

Joint Inspection Team (JIT) Report of National Horticulture Mission for Tamil Nadu State

State: Tamil Nadu



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Dates of Visit: 20.10.2013 to 25.10.2013

Team Members:

1. Dr. H.V.L. Bathla, Chief consultant NHM, New Delhi.
2. Dr. Homey Cheriyan Director of DASD, Calicut, Kerala
3. Dr. I. Muthusamy, Principal Investigator (PFDC), TNAU Coimbatore
4. Dr. S. Balakrishnan Prof and Head, HCRI Periyakulam, Theni
5. G. Kandasamy, Deputy Director of Horticulture, NHM, Chennai

General Observations:

- Emphasis may be given for popularizing plastic mulching technology among the farmers.
- Beneficiaries need to be educated for training of plants and canopy management.
- The Tissue Culture Lab supported to TNAU, Coimbatore for production of planting material of TC Banana need to produce material for benefit of the farmers.
- The Leaf tissue analysis lab supported under NHM to TNAU, Coimbatore need to be popularized in the area and also the facility need to be utilized by the needy farmers.
- Leaf curl virus disease of Tomato need to be inspected by the field officials and educate the farmers regarding the symptoms and control measures. This may also be kept in view for other vegetable crops for viral diseases.
- Success story of protected cultivation of Cucumber needs to be brought out. It should be supported with actual data being maintained by the beneficiary. (Mrs. Kalaivani w/o Sh. Shanmugam A. Komdai Village)
- In view of shortage of quality planting material for different vegetables, establishment of more shade net nurseries be kept in view.
- In case of Area expansion, the layout of plants should be inspected by the field staff before planting.
- The rejuvenation of senile orchards need to be taken up in different districts.
- The difference between canopy management and rejuvenation need to be made clear and, if need be, necessary training may be imparted to the concerned officials.
- The protected cultivation component may be encouraged in suitable areas.

State: Tamil Nadu

Introduction:

Tamil Nadu covers an area of 130,058 km² (50,216 sq mi), and is the eleventh largest state in India. The bordering states are Kerala to the west, Karnataka to the north west and Andhra Pradesh to the north. To the east is the Bay of Bengal and the union territory of Puducherry. The southernmost tip of the Indian Peninsula is located in Tamil Nadu. At this point is the town of Kanyakumari which is the meeting point of the Arabian Sea, the Bay of Bengal, and the Indian Ocean. The south boundary of India is Kanyakumari, Tamil Nadu.

The State is parted broadly into two natural divisions i.e., (a) the coastal plains and (b) the hilly western areas. It is further classified as Coromandal plains consisting of Kancheepuram, Tiruvallur, Cuddalore, Villupuram, Thiruvannamalai and Vellore and alluvial plains of Cauvery Delta expanding to Thanjavur, Nagapattinam Thiruvavur and part of Trichy and dry southern plains in Madurai, Ramanathapuram, Sivagangai, and Kanyakumari Districts. The Western Ghats averaging 3000' to 8000' of height run along the western part with the hill groups of Nilgiris and Anamalais on either side of it. Palani hills, Varashanad and Andipatti ranges are the major off-shoots of Ghats. The other prominent hills comprise of Javadhu, Shervarayan, Kalrayans and Pachai Malais. These ranges continue south of river Cauvery. A Plateau is found between these hills and the Western Ghats with an average elevation of 1000 feet raising west-ward. The highest peak Doddabettah in the Nilgris is 8650' above M.S.L.

Western Ghats form a complete watershed and there is no river passes through them. The main streams i.e., Paraliyar, Vattasery Phazhayar etc., are of limited length and fall in the Arabian sea. All other rivers are east-flowing rivers. The main rivers of Tamil Nadu are Cauvery (with tributaries of Bhavani, Amaravathi, Noyyal) Vaigai, Tamaraparani, Palar, Ponniyar and Vellar. Tamil Nadu has a coastline of about 910 km (570 mi) which is the country's third longest coastline.

Climate:

The climate of Tamil Nadu is basically tropical. Due to its proximity to the sea, the summer is less hot and winter is less cold in plains, the maximum daily temperature is 44.4°C and the minimum temperature is 4.4°C. Tamil Nadu is mostly dependent on monsoon rains, and thereby is prone to droughts when the monsoons fail. The climate of the state ranges from dry sub-humid to semi-arid. The state has three distinct periods of rainfall:

- advancing monsoon period, south west monsoon from June to September, with strong southwest winds;
- North east monsoon from October to December, with dominant north east winds;
- Dry season from January to May.

The special feature of climatic conditions in Tamil Nadu is that the four seasons are not distinct and overlap with immediate next season. In the plains there is no winter season and in the hills summer is not severe allowing continuous production of horticultural crops in the state.

There are areas with temperature climate (above 2000 m), subtropical climate (1000 – 2000 m), humid tropical climate 500 – 1000m and tropical climate (upto 500 m) to accommodate all possible types of horticultural crops.

These overlapping seasons have made possible grapes to grow round the year, vegetables and spices in all possible crop rotations and systems of planting. Nearness to the equator and the presence of long stretch of Western Ghats, discontinuous Eastern Ghats and presence of hills and hillocks in the Plains help moderation of climate to ensure the required heat units and degree – days for growing different kinds of horticultural crops.

Agro-Climate Zones:

The Seven agro climate zones viz., Western, Southern, North Eastern, North Western, Cauvery Delta, High Rainfall, and Hilly zones possess conducive climatic conditions coupled with monsoon rains.

Agro climatic zones of Tamil Nadu

S. No.	Agro-climatic zone	District
1.	Western zone	1. Coimbatore
		2. Erode
		3. Dindigul
		4. Theni
2.	Southern zone	1. Madurai
		2. Ramanathapuram
		3. Tirunelveli
		4. Sivaganga
		5. Virudhunagar
		6. Thoothukudi
		7. Pudukottai
		8. Karur
3.	North Eastern Zone	1. Kancheepuram
		2. Thiruvallur
		3. Vellore
		4. Thiruvannamalai
		5. Cuddalore
		6. Villupuram
4.	North Western zone	1. Dharmapuri
		2. Krishnagiri
		3. Salem
		4. Namakkal
		5. Perambalur
		6. Ariyalur
5.	Delta Zone	1. Thanjavur
		2. Thiruvarur
		3. Nagapattinam
		4. Thiruchirapalli
6.	High Rainfall zone	1. Kanyakumari
7.	Hilly zone	2. Nilgiris

Broad classification of Horticultural Crops:

Horticulture crops are classified in to six categories viz., Fruit Crops, Vegetable Crops, Spices and Condiments, Plantation Crops, Flower Crops and Medicinal and Aromatic Plants.

Based on the climatic preferences they are classified as:

Tropical fruit Crops like Banana, Mango, Citrus, Grapes, Guava, Sapota, Papaya, Ber, Pomegranate, Fig, Amla, Custard apple and Pineapple and Sub-Tropical fruits like, Mangosteen, Phalsa, Avocado, etc., The state is the largest producer of bananas, flowers, tapioca, the second largest producer of mango, natural rubber, coconut, groundnut and the third largest producer of coffee, Sapota and Tea

Fruit crops:

Fruits crops which come up in cool temperatures and high altitudes are known as temperate fruits. In the hilly areas of Tamil Nadu, the commonly grown temperate fruit crops are Apple, Pear, Persimmons etc., Mango and banana are the leading fruit crops in Tamil Nadu accounting for over 87 per cent of the total fruit production.

Out of about 11.08 lakh ha. of Horticulture Crops in Tamil Nadu fruit crops account for 29.96%.

Vegetable Crops:

In Tamil Nadu, the major vegetable crops are Tapioca, Onion, Tomato, Brinjal, Potato, Lablab, Drumstick, etc.,

Out of about 11.08 lakh ha. of Horticulture Crops in Tamil Nadu, Vegetables crops are cultivated in 2.84 lakh ha. accounting for 25.63%.

Spices & condiments

Spices and Condiments constitute a very important group of horticultural crops. High income generation and foreign exchange earnings are possible through exports of spices. Spices and Condiments are grown in 1.73 lakh ha. In Tamil Nadu which is

around 15.61% of total Horticulture Crops. The important spices crops are Chillies (dried), Pepper, Turmeric, Tamarind, Cardamom, Cloves, etc.,

Plantation crops

Plantation Crops are ideally taken up on hill slopes or in valleys. The important Plantation Crops grown in Tamil Nadu are Tea, Coffee, Rubber, Cashew, Bamboo, Cocoa, etc., About 2.75 lakh ha of plantation crops are grown which account for 24.82% of total horticulture crops.

Flowers

The major area under flowers constitutes domestic flowers such as Jasmine, Crossandra, Tuberose, Chrysanthemum, etc., More than twenty different varieties of flowers are cultivated and all flowers are grown according to the prevailing climatic condition. With its varying climatic conditions in the hill ranges and plains, Tamil Nadu offers rich scope for production of various flower crops. Flower crops are grown in 0.32 lakh ha in Tamil Nadu out of 11.08 lakh ha of total Horticulture crops.

Medicinal & Aromatic Plants

Medicinal & Aromatic plants are grown in about 0.12 lakh ha. There is a positive approach for increasing the area in the forth coming years due to potential export value of Medicinal and Aromatic plants. The important Medicinal and Aromatic Plants grown in Tamil Nadu are lemon grass, senna, coleus, Glory lilly, Periwinkle and other plants.

