Vellore, Salem and Villupuram.

Activities Covered:

NHM: Small Nursery (Pvt.), Area expansion of mango, guava, banana,

cocoa, turmeric, bamboo, Protected cultivation and Horticulture

mechanization

NMMI: Drip irrigation

VIUC: Formation of Farmer Interest Groups, shade net house

Interactions: Shri P. Shankar, District Collector & Chairman DMC, Vellore,

Shri K. Maharabushanam, District Collector & Chairman DMC,

Salem.

Dr. Santosh Babu, Commissioner of Horticulture & Mission

Director, Tanhoda.

Interacted with farmers and farmer groups.

Summary of Observations & Recommendations:

General:

- In general, there is improvement in area and production of horticulture crops, particularly fruits and vegetables.
- There is good response for adoption of plastic mulching in Vilipuram district.
- Extension staff at field level needed strengthening. Moreover, the staff needs to be trained on latest technologies, particularly green house cultivation and micro irrigation & improved package of practices.
- Assistance is being extended to the farmers by combining a number of schemes such as NHM, NMMI, RKVY (NADP) along with additional subsidy from State Government. Field staff as well as farmers needs to be made aware about the nature and level of assistance.

NHM

- Out of release of Rs.531.20 crore (including Rs.44.00 crore released during 2012-13) the expenditure has been Rs.499.50 crore (94%).
- Main focus under NHM has been on area expansion. Out of total expenditure of Rs.499.50 crore, an amount of Rs.427.36 crore (viz 86%) has been spent on area expansion alone. Besides, expenditure has exceeded approved outlay on this activity.
- 100% assistance is being given for area expansion activity to SC & ST farmers. This has resulted in NHM becoming a beneficiary oriented programme rather than area oriented cluster approach for horticulture development.
- Planting material is being supplied through centralised arrangement through TANHOPE from Departmental nurseries and TC units. While supplying the planting material, farmers need to informed about quantity of each variety and planting need to be done in a systematic manner by segregating each variety.

- There is a need to promote improved varieties, including turmeric with high curcumin content.
- Nurseries need to be got accredited and planting material should be supplied from accredited nurseries only.
- Farmers need to be trained on package of practices by involving State
 Agriculture University. Hands on training needs to be arranged at
 production site itself. Training and exposure visits needs to organised
 for the farmers before they take up planting of the horticulture crops.
- Specialised training needs to be imparted on canopy management.
- Extension personnel involved in distribution of planting material needs to be trained on propagation technologies through Horticulture College & RI, Periakulam.
- The small nursery visited at Salem needed display of boards indicating the varieties being multiplied. It appeared that an erstwhile mango plantation has been converted into a nursery.
- Green houses needs to be given thrust in areas suitable for adoption of
 this technology. It needs to be ensured that proper material is used by
 the fabricator. Moreover, farmer should be trained on protected
 cultivation aspects. PFDC, Horticulture, Deptt., TNAU need to be
 involved in organising training programmes on protected cultivation.
 There is scope to promote shade net house where green houses are
 not suitable. Moreover, plastic mulching needs to be promoted under
 fruits and vegetable cultivation.
- FLDs need to be organised extensively. The demonstrations should include latest technologies for which scientific staff from the SAUs needs to be involved.
- Horticulture mechanization has picked up momentum as there was shortage of farm labour. Mulch laying machine being used by a group of farmers at Salem district for growing vegetables was appreciated.

NMMI

- An amount of Rs. 292.08 crore has been released, including Rs.83.00 crore released during 2012-13. So far an expenditure of Rs.271.77 crore (93%) has been incurred.
- 100% subsidy is being provided to SC/ST farmers limited to one acre.
- The installation of drip and sprinkler irrigations systems needs to be supported with training of field functionaries as well as farmers about running & maintenance of the system, crop water requirement & irrigation scheduling.
- It needs to be ensured that the drip system is installed as per the required specifications.

VIUC

- An amount of Rs.25.50 crore has been released under VIUC scheme, including Rs.8.50 crore released during 2012-13.
- Interaction with a Farmer Interest Group at Vellore revealed that efforts are still on for forming FPO. No physical progress has been achieved so far in terms of cultivation as well as forward linkage at Chennai city.
- Necessary arrangements need to be made to arrange posting of data on market arrival and price of vegetables and other horticulture commodities on Agmarknet.
- Progress need to posted on Sugyan web site developed by SFAC for monitoring VIUC scheme. Moreover, progress needs to be informed to SFAC on a monthly basis.

NBM

- An amount of Rs.4.68 crore has been released since 2007-08, including Rs.0.20 crore released during 2012-13. An expenditure of Rs. 4.45 crore (95%) has been incurred. Progress report for the year 2012-13 is awaited.
- Area expansion programme visited by JIT at two locations was satisfactory.