Area, Production & Productivity of Horticultural Crops from 1980 – 81 to 2012 – 13

Sl.No.	Year	Area (Ha)	Prodn. (MT)	Prodty. (MT/Ha)
1.	1980 – 81	461644	4477937	9.07
2.	1981 – 82	548175	4084025	7.45
3.	1982 – 83	568304	4321640	7.06
4.	1983 – 84	563153	4631285	8.22
5.	1984 - 85	595346	5470365	9.19
6.	1985 – 86	597261	5311432	8.89
7.	1986 - 87	583652	5384020	9.22
8.	1987 – 88	614713	5859205	9.53
9.	1988 – 89	598989	6302870	10.52

10.	1989 – 90	615230	7299993	11.87
11.	1990 – 91	603873	7087220	11.74
12.	1991 - 92	628789	7936149	12.62
13.	1992 - 93	676858	7395789	10.93
14.	1993 – 94	718428	9061152	12.61
15.	1994 – 95	717219	10142494	14.14
16.	1995 – 96	688478	9727361	14.13
17.	1996 - 97	722931	8779207	12.14
18.	1997 - 98	764127	11128371	14.56
19.	1998 - 99	786442	9837041	12.51
20.	1999 – 2000	834545	9927608	11.89
21.	2000 – 01	850222	11529792	13.56
22.	2001 – 02	852645	11715345	13.74
23.	2002 – 03	777172	9168424	11.79
24.	2003 – 04	824586	9945502	12.06
25.	2004 – 05	858552	12617300	14.70
26.	2005 – 06	890189	14126277	15.89
27.	2006 – 07	922017	16093071	17.45
28.	2007 – 08	930902	16203786	17.41
29.	2008 - 09	985591	16145197	17.4
30.	2009 – 10	922005	14309053	15.52
31.	2010 – 11	940395	14838629	15.78
32.	2011 - 12(P)	1108685	20264148	18.67
33	2012-13(E)	1255816	24344389	19.39

NATIONAL HORTICULTURE MISSION-Achmt upto September- 2013							
STATE :TAMIL NADU							
				Rupees in lakhs			
Sl. No.	Name of the Component	Unit	Unit cost	Target		Achievement	
				Physical	Finance	Physical	Finance
	B. PLANTATION INFRASTRUCTURE & DEVELOPMENT:						
1	Production of planting Material:						
	(a) Public sector:						
	i. Model nursery (4 ha) SHFs	No.	25	1	25	0	0
	ii Small Nursery (1 Ha) SHFs	No	6.25	2	12.5	0	0
	iii.Vegetable seed production	Ha.	0.5	30	15	17	5.5
	Sub Total:			33	52.5	17	5.5
	(b) Private sector:						
	i. Small Nursery (1 ha.)	No.	3.125	5	15.625	0	0
	ii. Setting up of new TC units/ Strengthening of existing Tissue Culture Unit	No.	50	5	167.1		0
	iii.Vegetable seed production	No.	0.25	50	12.5		0
	Sub Total:			60	195.225	0	0
	TOTAL			93	247.725	17	5.5
2	Establishment of new gardens (ha.): 1st yr						
	High Density Mango	Ha.	0.24	800	192	424.25	80
	High Density Guava	Ha.	0.18833	100	18.833	6	1.12998
	Cost Intensive - Grapes	Ha.	0.3	50	15	23	6.9
	Cost Intensive - Mandarin Orange	Ha.	0.3	100	30	77	23.1
	Normal Spacing - Mango	Ha.	0.099	1000	99	516.4	25.8
	Normal Spacing - Papayya	Ha.	0.24652	200	49.304	51	12.573
	Normal Spacing - Acid Lime	Ha.	0.1503	500	75.15	231.5	34.7945
	Sub Total:			2750	479.287	1329.15	184.297
	Maintanence 2nd year						
	High Density Mango	Ha.	0.08	764	61.12	360	18.8
	Cost Intensive - Grapes	Ha.	0.1	20	2	20	2
	Cost Intensive Mandarin Orange	Ha.	0.1	25	2.5	20	2
	Normal Mango	Ha.	0.033	1000	33	414	13.662
	Normal Acid Lime	Ha.	0.0501	250	12.525	67	3.3567
	Sub Total:			2059	111.145	881	39.8187
	Maintanence 3rd year						
	High Density Mango		0.08	2500	200	712	45.96

	High Density Guava		0.06278	75	4.7085	17	1.06726
	Sub Total:			2575	204.7085	729	47.0273
	Fruits (Non-Perennials)						
	Banana (TC) 1yr Sub Total:	Ha.	0.31202	1200	374.424	0	0
	Proposal for establishment of Mushroom Unit	Nos	25	2	50	0	0
	Flowers:						
	(A) Cut Flowers:						
	a. Small & Marginal Farmers	Ha.	0.35	150	52.5	60	21
	(B) Bulbous Flowers:						
	a. Small & Marginal Farmers	Ha.	0.45	500	225	353	125.85
	(C) Loose Flowers:						
	a. Small & Marginal Farmers	Ha.	0.12	800	96	546.35	35.562
	Sub Total:			1452	423.5	959.35	182.412
	Spices:						
	Ginger	Ha.	0.125	100	12.5	61	7.625
	Chillies	Ha.	0.125	700	87.5	40.390625	5.04883
	Turmeric	Ha.	0.125	1300	162.5	780	67.5
	Clove / Nutmeg	Ha.	0.2	50	10	11	2.2
	Black Pepper	Ha.	0.2	1000	200	393.4	78.68
	Sub Total:			3150	472.5	1285.79063	161.054
	Aromatic Plants:						
	Rosemary / Geranium:	Ha.	0.375	15	5.625	8	3
	Citronella / Thyme / Origanum:	Ha.	0.125	50	6.25	100	12.5
	Sub Total:			65	11.875	108	15.5
	Plantation crops:						
	Cashew 1 yr	Ha.	0.12	860	103.2	576	69.12
	Cashew 2 yr	Ha.	0.04	1000	40	478	19.12
	Cocoa 1 yr	Ha.	0.12	740	88.8	326	39.12
	Cocoa 2 yr	Ha.	0.04	1000	40	324.5	12.98
	Sub Total:			3600	272	1704.5	140.34
	New Garden Total:			10217	1953.586	4584.29063	651.503
	Maintenance Total:			6634	395.8535	2412.5	118.946
3	Rejuvenation/ replacement of senile plantation including Canopy management:						
	Mango	Ha.	0.15	3950	592.5	467	50.05
	Cashew	Ha.	0.15	4050	607.5	1930	167.5
	Sub Total:			8000	1200	2397	217.55
4	Protected cultivation:						
	1. Green house:						
	Tubular structure	Sq.m	0.00467	460000	2150.5	120080	160.774
	Anti Bird / Anti Hail Nets	Sq.m	0.0001	220000	22	9	0.0009

	Tubular structure (shadenet)	Sq.m	0.003	80000	240	9600	28.8
	Cost of Planting for Material for Flower of PGH	Sq.m	0.0025	130000	325	15500	38.75
	Cost of Planting for Material for Vegetable of PGH	Sq.m	0.00053	160000	84.035	2000	1.06
	Plastic Mulching	Sq.m	0.1	1300	130	117	11.7
	Sub Total:			1051300	2951.535	147306	241.085
5	Promotion of INM / IPM: a. Bio - control Lab.	Ha.	0.01	1000	10	0	0
	BIO Control Lab	Nos		3	117.5		0
	Sub Total:			1003	127.5	0	0
6	Organic Farming:						
	Adoption of organic farming 1 Yr	Ha.	0.04	1500	60		0
	Certification (1 yr) /50 Ha/Unit	Project	1.5	20	30	0	0
	Vermi compost units (permanent structure)	No.	0.3	200	60	60	18
	Vermi compost units (HDPE Vermi bed)	No.	0.05	400	20	40	2
	Sub Total:			2120	170	100	20
7	Pollination support through beekeeping:						
	(a)Honey bee colony	No.	0.007	5000	35	155	1.085
	(b) Hives	No.	0.008	5000	40	155	1.24
	(c) Equipment including honey extractor (4 frame), food grade con tainer (30Kg), net, etc.	No.	0.07	200	14	0	0
	Sub Total:			10200	89	310	2.325
8	Horticulture Machanization:						
	(a) Power operated machines/ tools including power saw and plant protection equipment etc.	Set	0.175	1000	175	11	1.925
	(b) Power Machines (Upto 20 BHP) with equiment	Set	0.6	80	48	0	0
	(c) Power machines (20 HP & above including accessories/ equipments	No.	1.5	150	225	7	10.5
	Sub Total:			1230	448	18	12.425
9	Technology Dissemination through demonstration/ Front Line Demonstratrion (FLD - Public Sector)	No.	25	1	25	0	0
	Sub Total:			1	25	0	0
10	HRD including horticulture institute:						
	(c)Training of farmers						
	(i) Within the District	Nos.	0.02	3500	70	0	0
	(ii) Within the State	Nos.	0.0375	1500	56.25	0	0