Wrap up meeting at Chennai

A meeting was held at Chennai on 15.02.2013 to discuss the observation and recommendations of JIT, a copy of which was provided to Commissioner of Horticulture & Plantation Crops, Mission Director, TANHODA. List of participants of the meeting is attached (Annexure I). Highlights of the meeting are as follows:

Commissioner of Horticulture & Plantation Crops gave a live demo on the M-Governance application used for monitoring the MI installations and also the work flow based application for Micro Irrigation Scheme. It emerged that HORTNET, developed and hosted by NIC for NHM has similar features. Hence there was no need to develop a parallel system by TANHODA. With regard to VIUC scheme, Commissioner of Horticulture made a presentation. He informed that Baseline survey was conducted by ORG Centre for Social Research, The Nelsen Company, without consulting TANHODA. As a result many of the information provided in their report were not factually correct. Agencies identified for FPO formation were also not active. As a result TANHODA have initiated own efforts. He, further, explained about the formation of Chennai Horticulture Produce Producer Company Ltd (CHPCL) to function an Aggregator (Annexure II). . One retail outlet was opened in the office premises, which however, could not take off. He also gave the details about the functions of farmer groups, federations, market aggregators and franchisees. He assured that good results will be shown in about two months time. About 100 retail outlets will be opened in Chennai. On a query about the role of TANHODA in CHPHC, he mentioned that TANHODA will facilitate the functioning of CHPC and they will withdraw after one or two years. With regard to marketing of vegetables, the system put in place by SHM Odisha in association with Axis Bank was explained. Commissioner Horticulture agreed to send CEO of CHPCL to Bhubaneshwar to see the functioning of the same.

Visit to Vellore District

The following officials accompanied JIT during visit to Vellore District

S.	Name and Designation	Designation
No.		
1.	Mr. V. Gangadaran	Deputy Director of Horticulture, Vellore
2.	Mr. P. Gunasekar	Asst. Director of Horticulture
3.	Mrs. Nithya Kumari	Horticulture Officer (State scheme) of
		Deputy Directorate of Horticulture, Vellore
4.	Mrs. Saraswathi	Horticulture Officer (Centrally Sponsored
		Schemes) office of Deputy Directorate of
		Horticulture, Vellore
5.	Mr. H.K. Pandey	Asst. Director of Agriculture (Seed
		Certification)
6.	Mr. C. Gunasear	Asst. Director of Horticulture, Officer
		Madhaneer.
7.	Mr. Desing Ranjan	Asst. Horticulture, Officer, Anacut

a) Horticulture in Vellore

Vellore district has favourable agro climate condition for raising different kinds of Horticulture crops like fruits, Vegetables and flower crops. Additional area can be brought out by utilizing the vast fallow land available in the district. The total geographical area of the district is 5,92,018 hectares and the net sown area is 1, 74,695 hactares which constitutes 40% of the total geographical area of the district. The area under horticulture crops is 31700 hactares which occupies 80% of the net sown area.

Vellore has a tropical climate suitable for tropical fruits, Vegetables and flowers. The district accounts for 5% of area coverage and 4.7% of production of horticulture in the state. There has been increase in the area under these crops during the last couple of years .Of this more than 60% of the area are rainfed and the balance area are catered through irrigation sources viz wells, canals and tanks. There is absence of surface water irrigation in the district. Efforts are initiated by the department of horticulture to increase the area under horticulture crops under rainfed as well as by way of irrigation through drip system.

Among the fruits crops mango constitutes 65% of area under fruit crops. Many improved varieties are being introduced in the district through NHM scheme.

In the district almost all the vegetables are grown., Brinjal, Bhendi, Tomato, Onion, Greens, Yam, Colocosia, Tapioca, gourds, beans etc are the major crops in terms of coverage of area and production.

Among spices, Turmeric, Chillies & Tamarind occupies major area giving scope for setting up of agro – processing units.

Flowers are largely grown in the district. Jasmine kinds, Crossandre, Tuberoses & Roses are popular among flowers. More than 85% of the area under flowers is accounted for by jasmine. Out of 17097 tons of flowers produced in the district more than 50% are sold in other states and metropolis.

b) Implementation of NHM Scheme in Vellore District

NHM scheme is being implemented in Vellore district since 2007-08, the focus crops being Mango, banana, aonla, turmeric, chillies and flowers.

On an average about Rs. 2.0 to 2.5 crore is being spent under NHM in Vellore district. Details of release and expenditure is given in the following **Table 1**.

 Table 1: Release and Expenditure under NHM in Vellore District

(Rupees in lakh)

Year	Release	Expenditure	Balance		
	361.339	307.15	54.189		
2008-09	373.358	319.900	53.458		
2009-10	294.671	276.150	18.521		
2010-11	240.258	202.760	38.00		
2011-12	225.430	225.00			
2012-13	107.030	31.125	75.905		

Summary details of area, production and productivity of horticulture crops in Vellore district during 2007-08 and 2011-12 in respect of fruit crops, spices and flowers is given in **Table 2**

Table 2. Area, production and productivity of Horticulture Crops in Vellore District

A. Fruits

SI. No.	Crops	Area (000' ha)			Produ	uction (000	' MT)	Prod	Productivity (MT/ha)		
110.		2007-08	2011- 12	% Change	2007-08	2011-12	% Change	2007- 08	2011- 12	% Change	
	Mango	11800	14380	21.9	106200	129420	21.9	9.00	9.00	0.0	
1	Banana	7155	6179	-13.6	286200	247160	-13.6	40.00	40.00	0.0	
2	Gvava	530	543	2.5	10600	10860	2.5	20.00	20.00	0.0	
3	Sapota	474	523	10.3	9480	10460	10.3	20.00	20.00	0.0	
4	Jack	58	61	5.2	1740	610	-64.9	30.00	10.00	-66.7	
5	Lemon	64	102	59.4	960	1530	59.4	15.00	15.00	0.0	
6	Aonla	61	38	-37.7	610	1140	86.9	10.00	30.00	200.0	
7	Papaya	19	120	531.6	2280	14400	531.6	120.0 0	120.0 0	0.0	
8	Others	3	91	2933.3	60	1820	2933.3	20.00	20.00	0.0	
	Total	20164.0	22037	9.3	418130.0	417400	-0.2	20.74	18.94	-8.7	

B. Spices

SI.		Area (000	' ha)		Production % Change		Productivity (MT/ha)			
No.	Crops	2007-08	2011- 12	% Change	2007- 08	2011- 12		2007- 08	2011- 12	% Change
1	Turmeric	760	1824	140.0	3040	7296	140.0	4.00	4.00	0.0
2	Chillies	592	916	54.7	592	916	54.7	1.00	1.00	0.0
3	Tamarind	452	374	-17.3	4520	3740	-17.3	10.00	10.00	0.0
4	Coriander	92	93	1.1	460	465	1.1	5.00	5.00	0.0
5	Curyleaf	29	18	-37.9	580	3600	520.7	20.00	200.00	900.0
6	Mint	8	10	25.0	16	20	25.0	2.00	2.00	0.0
	Total	1933	3235	67.4	9208	16037	74.2	4.76	4.96	4.1

C. Flowers

SI. No.	Crops	Area (000' ha)			Production (000' MT)			Productivity (MT/ha)		
		2007-	2011-	%	2007-08	2011-12	%	2007-	2011-	%
		80	12	Change			Change	80	12	Change
1	Mullai	866	887	2.4	8660	8870	2.4	10.00	10.00	0.0
2	Jathimalli	302	201	-33.4	3020	2010	-33.4	10.00	10.00	0.0
3	Gundumalli	725	575	-20.7	5800	4600	-20.7	8.00	8.00	0.0
4	Crossandra	127	74	-41.7	1016	592	-41.7	8.00	8.00	0.0
5	Rose	99	37	-62.6	495	185	-62.6	5.00	5.00	0.0
6	Tuberose	31	14	-54.8	434	196	-54.8	14.00	14.00	0.0
7	Chrysanthemum	8	15	87.5	160	300	87.5	20.00	20.00	0.0
8	Others (Marigold,	4	43	975.0	40	344	760.0	10.00	8.00	-20.0
	Kakada, Neeriam									
	Total	2162	1846	-14.6	19625	17097	-12.9	9.08	9.26	2.0

Source: Deputy Director of Horticulture, Vellore

c) Implementation of NMMI Scheme in Vellore District

Under NMMI scheme, initially 65% subsidy was available to all the farmers in Tamil Nadu. This has been enhanced to 75% for general category farmers and 100% for small and marginal farmers w.e.f. 25.11.2012. NMMI scheme is being implemented as per the following subsidy pattern in Tamil Nadu (Table 3).

Table 3: Pattern of Assistance under NMMI in Tamil Nadu

S.No,	Pattern of Assistance	Government of India	Government of Tamilnadu	Farmers contribution
1	Existing	50%	25%	25% small and Marginal Farmers.
	_	40%	25%	35% other farmers
2	Revised Pattern	50%	50%	Nil for small and Marginal Farmers
	w.e.f. Nov. 2012	40%	35%	25% for other farmers.

The assistance is available to the farmers growing all horticulture crops like fruits, vegetable spices, medicinal and Aromatic plants and non Horticulture crops like cereals, pulses, oil seeds sugarcane and other field crops. However the subsidy of 100% is limited to Rs. 43,816 per beneficiary irrespective of the spacing as per the details given in **Table 4.**

Table 4: Area ceiling under NMMI Scheme in Tamil Nadu

S.No.	Spacing 9m)	Maximui	m area that can be co Rs. 43,81	covered with a celling of 816			
3.NO.	Spacing 9111)	Area	Area i	n Acres			
		Area	Small Farmer	Marginal Farmer			
Wider	Spaced Crops:						
1	12x12	2.00	5.00	2.50			
2	10x10	2.00	5.00	2.50			
3	9x9	2.00	5.00	2.50			
4	8x8	2.00	5.00	2.50			
5	6x6	1.65	4.12	2.50			
6	5x5	1.50	3.75	2.50			
7	4x4	1.40	3.50	2.50			
8	3x3	1.20	3.00	2.50			
9	2.5x2.5	0.84	2.10	2.10			
10	2x2	0.70	1.75	1.75			
b. Clos	sely Spaced Cro	ps					
11	1.5x1.5	0.60	1.50	1.50			
12	2.5x0.6	0.80	2.00	2.00			
13	1.8x0.6	0.62	1.50	1.50			
14	1.2x0.6	0.40	1.00	1.00			