	(iii) Outside the State	Nos.	0.05	500	25	0	0
	(e) Exposure visit of farmers						0
	(ii) Within the State	Nos.	0.015	3000	45	0	0
	(iii) Outside the State	Nos.	0.03	2000	60	0	0
	(f) Training / study tour of technical staff / field functionaries:						0
	(i) Within the State	Nos.	0.004	500	2	0	0
	(ii) Study tour to progressive States/ Unit (group of minimum 5 participants)	Nos.	0.0455	250	11.375	0	0
	(iii) Out side India	Nos.	5	10	50	0	0
	Sub Total:			11260	319.625	0	0
11.a	POST HARVEST MANAGEMENT:						
	1. Pack houses	Nos.	1.5	60	90	3	0
	2. Pre -cooling units	Nos.	6	15	90	0	0
	3. Processing Unit	Nos.	9.6	50	480	0	0
	3. Cold storage Units (consturction)	MT	0.024	5	420	0	0
	6. Refer vans/ containers	Nos.	9.6	1	9.6	0	0
	Sub Total:			131	1089.6	3	0
11.b	ESTABLISHMENT OF MARKETING INFRASTRUCTURE FOR HORTICULTURAL PRODUCE:						0
	Functional Infrastructure / TMC Perundurai, Erode District - 1st release	Nos		2	758.113	0	0
	Sub Total:			2	758.113	0	0
12	MISSION MANAGEMENT						
	State level						
	1.State & Districts Mission Offices and implementing agencies for administrative expenses, project preparation, computerization, contingency etc.			0	553.23		140.778
	a) State level (Seminar, Conference, Workshop, Exhibition, Kissan Mela, Horticulture Show etc..)		3	2	6	0	0
	b) District level (Seminar, Conference, Workshop, Exhibition, Kissan Mela, Horticulture Show etc..)		2	11	22	0	0
	Sub Total			13	581.23	0	140.778
14	PROJECTS AND NATIONAL SEMINOR						
	INDO-ISRAEL Projects:						
	Centre of excellance for cutflowers	Nos	880	1	400		0

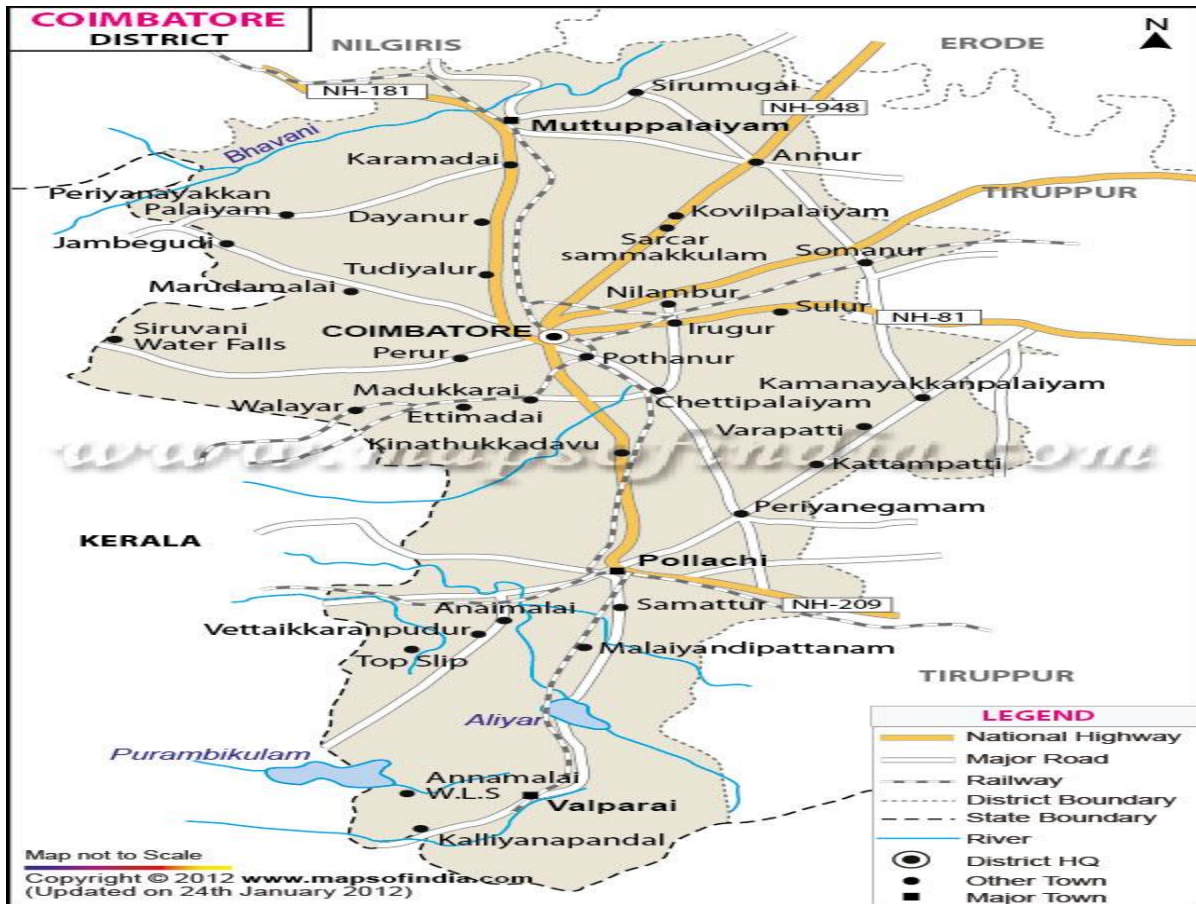
	Centre of excellence for vegetables	Nos	1018	1	500		9.05
	Fabrication and performance evolution of thresher for onion umbels and cleaner for Onion seeds	Nos	14.52	1	14.521		0
	Spices Board Proposals for Pepper	Nos	1503.78	1	228.75		0
	2012-2013 Projects fund release			0			153.37
	Sub Total:			4	1143.271	0	162.42
	Final Grand Total:				11500.000		1572.53

Details about Tissue Culture Units present in Tamil Nadu						
S. No	Name & Location of the TC Unit	TC plants produced (banana, chrysanthemum, other ornamentals etc)	Crop wise varieties being produced/year	Number of TC plants produced per year (Crop wise) Nos in Lakhs	Whether any subsidy assistance has been availed from Government(NHM/NHB/ Others), If yes, give details	Whether obtained Certificate from Dept of Bio Technology
1	Christy Agro Tech, 4/181, Chokkanathanpatti, lynthamkallalai Village, Alangulam Taluk, Tirunelveli district	Banana	Grand Naine	7.00	Rs.38.59 Lakhs has been received as subsidy under NHM	Yet to be obtained
2	Greenia Bio Tech, 7J, Ramalingam Road, Dharmapuri	Banana	Grand Naine	9.60	Project approved under NHM for a subsidy of Rs.7.15 Lakhs. Subsidy is to be released after completion of project	Yet to be obtained
			Nendran			
			Yelaki	2.37		
		Gerbera	Hybrid	1.00		
3	Thulasi Bio Tech, M.K.Vattam, Yelagiri Village, Jolarpet, Vellore district	Banana	Grand Naine	32.00	Assistance not availed	DBT Certificate obtained
4	Spic Agro Biotech center, chithiraichavadi, pooluvapatty (p.o) siruvani road coimbatore-641101	Banana	Grand Naine	20.00	Assistance not availed	DBT Certificate obtained
			Nendran	2.00		
			Red Banana	2.00		
		Gerbera	Gerbera-5 Colours	10.00		

5	Sunglow Biotech, 12/14 Vadapati road, Perur (P.o), Coimbatore-641010	Banana	Grand Naine	30.00		DBT Certificate obtained
			Red Banana	10.00		
			Nendran	10.00		
			Monthan	2.00		
			Karpuravalli	2.00		
			Rasthali	1.00		
		Ornamental plants & Medicinal plants		10.00		
6	Jay Blossom Bio Tech, 614/11, Jonabanda Road, O.Karepalli, Hosur, Krishnagiri	Banana	Grand Naine	20.00	Approved Rs. 37.50 lakhs as subsidy under NHM. Will be released after final inspection.	Applied for DBT Certificate
			Red Banana	1.00		
			Yelaki	1.00		
7	Shrushti Bio Labs, Saragapalli Village, Hosur, Krishnagiri	Banana	Grand Naine	15	Approved Rs. 46.50 lakhs as subsidy under NHM. Will be released after final inspection.	Applied for DBT Certificate
		Limonium		1.5		
		Coleus		0.15		
		Gypsophila		0.15		
8	Grow More Bio Tech, 41B, New SIPCOT II, Krishnagiri Road, Hosur, Krishnagiri district.	Banana	Grand Naine	10.00	Assistance availed under NHB Rs. 8.00 laks	DBT Certificate obtained
		Bamboo	Thornless	35.00		
		Limonium		2.00		
		Sugarcane	COC 86032	3.00		
9	Genewin Bio Tech, Bangalore Highway, Perandapalli, Hosur, Krishnagiri district	Banana	Grand Naine	60.00	Assistance availed under NHB Rs. 8.872 lakhs, approved Rs.7.50 lakhs for strengthening of lab under NHM	DBT Certificate obtained
		Bamboo	Thornless	10.00		
10	Kodeeswaran Bio Tech, H 41, TNHB phase 9, Hosur	Banana	Grand Naine	15.00	No assistance availed	DBT Certificate obtained
			Red Banana	3.00		
11	Hosur Horti Tech, Plot No 31, Thanigai Nagar phase 1, Santhapuram Road, Chinna Elathagiri, Hosur, Krishnagiri district	Banana	Grand Naine	10.00	No assistance availed	DBT Certificate obtained
			Red Banana	2.00		