JIT enquired as to how transparency was ensured while selecting the beneficiaries, particularly since resources are limited and the system is being provided free of cost. It was informed that, as a policy, first priority was given to women SC farmers, followed by Ex Servicemen, physically handicapped, Small & Marginal farmers and then general farmers.

Details of work order issued and work completed under NMMI during 2012-13 is given in **Table 5**.

Table 5: Progress under NMMI during 2012-13

A. With 75% Subsidy

C No	Name of	Torgot	Work Order issued		Work Order issued		Amount	
S.No.	Department	the Target No.		Area (Ha)	No. of Application	Area (Ha)	Amount	
1	Horticulture	160	190	179.48	154	81.14	29.6	
2	Agriculture		105	96.90	12	4.60	4.50	
B. Wi	th 100% Subs	idy						
S.No.	Name of the Department	Target	Work Order	Work Order issued		der I	Amount	
	-		No. of Application	Area (Ha)	No. of Application	Area (Ha)		
		-	• •	· · · · ·		10 10		
1	Horticulture	640	781	430.51	29	16.19	9.08	

Crop wise details of area covered under NMMI in Vellore district is given in **Table 6.**

Table 6: Crop wise detail of area covered under NMMI in Vellore district

	_		Subsidy Released
Year	Crop	Area (Ha)	(Rs. in Lakh)
	Vegetables	127.37	18.09
2007-2008	Sugarcane	263.93	56.47
2007 2000	Mango	100.76	11.63
		Total	86.19
	Vegetables	302.86	44.59
2008-2009	Sugarcane	281.10	54.96
2000-2009	Mango	15.15	1.77
		Total	101.32
	Vegetables	262.76	82.23
2009-2010	Mango	303.56	66.46
		Total	148.69
	Vegetables	203.77	81.56
2010-2011	Sugarcane	54.68	16.12
2010-2011	Mango	58.56	19.90
		Total	117.58
	Mango	58.89	9.07
	Vegetables	163.00	56.89
2011-12	Sugarcane	72.40	25.138
	Other Crops	74.27	21.13
		Total	112.22
	Sugarcane	113.76	46.15
2012-13	Vegetables	208.54	66.44
	Mango	61.69	8.86

	Other Crops	68.55	26.66
		Total	148.11
		Grand Total	714.11

d) Implementation of NBM scheme

The scheme is being implemented in Vellore since 2009-10 in 12 blocks. Area expansion was taken up in 38.5 ha in non forest land at an expenditure of Rs. 3.08 lakh covering 28 beneficiaries. Assistance for second year has been released to the beneficiaries who have maintained 90% survival of the plants.

Summary details of plots visited by JIT in Vellore District are given in **Table 6**.

Table 6: Plots visited by JIT in Vellore District

Block Anaicut & Madhanur

Name & Address of the farmer	Name of block	Scheme component	Year	Crop	Area (ha)	Subsidy Availed (Rs.)
Lalitha W/o. Pichandi, Bramanamangalam	Anaicut	NHM AEP TC Banana	2012- 13	TC Banana	1.00.0	31202.00
Pushpammal W/o. Krishnasamy, Othiyathur	Anaicut	NMMI drip 75% subsidy GIS Live Demo	2012- 13	Banana	1.00.0	55828.00
Parathasarathi S/o. Duraisamy, Magamadhupuram	Anaicut	NBM AEP Bamboo	2012- 13	Bamboo	1.00.0	8000.00
Chandirasekar S/o.Seshadri Naidu, Marattipalayam	Madhanur	NHM AEP Mango	2007- 08	Mango	4.00.0	45000.00
Gajendiran S/o. Ramanujulu Naidu, Marattipalyam	Madhanur	NHM AEP Mango	2007- 08	Mango	4.00.0	45000.00
Visvanathan S/o. Venkatarama lyyar, Agaram	Madhanur	NHM AEP TC Banana	2011- 12	TC Banana	1.00.0	31202.00
Loganathan S/o. Venugopal, Edatheru	Madhanur	NHM Cocoa AEP	2012- 13	Cocoa	0.40.0	4800.00
Kanthasamy S/o. Venkatesan, Guruvarajapalayam	Madhanur	NMMP AEP Coleus	2012- 13	Coleus	0.40.0	3440.00
Mahalingam S/o.	Madhanur	NMMP AEP	2012-	Coleus	0.40.0	3440.00