Supply of Tissue Culture Banana Plants through TANHOPE FROM 2007-08			
S. No.	Year	Name of the Firm	Quantity Supplied (in Nos)
1	2007-08	G.Nagaraj Nursery Garden	88050
		Sunglow Biotech - Coimbatore	217285
		Sub Total	305335
2	2008-09	G.Nagaraj Nursery Garden	39429
		Sunglow Biotech - Coimbatore	44900
		Sub Total	84329
3	2009-10	G.Nagaraj Nursery Garden	179937
		Sunglow Biotech - Coimbatore	74810
		Sub Total	254747
4	2010-11	JSA Agrotech, Vellore	1752317
		Sunglow Biotech - Coimbatore	1473973
		Sub Total	3226290
5	2011-12	Agri Vitro Tech Laborate Secundrabad	475889
		Ace Agro Technologies Secandrabad	1154454
		Grow more Biotech Ltd., Hosur	111753
		Sub Total	1742096
6	2012-13	Ace Agro Technologies Secandrabad	465689
		Agri Vitro Tech Laborate Secundrabad	1783934
		Grow more Bio tech Ltd, Hosur.	417410
		Sub Total	2667033
		Grand Total	8279830

District: Coimbatore



Introduction

Coimbatore District, the Manchester of South India, comprises of 7 Taluqs with 12 Blocks with an area of 3670 Sq.Kms. It lies between 10°10'- 11°30' in the North Latitude and 76°40' and 77°33' in the East Longitude and is bound on the north by the Nilgiris District, east by Erode district, south by Tiruppur District and west by Palakkad.

Climate

The climate as a whole in this district is moderate with maximum and minimum temperature ranging between 40 C and 15 C respectively.

Rainfall

The average rain fall is below 500 mm with exceptional cases of 90 mm to 1200 mm in high range of the district such as Vellingiri and Anaimalai ranges. It is favoured with the rains from both south West monsoon and North East monsoon.

AREA PRODUCTION AND PRODUCTIVITY OF HORTICULTURE CROPS				
S.No	Crops	Area in Ha	Production(MT/Ha)	Productivity (MT/Ha)
I	Fruits			
1	Mango	2644	15865	6
2	Banana	9617	288506	30
3	Sapota	213	4268	20
4	Amla	440	15404	35
	Total	12914	324043	
II	Vegetables			
1	Tomato	3033	90989	30
2	Brinjal	440	13195	30
3	Tapioca	600	20987	35
4	Beetroot	127	3818	30
5	Onion	958	11493	12
6	Bhendi	346	5183	15
	Toal	5504	145665	
III	Spices			
1	Chillies	801	801	1
2	Turmeric	1285	15416	12
3	Tamarind	599	3595	6
4	Curryleaf	1376	2752	2
5	Coriander	358	429	1
	Total	4419	22993	
IV	Plantation Crops			
1	Arecanut	1651	5780	4
2	Cashew	111	311	3
3	Tea	11049	55245	5
	Total	12811	61336	
V	Flowers			
1	Rose	22	199	9
2	Jasmine	158	1577	10
3	Mullai	207	2075	10

4	Jathi Mullai	248	2477	10
5	Marigold	59	1062	18
6	Celosia	30	118	4
	Total	724	7508	
VI	Medicinal Crops			
1	Aloe vera	20	601	30
2	Coleus	5	96	20
3	Thulasi	60	716	12
	Total	85	1413	

FINANCIAL DETAILS		
Year	Amount Released	Amount Utilised
2005-06	193.051	104.709
2006-07	113.690	109.154
2007-08	349.460	216.838
2008-09	728.946	524.222
2009-10	419.077	708.583
2010-11	452.115	532.868
2011-12	339.317	339.317
2012-13	84.560	70.240
2013-14	100.561	4.609

NATIONAL HORTICULTURE MISSION 2013 - 14							
COMMITTED EXPENDITURE TILL NOVEMBER 2013							
District : Coimbatore							
Sl. No.	Name of the Component	Unit	Target		Achievement	Fin - (in Rs.Lakhs)	
			Physical	Finance	Physical	Finance	Remarks

1	Production of planting Material:	Nos./hec	0	0.000	0	0.000	
2	a.Establishment of new gardens	hec	510	94.833	354	20.286	
	Fruits perennials-Mango 1st year	hec	20	1.980	20	0.846	
	Fruits perennials-High density Mango 1st year	hec	10	2.400	10	1.440	
	Fruits (Non perenial)-TC Banana	hec	150	46.803	0	0.000	
	Flowers-Looose flowers	hec	20	2.400	20	0.000	
	Flowers-Bulbous flowers	hec	10	4.500	4	0.000	
	Spices - Turmeric	hec	150	18.750	150	15.000	
	Plantation crops – Cocoa 1 st year	hec	150	18.000	150	3.000	
	b.Maintanence	hec	160	6.400	160	0.640	
3	Rejuvenation/ replacement of senile plantation including Canopy management:	hec	100	15.000	0	0.000	
4	Protected cultivation:	sq.mtr/ Nos.	10050	51.750	6010	29.050	
5	Promotion of INM / IPM	Nos	50	0.500	0	0.000	
6	Organic Farming:	hec/ Nos.	45	6.000	28	0.600	
7	Pollination support through bee keeping:	Nos.	600	4.500	0	0.000	
8	Horticulture Machanisation	Nos.	0	0.000	0	0.000	
9	Technolony Dissemination through demonstration	Nos.	0	0.000	0	0.000	
10	HRD including horticulture institute:	Nos.	150	3.000	0	0.000	
11	Post Harvest Management		1	0.000	0	0.000	
12	Market Infrastructure	Nos.	0	0.000	0	0.000	
13	Mission Managemnt Fund	Nos./ Rs.	0	0.000	0	0.000	
14	INDO-ISRAEL Projects / Spices Board / TNAU projects:	Nos.	0	0.000	0	0.000	
	Grand Total:		11666	181.983	6552	50.576	
	Abstract						
	Fund Release						54%
	Scheme Activities (1)			93.561		50.576	
	Mission Management fund			7.000		0.969	

Field Visit

Beneficiary No.1

NATIONAL HORTICULTURE MISSION - PROTECTED CULTIVATION : HI-TECH POLYGREEN HOUSE		
Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	S.P.Muthuveerappan, S/o Subbaiyan, Pogaloor, Annur Block
2	Total land available with the beneficiary (ha).	1.30
3	Type of Protected cultivation activity (Hi-tech/Normal GH. Shade net, Plastic tunnel)	Hi- Tech Poly Green House
4	Year of establishment	2013-14
5	Size of Structure (Sq. m)	1000 Sq.Mt
6	Total Cost	Rs.9,87,840
7	Agency involved in fabrication and Installation	HR Traders, Bangalore
8	Total subsidy paid and date of payment.	Yet to be released
9	Crop being grown	New Structure, crop yet to be grown
10	Condition of Structure	Good
11	Condition of Crop	Crop yet to be raised (proposed crop Cucumber)
12	Tie up with market	Pazhamuthir Nilayam and Annapoorna Hotel.
13	General upkeep (Very good/ Good/ Average/ Poor)	
14	Any other relevant observation by JIT.	

Observation

The unit (1000 sqm) has been constructed during 2013-14 and is being prepared for raising the Cucumber crop.

Beneficiary No.2

Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	S.P. MALARVIZHI W/o Subbaiyan Pogaloor Annur Block
2	Total land available with the beneficiary (ha).	1.82
3	Type of Protected cultivation activity (Hi-tech/Normal GH. Shade net, Plastic tunnel)	Poly Green House
4	Year of establishment	2012-13
5	Size of Structure (Sq. m)	1000 Sq.Mt
6	Total Cost	Rs.7,43,600.00
7	Agency involved in fabrication and Installation	HR Traders, Bangalore
8	Total subsidy paid and date of payment.	Rs. 3,25,000 Dated 4-4-2013
9	Crop being grown	Cucumber var. Taxi
10	Condition of Structure	Good
11	Condition of Crop	Harvesting Stage
12	Tie up with market	Pazhamuthir Nilayam and Annapoorna Hotel.
13	General upkeep (Very good/ Good/ Average/ Poor)	
14	Any other relevant observation by JIT.	

Observation

- The beneficiary has taken one unit (1000 sqm) during 2012-13 and is now ready for planting.

Beneficiary No.3

Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	R. PONNUSAMY S/o Rammana Gr. Kanuvakarai Annur Block
2	Total land available with the beneficiary (ha).	4.61
3	Type of Protected cultivation activity (Hi-tech/Normal GH. Shade net, Plastic tunnel)	Mulching
4	Year of establishment	2011-12
5	Size of Structure (Sq. m)	2.00 Ha
6	Total Cost	Rs. 55,200
7	Agency involved in fabrication and Installation	Nonjune company, Bangalore
8	Total subsidy paid and date of payment.	Rs. 20,000
9	Crop being grown	Muskmelon
10	Condition of Structure	Good
11	Condition of Crop	Harvesting Stage
12	Tie up with market	Tie up with JNOWN.YOU, Company NewDelhi.
13	General upkeep (Very good/ Good/ Average/ Poor)	
14	Any other relevant observation by JIT.	