Saminathan, Guruvarajapalayam		Coleus	13			
Guruvarajapaiayairi						
Krishnamaraja S/o.	Madhanur	NMMP AEP	2012-	Coleus	0.40.0	3440.00
Munusamyraja,		Coleus	13			
Guruvarajapalayam						
Saravanan S/o.	Madhanur	NHM Mango	2010-	Mango	2.00.0	44160.00
Venkatesan,		High Density	11			
Chinnapallikuppam		Oranganic				
		Farming				
Vajiram S/o.	Anaicut	NMMI 100%	2012-	Flowers	0.60.0	43816.00
Ponnusamy,			13	Vegetables		
Genganallur						

Observations of JIT in Vellore District

- There is increase in production of fruits like mango, lemon and papaya and in the case of spices. Production has declined for flowers.
- It is observed that there is no change in productivity during 2007-08 as well as 2011-12 for fruits, spices as well as flowers. Data needs cross checking as productivity cannot remain constant.
- Major focus was on area expansion without any intervention on PHM and marketing.
- Tissue culture banana plantlets costing Rs.12.50 per plant were being supplied to SC / ST farmers, by Tamil Nadu Horticultural Producer Cooperative Enterprises Ltd (TANHOPE), free of cost. The amount is, however, booked under area expansion component.
- Free supply of planting material has induced many farmers to take up cultivation of horticulture crops without enquiring about the variety and its quality.
- Free distribution of MI system and other horticulture inputs has put substantial burden on the financial resources as well as the Extension machinery.

JIT called on Shri P. Shankar, District Collector and Chairman, District Mission Committee (DMC) on 11th February, 2013 and apprised him about the observations of JIT.

GLIMPSES OF VISIT IN VELLORE DISTRICT





Micro irrigation with fertigation in the plot of Ms Lalitha (L), W/o Sh. Pichandi at Bramanamagalam village, 2500 TC Banana was supported by TANHOPE costing Rs. 12.25 / plant, free of cost to the beneficiary.





Drip irrigation in one ha vegetable banana in the plot of Smt Pushpammal W/o Sh. Krishna Swamy at Othiyathur village is fetching good income. Subsidy assistance of Rs. 55828/- was provided during 2012-13. Live demonstration of GIS based field verification was demonstrated to JIT in the farmer's field on 11.02.2013.





Shri Parthasarthy has taken up bamboo cultivation (Bheema variety) in 0.8 ha during 2012-13 at Magamadupuram as energy plantation.





Tissue culture banana (G 9) planted by Shri Vishwanathan Iyyer during 2012-13 at Agaram village. 2500 plants were provided to him free of cost through TANHOPE. Hence he decided to grow banana.





Shri Chandrashekar has planted Alphonso and Benganapalli varieties of mango during 2007-08 at Marattipalayma, Madhanur Block. Attack of stem borer was noticed during the visit. He was advised to take up IPM measures immediately.





Interaction with farmer groups involved in VIUC. FIG (Gurujayapalayam Pandal Sagapadi) has about 20 members. During interaction by JIT it emerged that they were not aware of the assistance under VIUC scheme for FIGs. Nor were they aware about formation of Aggregator. View of vegetable seedling being raised under shade net is also seen.



JIT Members interacted with Shri P. Shankar, District Collector & Chairman, District Mission Committee on 11th of February, 2013



Visit to Salem District

Following officials accompanied the JIT:

- 1. Shri V. Sadasivan, Deputy Director Horticulture, Salem
- 2. Shri K. Ganeshan, HO
- 3. Shri M. Ravichandran, ADH
- 4. Shri S. Kannan, ADH, Ayothiapattnam Block

NHB scheme is being implemented in Salem District since 2005-06 for the development of focus crops viz., Mango, banana, aonla, chilli, turmeric and flowers. Details of expenditure incurred in the district are given in **Table** 7.

Table 7: Expenditure incurred in Salem district

Year	Amount (Rs. in lakh)	Main activities
2005-06	256.62	Nurseries, Area expansion,
		INM/IPM, Community tanks
2006-07	410.01	-do-
2007-08	832.98	Area expansion, organic farming
2008-09	472.26	Area expansion, community tank,
		HRD
2009-10	464.87	Area expansion
2010-11	570.76	Area expansion
2011-12	386.71	Area expansion
Total	3394.21	

Details of area, production and productivity of horticulture crops in Salem district are given in **Table 8.**

Table 8: Area, Production and Productivity of Horticulture Crops in Salem district

A. Fruit

Area and Production of Horticulture Crops from 2007-08 to 2011-12.

SI. No.	Crops	Area (000'	ha)		Production	(000' MT)		Productivi	ty (MT/ha)	
		2007-08	2011-12	% Change	2007-08	2011-12	% Change	2007-08	2011-12	% Change
1	Mango	3968	5826	46.8	31744	55347	74.4	8.00	9.50	18.8
2	Banana	1273	2170	70.5	57285	108500	89.4	45.00	50.00	11.1
3	Guava	131	239	82.4	2882	5975	107.3	22.00	25.00	13.6
4	Lemon	46	68	47.8	736	1088	47.8	16.00	16.00	0.0
5	Orange	764	615	-19.5	19100	15375	-19.5	25.00	25.00	0.0
6	Sapota	128	268	109.4	2816	6164	118.9	22.00	23.00	4.5
7	Jack	10	28	180.0	300	980	226.7	30.00	35.00	16.7
8	Nelli	63	115	82.5	378	920				
9	Other Fruits	116	202	74.1	2320	7070	204.7	20.00	35.00	75.0
	Total	6499	9531	46.7	117561	201419	71.3	18.09	21.13	16.8

B. Spices

Area and Production of Horticulture Crops from 2007-08 to 2011-12.

SI. No.	Crops	Area (000'	ha)		Productio (000' MT)	n	% Change	Productivi	ty (MT/ha)	% Change
		2007-08	2011-12	% Change	2007-08	2011-12		2007-08	2011-12	
1	Chillies	398	873	119.3	1990	26190	1216.1	5.00	30.00	500.0
2	Turmeric	2131	12456	484.5	10655	311400	2822.6	5.00	25.00	400.0
3	Coriander	106	30	-71.7	1060	450	-57.5	10.00	15.00	50.0
4	Tamarind	1320	258	-80.5	2640	3870	46.6	2.00	15.00	650.0
5	Pepper	873.5	826	-5.4	873.5	1652	89.1	1.00	2.00	100.0
6	Cardamom	38	39	2.6	0	9.75	0.0	0.00	0.25	0.0
7	Clove	51	50	-2.0	0	37.5	0.0	0.00	0.75	0.0
8	Curryleaf	274	355	29.6	11880	14200	19.5	43.36	40.00	-7.7
	Total	5191.5	14887	186.8	29098.5	357809	1129.6	5.61	24.04	328.8

C. Flower

Area and Production of Horticulture Crops from 2007-08 to 2011-12.

	Crops	Area (000'	ha)		Production	n (000' MT)		Productiv	ity (MT/ha)	
SI. No.		2007-08	2011-12	% Change	2007-08	2011-12	% Change	2007-08	2011-12	% Change
1	Rose	47	46	-2.1	376	460	22.3	8.00	10.00	25.0
2	Jasmine	410	546	33.2	3690	5460	48.0	9.00	10.00	11.1
3	Crossandra	167	19	-88.6	668	76	-88.6	4.00	4.00	0.0
4	Chrysanthe- mum	494	1285	160.1	6916	19275	178.7	14.00	15.00	7.1
5	Tuberose	58	93	60.3	464	930	100.4	8.00	10.00	25.0
6	Nerium	38	302	694.7	342	3020	783.0	9.00	10.00	11.1
7	Cock's comb	11	14	27.3	44	70	59.1	4.00	5.00	25.0
8	Others	278.5	92	-67.0	1671	920	-44.9	6.00	10.00	66.7
	Total	1503.5	2397	59.4	14171.0	30211	113.2	9.43	12.60	33.7

Source, Deputy Director of Horticulture, Salem

Observations of JIT in Salem district

- There has been significant improvement in area, production and productivity of horticulture crops, particularly fruit crops, which is a welcome sign.
- Focus has been mostly on area expansion activity without any linkage with post harvest management.
- Efforts being made to develop the rocky and undulated lands into mango plantation at Velliampatti village was appreciated.
- Use of plastic mulching as a group activity at Veppilaipatty for growing vegetables and water melon was appreciated.

JIT interacted with Shri K. Maharabushanam, District collected Chairman, DMC Salem on 12th February. He mentioned that flexibility need to be provided to the district administration to take up programme as per prevailing local conditions.

JIT also interacted with Shri S.S. Mehta, President, Aonla Growers Association and Vice President Confederation of Indian Horticulture. He advocated the need for promoting inter cropping of fruits for which assistance could be provided, per tree basis. This could enable farmers to have a mix of crops with less chances of loss, even if one crop fails.

GLIMPSES OF VISIT AT SALEM





Shri Subramanian has taken up high density plantation of mango in rocky and undulating land at Vellryampatty village, Ayothiyapattanam block during 2010-11. Four farmers belonging to the same family have also availed assistance under NHM to develop a mango cluster in an area of about 10 ha, a panoramic view of which is seen below.





A power tiller was handed over to Shri Palani Swamy, a ST farmer at Periakundapuram village. View of a small nursery (Pvt) where mango grafts (Alphonso, Salem benglura and Mallika varieties) were being produced. The owner was advised to label the plants to distinguish the varieties.





Farmers of a Model Village at Velpadi who have taken up plastic mulching in 20 ha during 2008-09. Tractor with mulch laying machine.





Method of laying plastic mulch with the help of mulch laying machine was demonstrated to JIT. Cultivation of vegetables and melon has enabled to enhance income significantly by the farmers. Punching a hole on plastic mulch for planting crop.





View of brinjal and chilli crops being grown with plastic mulch.