Observation

- Farmer felt happy about 100% increase in yield of muskmelon & watermelon with mulching and drip irrigation and also there is quality improvement.
- Drip irrigation has helped in increasing the yield of papaya and saving in water & labour. The variety sown is red lady.

Beneficiary No.4

Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	P.PALANISAMY s/o Ponnusamy Gr. Kanuvakarai Annur Block
2	Total land available with the beneficiary (ha).	5.00
3	Type of Protected cultivation activity (Hi-tech/Normal GH. Shade net, Plastic tunnel)	Mulching
4	Year of establishment	2011-12
5	Size of Structure (Sq. m)	2.00 Ha
6	Total Cost	Rs. 55,200
7	Agency involved in fabrication and Installation	Nonjune company, Bangalore
8	Total subsidy paid and date of payment.	Rs. 20,000
9	Crop being grown	Muskmelon
10	Condition of Structure	Good
11	Condition of Crop	Harvesting Stage
12	Tie up with market	Tie up with JNOWN.YOU, Company NewDelhi.
13	General upkeep (Very good/ Good/ Average/ Poor)	
14	Any other relevant observation by JIT.	

Observations

- Farmer felt happy about 100% increase in yield of muskmelon & watermelon with mulching and drip irrigation and also there is quality improvement.
- Drip irrigation has helped in increasing the yield of papaya and saving in water & labour. The variety sown is red lady.

Beneficiary No. 5

Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	R. DEVARAJ S/o Ramachandran SMC Palayam,MGC Palayam Annur Block
2	Total land available with the beneficiary (ha).	10.00 Ha
3	Mechanization	Turmeric Boiler
4	Year	2012-13
5	Size of Structure (Sq. m)	One Unit with four boiler
6	Total Cost	Rs. 27300
7	Agency involved in fabrication and Installation	SMM Mechinary and Fabrications GN mills stop, Thudiyalur Coimbatore
8	Total subsidy paid and date of payment.	Rs. 5,000
9	Crop being grown	Turmeric
10	Condition of Structure	Good
11	Condition of Crop	Growing stage
12	Tie up with market	Own use
13	General upkeep (Very good/ Good/ Average/I Poor)	
14	Any other relevant observation by JIT.	

Observation

TNAU designed turmeric boiler is fuel and labour efficient and time saving also. It has uniform boiling of turmeric.Need to be propogated in other turmeric growing areas also.

Beneficiary No.6

Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	R. PONNUSAMY S/o Rammana Gr. Kanuvakarai Annur Block
2	Total land available with the beneficiary (ha).	4.61
3	Typr of MI system availed Drip/Sprinkler	Drip irrigation system
4	Crops covered	Banana
5	Total area covered	4.51 ha
6	Crop spacing (for drip)	1.80m X 0.60 m
7	Year	2012-13
8	Name of manufacturer / supplier	Netafim irrigation system
9	Total subsidy paid and date of payment.	Rs. 1,30,979
10	Condition of MI system	Good
11	Condition of Crop	
12	Tie up with market	
13	General upkeep (Very good/ Good/ Average/I Poor)	
14	Any other relevant observation by JIT.	

Beneficiary No.7

Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	P.PALANISAMY S/o Ponnusamy Kanuvakarai Annur Block
2	Total land available with the beneficiary (ha).	5.00 Ha
3	Typr of MI system availed Drip/Sprinkler	Drip irrigation system
4	Crops covered	Banana
5	Total area covered	5.00 ha
6	Crop spacing (for drip)	1.80m X 0.60 m
7	Year	2012-13
8	Name of manufacturer / supplier	Netafim irrigation system
9	Total subsidy paid and date of payment.	Rs. 1,44,008
10	Mode of payment	Cheque no. 766767/8-10-10
11	Condition of Crop	Papaya
12	Tie up with market	
13	General upkeep (Very good/ Good/ Average/I Poor)	
14	Any other relevant observation by JIT.	

Beneficiary No. 8

S. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	B. MURUGAIYAN S/o Pettaiah Gr. Pettathapuram, P N Palayam Block
2	Total land available with the beneficiary (ha)	1.17 ha
3	Crop Cluster under which covered.	AEP - HDP Mango 1.00 ha
4	Name & variety of crop planted.	Mango - var. Alphonso, Banganapalli, Himampasand.
5	Source of planting material,	State Horticulture Farm karumandurai

6	Number of planting material.	400
7	Number of plants planted.	400
8	Date of planting with survival (also indicate percentage survival).	21-12-2011
9	Total amount of subsidy assistance due to the beneficiary	1st year - Rs.23,975, 2nd year- 9997.30
10	Amount paid and date of payment.	1st year - Rs.1,800 Dt. 23-3-11, 2nd year- 2350
11	Mode of payment.	ECS
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Bore well
13	Whether Drip/ Sprinkle System in use.	Drip irrigation
14	Other inputs provided	1st year- Vermicompost - 200 kg, Azospirillum- 8 kg, Phosphobacteria- 8 kg, Pot. Nitrate- 10 kg, All 19- 10 kg, Car+mancozeb- 1.25 kg, Imida- 1Lt 2nd year- All 19- 19 kg, Car+mancozeb- 0.5 kg, Vam - 3 kg
15	Whether assistance available for Organic Farming	
16	If so, area covered	
17	Assistance available	
18	Available marketing facility for the crop.	Local market
19	Other infrastructure available in the vicinity.	
20	General upkeep of the plot; Very good/ Good / Average/ Poor.	
21	Any other relevant observation by the JIT.	

Observation:

- Three varieties namely Alphonso, Mulgoa and Imampasand have been planted during 2011-12. Drip irrigation has also been provided under NHM. The growth of plants is satisfactory. Improvement is training of plants and canopy management is required.

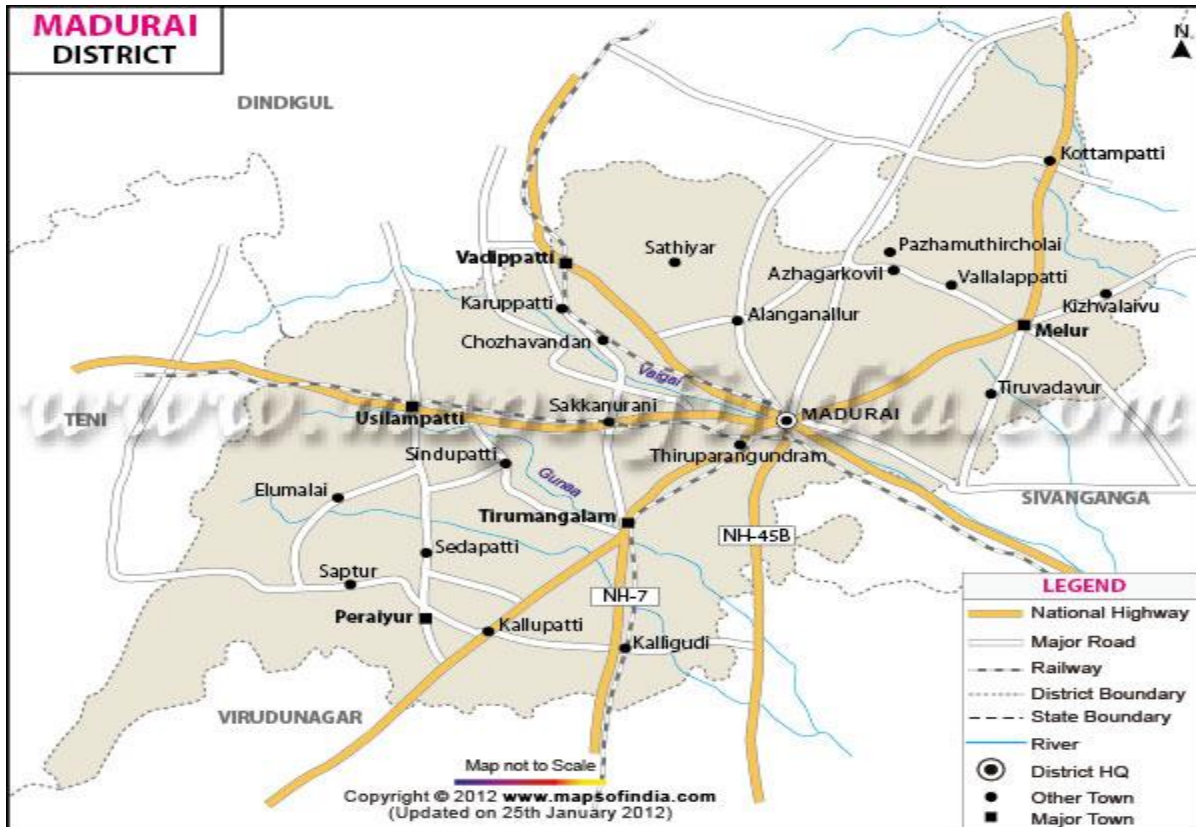
Beneficiary No. 9

Sl.No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	B. MURUGAIYAN S/o Pettaiah Gr. Pettathapuram, P N Palayam Block
2	Total land available with the beneficiary (ha).	1.17 ha
3	Typr of MI system availed Drip/Sprinkler	Drip irrigation system
4	Crops covered	Mango
5	Total area covered	1.00 ha
6	Crop spacing (for drip)	5m x 5m
7	Year	2010-11
8	Name of manufacturer / supplier	Finolex Plasson Industries Ltd
9	Total subsidy paid and date of payment.	Rs 21320/-
10	Mode of payment	Cheque no 717047
11	Condition of Crop	Vegetative phase
12	Tie up with market	
13	General upkeep (Very good/ Good/ Average/I Poor)	
14	Any other relevant observation by JIT.	

Coimbatore district photographs



District: Madurai



Introduction

Madurai District is located in Tamilnadu at South central region and it is gate way to southern districts. The Southern boundary is Virudhunagar district. It is situated between Northern latitude $9^{\circ}30'$ and $10^{\circ}30'$ also between East longitude $77^{\circ}28'$ AND $78^{\circ}28'$ Madurai District is at 147M above M.S.L. The General slope of Madurai District is from west to east.

Madurai District consists of 7 Taluks which includes 13 blocks. Further the blocks are divided into 51 firkas which consists of 665 villages. The total geographical area of the District is 3741. 73 km and this occupies 2.9% of the total area of Tamil Nadu. The Major crops grown in this district are paddy, groundnut, cotton, pulses, mango, banana, Guava, aonla, sapota, vegetables, flowers and medicinal plants such as Senna and Nithyakalyani.

Weather and climate

This District has tropical climate. The maximum temperature ranging from 32°C to 39°C. The minimum temperature ranges from 17°C to 23°C. The variation between day and night temperature is very narrow in this region. The average weather condition prevailing in this district is as follows.

Maximum temperature	-	39.°C
Minimum temperature	-	23.°C
Sunshine hours	-	8.4 hrs. / day
Rainfall	-	851.3 mm
Relative humidity	-	75%
Wind velocity	-	5.5 km/hr.

Soil Types

1. Madurai North, Madurai South, Vadipatti Taluks	-Clay soil, Red soil
2. Tirumangalam, Usilampatti Taluks	-Black soil, Red soil
3. Melur, Kottampatti Taluks	-Clay Black soil, Red soil

Irrigation Sources

Vaigai river is flowing through this district which originates in western ghats is the major source of irrigation. Sources of irrigation are tanks wells and bore wells.

Field Visit

Beneficiary No. 1

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	R. Balu, S/o /ranasamy, T. Mettupatti
2	Total land available with the beneficiary (ha)	0.37.0
3	Crop Cluster under which covered.	Tuberose
4	Name & variety of crop planted.	Tuberose-local
5	Source of planting material,	Kuttimeikkipatti Village

6	Number of planting material.	450 Kg Bulbs
7	Number of plants which survived (also indicate percentage survival).	100%
8	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 13482/- for 0.30.0 Ha
9	Amount paid and date of payment.	Rs 10200/- 2.4.2013
10	Mode of payment.	NEFT to Beneficiary account Number
11	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Well
12	Whether Drip/ Sprinkle System in use.	No
13	Other inputs provided	Urea-135 kg, super-90 kg, Potash-30 kg (Value: Rs 1907) & Pesticides Value Rs 1375
14	Whether assistance available for Organic Farming	No
15	If so, area covered	No
16	Assistance available	No
17	Available marketing facility for the crop.	Madurai Flower Market
18	Other infrastructure available in the vicinity.	Nilakottai Market
19	General upkeep of the plot; (Very good/ Good / Average/ Poor)	
20	Any other relevant observation by the JIT.	

Observations

- According to the beneficiary Tuberose cultivation is very much remunerative in the area. The crop is very good and farmer feels encouraged.

Beneficiary No. 2

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Machakalai S/o Peyagownder, T. Karadikal
2	Total land available with the beneficiary (ha)	0.92.5
3	Crop Cluster under which covered.	I Crop- Ribbed Gourd (Ragini) II Crop- Snake Gourd (Co 2)
4	Name & variety of crop planted.	Ribbed Gourd- Horticulture Department, Snake Gourd-Private
5	Source of planting material,	100%
6	Number of planting material.	Rs 77800/-
7	Number of plants which survived (also indicate percentage survival).	Rs 75000 given as back ended subsidy on 27.3.2013
8	Total amount of subsidy assistance due to the beneficiary as (Rs.)	ECS to beneficiary Account
9	Amount paid and date of payment.	Bore well
10	Mode of payment.	No
11	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Seeds-Ribbed Ground- Hybrid Ragini- 0.900 kg
12	Whether Drip/ Sprinkle System in use.	No
13	Other inputs provided	No
14	Whether assistance available for Organic Farming	No
15	If so, area covered	Madurai Market
16	Assistance available	Nilakottai Market at Dindigul District
17	Available marketing facility for the crop.	
18	Other infrastructure available in the vicinity.	

Observations

- The farmer is extremely happy to get huge income from this barren land using pandal cultivation. The growth of standing crop of vegetable namely: Lablab is also very good.

Beneficiary No. 3

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Vembulu S/o Bomminayakkar, T.Karadikal
2	Total land available with the beneficiary (ha)	0.51.0
3	Crop Cluster under which covered.	I Crop- Ribbed Gourd (Ragini) II Crop- Lablab
4	Name & variety of crop planted.	Ribbed Gourd- Horticulture Department, Lablab-Private
5	Source of planting material,	100%
6	Number of planting material.	77800/-
7	Number of plants which survived (also indicate percentage survival).	Rs 75000 given as back ended subsidy on 27.3.2013
8	Total amount of subsidy assistance due to the beneficiary as (Rs.)	ECS to beneficiary Account
9	Amount paid and date of payment.	Bore well
10	Mode of payment.	No
11	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Seeds-Ribbed Ground- Hybrid Ragini- 0.900 kg
12	Whether Drip/ Sprinkle System in use.	No
13	Other inputs provided	No
14	Whether assistance available for Organic Farming	No
15	If so, area covered	Madurai Market
16	Assistance available	Nilakottai Market at Dindigul District
17	Available marketing facility for the crop.	
18	Other infrastructure available in the vicinity.	

Observations

- The farmer is extremely happy to get huge income from this barren land using pandal cultivation. The growth of standing crop of vegetable namely: Lablab is also very good

Beneficiary No. 4

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	R. Ilangovan, S/o M.S. Rajan, T. Mettupatti
2	Total land available with the beneficiary (ha)	0.73.0
3	Type of MI system availed Drip/ Sprinkler.	Drip System (100% Subsidy)
4	Crop (s) covered	Mango
5	Total area covered (ha)	0.60.0
6	Crop Spacing (for drip)	6m X 6m
7	Year of establishment	2013-14
8	Name of Manufacturer/ Supplier	ELGI Ultra
9	Total subsidy paid & date of payment	Rs 15930/- Yet to be released
10	Mode of payment.	NEFT to MI Company
11	Status of crop	Good
12	General upkeep very good/good/ average/poor)	
13	Any other relevant observation of JIT	

Observations

- The crop growth is good with this drip irrigation. Mortality is about 26 plants and shall be replaced soon by the beneficiary.

Beneficiary No. 5

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Manju W/o Sakhtimanikandan, T. Mettupatti
2	Total land available with the beneficiary (ha)	1.05.0
3	Type of Machinery provided	Tractor – Mahindra 475 DI
	Value	Rs 555450
4	Year	2012-13
5	Total subsidy Given & date of payment	Rs 150000/- 10.4.2013
6	Mode of payment.	Back ended subsidy to Tractor supplier
7	General upkeep very good/good/average/poor)	
8	Any other relevant observation of JIT	

Observations

- The beneficiary has been paid Rs. 150000/- on 10.4.2013. The farmer has been advised for optimum utilization of tractor.

Beneficiary No.6

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	R. Parameshwari S/o Rajendran, Thuyaneri, Madurai East Block
2	Total land available with the beneficiary (ha)	1.09.0
3	Type of protected cultivation activity (Hi-tech/ Normal GH. Shade net, plastic tunnel.....)	Normal green house
4	Year of establishment	2012-13

5	Size of structure (Sq.m)	1000 sq M
6	Total cost	Rs 656240/-
7	Agency involved in fabrication and installation	Sri Vinayaka Trading Company, Hosur
8	Total subsidy paid & date of payment	Rs 325000/- released as back ended subsidy on 2.4.2013
9	Crop being grown	Cucumber
10	Condition of structure	Good
11	condition of crop	Good
12	Tie up with market	Local market
	General upkeep very good/good/average/poor)	
	Any other relevant observation of JIT	

Observations

- The beneficiary is about to complete harvesting of first crop of Cucumber from this polyhouse.Total production is going to be about 15 MT.Encouraged with the achievements he is planning to have another polyhouse.

Beneficiary No. 7

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	V. Balasubramanian s/o Veeranan, Karuppukal
2	Total land available with the beneficiary (ha)	3.29.0
3	Crop Cluster under which covered.	Anola
4	Name & variety of crop planted.	Anola – NA 7
5	Source of planting material,	Model Horticulture Farm, Sundaramudayan

6	Number of planting material.	903 Nos
7	Number of plants which survived (also indicate percentage survival).	903 Nos
8	No of plants which survived (also indicate percentage survival)	903 Nos (100%)
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	1 year- Rs 33424/- 2 nd year 8056/-
10	Amount paid and date of payment.	1 year – Rs 6500/-
11	Mode of payment.	NEFT to beneficiary account
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Bore well
13	Whether Drip/ Sprinkle System in use.	Drip system
14	Other inputs provided	19:19:19 NPK-22.75 kg (value- Rs 2182/-)
15	Whether assistance available for Organic Farming	No
16	If so, area covered	-
17	Assistance available	-
18	Available marketing facility for the crop.	Madurai
19	Other infrastructure available in the vicinity.	
20	General upkeep of the plot; (Very good/ Good / Average/ Poor)	
21	Any other relevant observation by the JIT.	