Joint Inspection Team Visit to Salem District On 12.02.2013







Thiru.K.Maharabushanam,IAS Chairman

District mission Committee of NHM & District Collector discussion with

JIT Members Dr.Jose C.Samuel, Dr.Ashok Gahortra, Humey Cherrian,

Dr.R R.Sharma,Dr.Selvaraj,Dr.Muthusamy

about GOI Schemes Implementation in Salem District.

Visit to Villapuram

Following officials accompanied the JIT during visit to Villapuram district.

- 1. Shri K. Rasu, Deputy Director of Horticulture (I/c), Villupuram
- 2. Shri P. Rajamani, Assistant Director of Horticulture (Planting Materials)
- 3. Shri K. Anbalagar, Horticulture Officer, Vanur
- 4. Shri S. Kanaga lingam, Horticulture Officer, Thiruvennai nallur
- 5. Shri S. Karl Marx, Horticulture Officer, Olakkur

NHM scheme is being implemented in Villupuram district since 2007-08 for the development of focus crops, viz. aonla, banana, cashew, cocoa and mango.

Details of expenditure incurred in Villupuram district are given in **Table 9.**

Table 9: Expenditure incurred Villapuram District

Year	Amount	Main Activities
2007-08	166.68	Area expansion
2008-09	238.32	Area expansion,
		community tanks
2009-10	215.71	Area expansion, HRD
2010-11	552.62	Area expansion,
		protected cultivation.

Summary details of area production and productivity of major horticulture crops in Villupuram District are given in **Table 10.**

Table 10: Area. Production and productivity of horticulture crops in Villapuram district

	Crops	A	rea (000' l	ha)	Produ	ction (000'	MT)	Prod	uctivity (N	/IT/ha)
SI. No.		2006-07	2011- 12	% Change	2006-07	2011-12	% Change	2006- 07	2011- 12	% Change
1	Fruits	2823	4573	62.0	49774	86249	73.3	17.63	18.86	7.0
2	Vegetables	8430	7410	-12.1	253485	181884	-28.2	30.07	24.55	-18.4
3	Spices& Condiments	1267	2217	75.0	3729	8835	136.9	2.94	3.99	35.4
4	Plantation Crops	6374	5330	-16.4	5183	1178	-77.3	0.81	0.22	-72.8
5	Flowers	439	352	-19.8	3339	3624	8.5	7.61	10.30	35.4
	Total	19333.0	19882	2.8	315510.0	281770	-10.7	16.32	14.17	-13.2

Source: Deputy Director of Horticulture, Villupuram. Individual crop wise details were not provided.

Summary details of plots visited by JIT in Villupuram District are given in **Table 11**.

Table 11: Plots visited by JIT in Villukpuram District

S.No.	Name & Address of the farmer	Name of block	Scheme component	Year	Crop	Area (ha)	Subsidy Availed (Rs.)
1	Tmt.Thulasi W/o. Krishnamurthy Semangalam	Thiruvennai nallur	NHM Poly Green House	2011-12	Capsicum	1000 Sq. Mt.	3,25,000
2.	Thiru. Ramaswamy S/o Sengodan Thachur	Kallakurichi	NADP Precision Farming	2008-09	Tapicoa	1.00	20,0000
3.	Thiru. Dhanasekaran S/o Periya Thachur	Kallakurichi	NMMI	2012-13	Turmeric	0.40	43,816
4.	Thiru. Janarthanan S/o Narayansamy Kaniyamur	Chinnasalem	NHM-AEP	2010-11	Mango- HDP	1.60	38,400
5.	Thiru. Gunasekar S/o Natesan Poosapadi	Chinnasalem	NHM-AEP	2008-09	Mango	4.00	45,000
6.	Thiru. Ramasamy S/o Ramaiya Thagarai	Chinnasalem	NHM-AEP	2007-08	Mango	4.00	45,000

Observations of JIT in Villapuram District

- There has been increase in area, production and productivity of fruits and spices in the district. However, plantation crop has registered a declining trend.
- Green house cultivation of colour capsicum at Semangalam village has been first attempt in the district. Rusting of clamps was observed, which need to be replaced by the fabricator.
- Interaction with Shri Janarthan at Kaniyamur village who has taken up mango cultivation in 1.6 ha revealed that he was not aware of the mango varieties planted. Plants needed canopy management and were under water stress during time of visit.
- In the plot of Shri Ramaswamy, Chinnasalem Block, some mango trees planted as inter crop with coconut gave less yield due to shade. Fruit drop was noticed.
- Farmers availing drip irrigation were not aware of the subsidy being provided. Amount of subsidy calculation was also quite complicated, which the district officials were not fully conversant with.

GLIMPSES OF VISIT AT VILLUPURAM DISTRICT



A power tiller was handed over to Shri Haldurai



Shri Janarthanan has taken up cultivation of mango varieties in 1.6 ha during 2010-11 at 5x5 spacing. He did not know which variety was located where in his plot. The plants needed canopy management. He needed training on cultivation aspects of mango. District officials were requested to organise training programme at the village with the assistance of college of Horticulture.