Observations

- Growth is good but field is infested with weeds. The plants which died in the first year have already been replaced.

Beneficiary No. 8

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Malaierasi w/o Rajasekharan, Karuppukal
2	Total land available with the beneficiary (ha)	5.00.0
3	Type of MI system availed Drip/ Sprinkler.	Drip system (75% subsidy)
4	Crop (s) covered	Mango
5	Total area covered (ha)	5.00.0
6	Crop Spacing (for drip)	5m X 5m
7	Year of establishment	2011-12
8	Name of Manufacturer/ Supplier	Jain irrigation
9	Total subsidy paid & date of payment	Rs 93572/- (10% impounded Amount- Rs 9357 & Rs 84215 released on 8.1.2013)
10	Mode of payment.	By cheque MI Company
11	Status of crop	Good
12	General upkeep very good/good/ average/poor)	
13	Any other relevant observation of JIT	

Observations

- The drip irrigation provided for 5 Ha. of Mango crop is working satisfactory.

Beneficiary No. 9

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Balasubramanian s/o Veeranan, Karuppukal
2	Total land available with the beneficiary (ha)	1.78.0
3	Type of MI system availed Drip/ Sprinkler.	Drip system (75% subsidy)
4	Crop (s) covered	Coconut
5	Total area covered (ha)	1.78.0
6	Crop Spacing (for drip)	6m X 6m
7	Year of establishment	2011-12
8	Name of Manufacturer/ Supplier	Jain irrigation
9	Total subsidy paid & date of payment	Rs 27591/- (10% impounded Amount- Rs 2760 & Rs 24831 released on 8.1.2013)
10	Mode of payment.	By cheque MI Company
11	Status of crop	Good
12	General upkeep very good/good/ average/poor)	
13	Any other relevant observation of JIT	

Observations

- This is working well but full of weeds. The farmer was advised to remove the weeds and raise suitable crops.

Beneficiary No. 10

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	S. chellammal, w/o Subbaiah, M. Vellalapatti, Kottampatti Block

2	Total land available with the beneficiary (ha)	1.00.0
3	Crop Cluster under which covered.	Cocoa
4	Name & variety of crop planted.	Cocoa – cryalo
5	Source of planting material,	Cadburys India (P) Ltd.
6	Number of planting material.	500 Nos of cocoa seedlings
7	Number of plants which survived (also indicate percentage survival).	480 Seedlings- 96%
8	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs 8000 for 1st Year, Rs 2000 for 2 nd Year
9	Amount paid and date of payment.	-
10	Mode of payment.	-
11	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Well irrigation
12	Whether Drip/ Sprinkle System in use.	-
13	Other inputs provided	Chemical Fertilizers, Bio Fertilizers & Plant Protection Chemicals
14	Whether assistance available for Organic Farming	
15	If so, area covered	
16	Assistance available	
17	Available marketing facility for the crop.	
18	Other infrastructure available in the vicinity.	
19	General upkeep of the plot; (Very good/ Good / Average/ Poor)	
20	Any other relevant observation by the JIT.	

Observations

- The 1 Ha. Cocoa plantation during 2009-10 as intercrop in Coconut field has already come to fruiting stage and as per buy back arrangement with Cadburys India Ltd. The farmer has sold 100 Kg. of Cocoa beans @ 130-150 per Kg.

Beneficiary No. 11

Sr	Details	Remarks
1	Name of the project	Construction of Cold Storage under NADP
2	Year of Implementation	2008 - 2009
3	Project Period	Four Months
4	Name of Beneficiary	Uzhavar sandhai farmers
5	Location of Project	Annanagar Uzhavar Sandhai
6	Total Project Cost	Rs. 6.05 Lakhs
7	Amount Released & date	Rs.6.05 Lakhs dt.07.11.2008
8	Expenditure incurred	Rs.5,92,430
9	Status	
	Capacity of unit	2 M.T
	Commodity	Fruits & Vegetables
	Equipments purchased	Steel racks, PVC Grades and cooler type
	Condition of infrastructure	Working Condition
	Whether NHM logo displayed	-
	Whether funds disbursed to agency	Yes

Observations

- Supported under RKVY during 2008-09. The cold room being in the Farmers fruit and vegetable market is very useful for the farmers for storing the unsold fruits and vegetables.

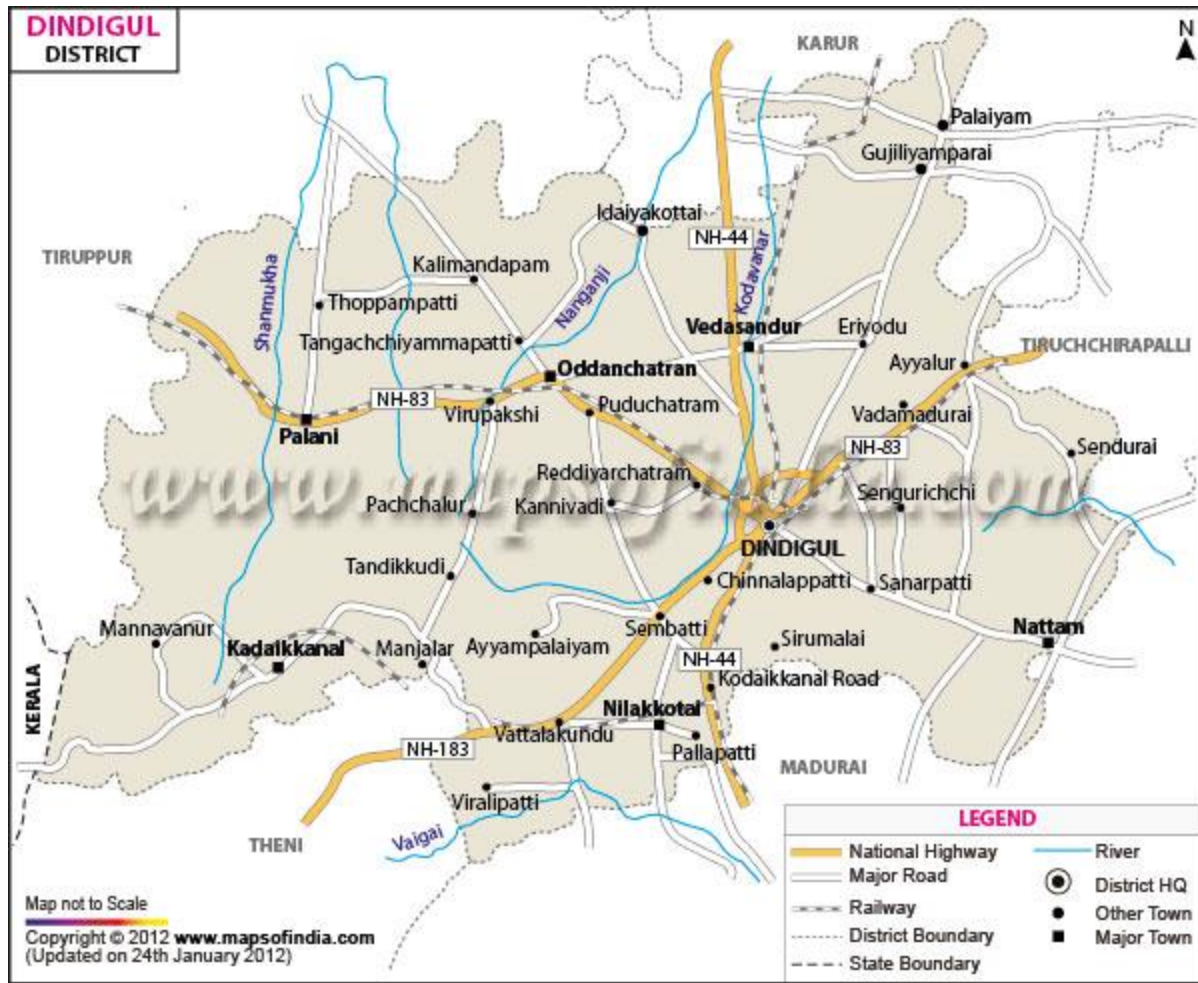
Beneficiary No. 12

Sr	Details	Remarks
1	Name of the project	Construction of Cold Storage under NADP
2	Year of Implementation	2008 - 2009
3	Project Period	Four Months
4	Name of Beneficiary	Uzhavar sandhai farmers
5	Location of Project	Chokkikulam Uzhavarsandhai
6	Total Project Cost	Rs. 6.05 Lakhs
7	Amount Released & date	Rs.6.05 Lakhs dt.07.11.2008
8	Expenditure incurred	Rs.5,89,586
9	Status	
	Capacity of unit	2 M.T
	Commodity	Fruits & Vegetables
	Equipments purchased	Steel racks, PVC Grades and cooler type cold storage
	Condition of infrastructure	Working Condition
	Whether NHM logo displayed	-
	Whether funds disbursed to agency	Yes

Madurai District Photographs



District: Dindigul



Introduction

Dindigul district was bifurcated from Madurai District and formed during 1985 over an area of 6266.64 S.qm. It is located between $10^{\circ}05''$ and $10^{\circ}09''$ North latitude and $77^{\circ}30''$ and $78^{\circ}20''$ East longitude and at the elevation of 280.11MSL. The district head quarter is 65KM. away from Madurai city lying on the southwest direction.