Drip irrigation taken up for tapioca crop by Shri Ramaswamy at Thachur village, Kallakukrichi Block. DIS has been provided free of cost being a SC farmers.





Shri Dhaneskaran has availed a subsidy of Rs. 43,816 for drip irrigation in turmeric covering 0.4 ha. During 2012-13.



Drip irrigation for tapioca in the plot of Shri Ramasamy, Tachur village



Mango crop in the field of Shri Gunasekar Poosapadi village. Fruit drop was noticed Due to lack of irrigation.







Shri Krishnamurth along with his wife has taken up capsicum cultivation in green house (1000 sq. m) during 2011-12). Crop standing was good at the time of visit by JIT. However, clamps which anchored the UV film needed replacement due to rusting.

Annexure I

JOINT INSPECTION TEAM WRAP-UP MEETING LIST OF PARTICIPANTS

VENUE: CONFERENCE HALL

DATE: 15.02.2013 TIME: 10.30 A.M

S. No.	Name and Designation	Designation
1.	Dr. Santosh Babu, I.A.S	Managing Director / TANHODA
2.	Dr. Jose Samuel	Chief Consultant (NHM), Krishi Bhawan,
		New Delhi
3.	Mr. Ashok Gahrotra	Sr. Project Officer NCPAH, Ministry of
		Agriculture, New Delhi
4.	Mr. Homey Cheriyan	Director I/C, Director of Arecanut and
		Spices Development, Calicut, Keral.
5.	Dr. I. Muthusamy	Principal Investigator (PFDC & Professor
		Head (SWC Eng.), TNAUK, Coimbatore
6.	Mr. R. Jnanadevan	Deputy Director DCCD-Calicut
7.	Dr. Selvarajan	Professor and Head, Dept. of Fruit crops
		HCRI, Perriyakulam, Theni.
8.	Mr. R. R. Sharma	Asst. Director Krishi Bhawan, New Delhi
9.	Mr. Krish S Iyanger	JS- NCPAH, New Delhi.
10.	Thiru. S. Venkateswarlu	Senior Horticulture Officer, Director
		National Horticulture Board Guindy,
		Chennai-32
11.	Thiru. Hemachandra	Deputy Director Coconut Development
		Board Annanagar Chennai-40
12.	Thiru. K. Periyasamy	Joint Director of Horticulture, Krishnagiri
13.	Thiru. J. Halthorai	Addl. Director of Horticulture, (Farms) I/c
14.	Thiru. G. Kandasamy	Deputy Director of Horticulture
15.	Thiru. S. Murugan	Joint Director of Horticulture, (Farms) I/c

		O/o COH & PC, Chennai
16.	Thirumathi K. Kalaiselvi	Deputy Director of Horticulture,
		Dharmapuri, I/c MI Chennai.
17.	Thirumathi R. Latha	Asst. Director of Horticulture (SS)
18.	Tmt. A. Kopperundevi	Horticulture Officer, (GOI)
19.	Thiru. C. Easudoss	Asst. Accounts Officer
20.	Thiru. V. Sadasivam	Deputy Director of Horticulture, Salem
21.	Thiru. V. Gangadaran	Deputy Director of Horticulture, Vellore
22.	Thiru.	Asst. General Manager (NMMI)
	P. Gomathinayagam	
23.	Tmt.M. Gokila Sakthi	Horticulture Officer, (NMMI)
24.	Thiru. V. Ravi	Asst. Director of Horticulture (P)
25.	Thiru. G. Koteeswaran	Manager Accounts, TANHOPE
26.	Thiru. R. Mahendra Kumar	Horticulture Officer, (Trg.)
27.	Thiru. T. Thangavelu	Chief Executive Officer, CHPCL
		(Perimeto)
28	Thiru. K. Vinod	Blue frog Mobile Technology (P) Ltd
29	Thiru. P. Pandiyan	EE/ TANHODA
30	Thiru. A. Jeyapandi	Asst. Director of Horticulture & Exe. P.A.
		to M. D
31.	Thiru. P. Suresh Kumar	Asst. General Manager/ NBM/ TANHODA
32.	Thiru. Kalyandhar	Director, Blue frog Mobile Technology (P)
		Ltd
33.	Tmt.P. Premavathi	Asst. Director of Horticulture, NHM
34.	Tmt.T. Kayarkanni	Horticulture Officer, NHM

Annexure II

CERTIFICATE OF INCORPORATION

प्राच्या प्

SHARE APPLICATION OF CHPCL

	SHADE	APPLICATION	mail.com	
ACKNOWLEDGEMENT SLIP	Ref. No.		ate:	
Name of the first Applicant				
Father's / Husband's Name				
Address				
Nationality				
Occupation				
Status	Individual / Compa	sny / Body Corporate / f	Non Residen	t / Resident / Karta
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SHARE CERTIFICATE OF CHPCL