REVENUE ADMINISTRATION IN THE DISTRICT

Revenue Division	Taluk	Blocks
Dindigul	Dindigul	Dindigul Shanarpatty Reddiyarchatram

	Athur	Athur @ Sempatty
	Nilakottai	Nilakottai Vathalagundu
	Natham	Natham
Palani	Vedasandur	Vedasandur Vadamadurai Gujiliyamparai
	Palani	Palani Thoppampatty
	Oddanchatram	Oddanchatram
Kodaikanal	Kodaikanal	Kodaikanal

The District is having 39 Revenue firkas and 359 Revenue Village with 306 Village panchayats.

Climate

The district has tropical (Plains), Sub tropical and Temperate (Kodaikanal) Climate accommodating almost all kinds of Horticulture crops.

Average Temperature:

(a) Plains : Maximum 39⁰C. Minimum - 19⁰C.

(b) Hills (Kodaikanal) : Maximum 22⁰C. Minimum - 08⁰C.

Horticulture In The District:

Dindigul district is blessed with diverse climate ranging from tropical to temperate conducive to grow an array of Horticulture Crops. The following are the Horticulture Crops boosting the Horticulture wealth of the District. The major crops cultivated more than 1000 Ha. are Mango, Hill Banana, Citrus, Flowers, Coffee and Vegetables like Onion, Tomato, Moringa, Lab-Lab, Potato and Carrot.

DISTRICT NINE FOLD LAND CLASSIFICATION

Sl.No.	Details	Area in Ha
1	Forest	138923.000
2	Uncultivable waste	36209.920
3	Non Agri uses	66179.160
4	Cultivable waste land	5842.004
5	Permanent Pasture & Grass Land	6946.00
6	Misc. Tree Crops & Groves	7765.237
7	Current Fallow	27433.743
8	Other Fallow	105870.536
9	Net Cultivated Area	231494.400
	TOTAL	626664.000

RAIN FALL DETAILS (mmMM)

DINDIGUL DISTRICT

S.No.	Month		50 yeas annual Rain Fall	Rain Fall (mm)			
				2010	2011	2012	2013
1	Winter Season	1.January	33.9	1.57	7.45	1.63	-
		2.February	10.8	-	29.16	0.40	21.68
		Total	44.7	1.57	36.61	2.03	21.68
2	Summer Season	3.March	15.7	-	7.85	3.00	29.88
		4.April	61.0	13.58	89.89	46.38	0
		5.May	78.4	91.43	189.25	43.18	31.71
		Total	155.1	105.01	286.99	92.56	61.59
3	South West Monsoon	6.June	32.3	62.52	20.22	6.98	7.00
		7.July	30.6	45.81	27.07	40.43	3.58
		8.August	65.9	30.66	95.27	48.02	16.02
		9.September	89.5	82.75	18.75	34.47	75.25
		Total	218.3	221.74	161.31	129.90	101.85
4	North East	10.October	189.1	286.64	269.89	239.3	49.51 (16.10.2013)

	Monson	11.November	163.8	391.21	294.55	26.29	
		12.December	65.0	109.3	21.06	13.27	
		Total	417.9	787.15	585.50	278.86	
		Grand Total	836.0	1115.47	1070.41	503.35	

AREA COVERAGE (Ha.)

Crop	Annual Tentative Target (Ha)	Area reconciled (Ha)	Remarks
Fruits	29445	20703	-
Vegetables	17467	2870	-
Spices and condiments	9260	5068	-
Plantation Crops	11941	11126	-
Flowers	4099	1328	-
Medicinal & Aromatic Plants	1395	0	-
Total	73607	41095	-

Field Visit

Beneficiary No.1

Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & address of Beneficiary whose field visited.	V.K.Karthikeyan, S/o. Krishnasamy, A.Kombai.Vadamadurai Block Dindigul Dist
2.	Total land available with the beneficiary (ha).	0.70.0
3.	Type of Protected cultivation activity (Hi-tech /Normal GH. Shade net,Plastic tunnel)	Hi-Tech POLY GREEN HOUSE

4.	Year of establishment	2011-12
5	Size of Structure (Sq. m)	1000 Sq.mt
6	Total cost	Rs. 12,00,000/-
7	Agency involved in fabrication and Installation	Own
8	Total subsidy paid and date of payment.	Rs.3,25,000/- & 25.04.2012
9	Crop being grown	Cucumber
10	Condition of Structure	Working Condition
11	Condition of Crop	Harvest Condition
12	Tie up with market	Chennai, Oddanchatram
13	General upkeep (Very good/ Good/ Average/Poor)	
14	Any other relevant observation by J1T.	

Beneficiary No.2

Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & address of Beneficiary whose field visited.	N.Chandran, S/o. K.N.Narayanan, A.Kombai. Vadamadurai Block Dindigul Dist
2.	Total land available with the beneficiary (ha).	0.70.0
3.	Type of Protected cultivation activity (Hi-tech /Normal GH. Shade net,Plastic tunnel)	Hi-Tech POLY GREEN HOUSE
4.	Year of establishment	2011-12
5	Size of Structure (Sq. m)	1000 Sq.mt
6	Total cost	Rs. 11,80,000/-

7	Agency involved in fabrication and Installation	Own
8	Total subsidy paid and date of payment.	Rs.3,25,000/- & 25.04.2012
9	Crop being grown	Cucumber
10	Condition of Structure	Working Condition
11	Condition of Crop	Harvest Condition
12	Tie up with market	Chennai, Oddanchatram
13	General upkeep (Very good/ Good/ Average/ I Poor)	
14	Any other relevant observation by J1T.	

Beneficiary No.3

Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & address of Beneficiary whose field visited.	K.Lakshmanan, S/o. Kandasamy, Ondipommanpatty. Vadamadurai Block Dindigul Dist
2.	Total land available with the beneficiary (ha).	1.21.0
3.	Type of Protected cultivation activity (Hi-tech /Normal GH. Shade net,Plastic tunnel)	Shade Net
4.	Year of establishment	2012-13
5	Size of Structure (Sq. m)	500 Sq.mt
6	Total cost	Rs. 3,25,000/-
7	Agency involved in fabrication and Installation	Own
8	Total subsidy paid and date of payment.	Rs.1,50,000/- & 27.06.2013
9	Crop being grown	Tomato, Brinjal, Chillies

10	Condition of Structure	Working Condition
11	Condition of Crop	Seedlings Condition
12	Tie up with market	Local Market
13	General upkeep (Very good/ Good/ Average/ Poor)	
14	Any other relevant observation by J1T.	

Observation

- The beneficiary is producing planting material for different crops namely: Tomato, Brinjal, Chillies, cauliflower and marigold. Based on the demand in the area he has extended the area by another 1000 sqm at his own. He is able to meet 15-20% of the total demand in the area.

Beneficiary No.4

Micro Irrigation

S. No.	Details	Remarks
1	Name & address of beneficiary visited	P.Lakshi W/o. Palanisamy, Ondipommanpattil Vadamadurai Block Dindigul Dist
2	Total land available with the beneficiary (ha).	0.90.5
3	Type of MI system availed Drip/ Sprinkler	Drip
4	Crop(s) covered	Brinjal
5	Total area covered (ha)	0.40.0
6	Crop Spacing (for drip)	1.20 m X 0.60 m
7	Year of establishment	2013-14
8	Name of Manufacturer/ Supplier	Elgi Ultra Industries Ltd
9	Total subsidy paid & date of payment	Rs. 48,298
10	Mode of payment	RTGS (Concern MI firm)
11	Status of crop	Flowering Stage

12	General upkeep Very good/ Good/ Average/ Poor)	
13	Any other relevant observation by JIT.	

Beneficiary No.5

NADP- Pandal Cultivation

S.No.	Details	Remarks
1	Name & address of beneficiary visited	P.Lakshi W/o. Palanisamy, Ondipommanpattil Vadamadurai Block Dindigul Dist
2	Total land available with the beneficiary (ha).	1.25.0
3	Type of cultivation	Pandal cultivation
4	Name of the Crop	Snakeguard
5	Crop(s) covered	0.40.0
6	Source of Seed	TANHOPE
7	Total area covered (ha)	0.40.0
8	Crop Spacing	3m X 1m
9	Year of establishment	2013-14
10	Total subsidy paid & date of payment	Rs.-- /-
11	Mode of payment	ECS
12	Status of crop	Vegetative
13	General upkeep Very good/ Good/ Average/ Poor)	
14	Any other relevant observation by JIT.	

Observation

- The crop stand is very good. The beneficiary is able to get increased yield due to this technology

Beneficiary No.6**Micro Irrigation**

S. No.	Details	Remarks
1	Name & address of beneficiary visited	N. Alagarsami W/o.Narayanan, Kalarpatti Vadamadurai Block Dindigul Dist
2	Total land available with the beneficiary (ha).	1.00.0
3	Type of MI system availed Drip/ Sprinkler	Drip
4	Crop(s) covered	Tomato
5	Total area covered (ha)	1.00.0
6	Crop Spacing (for drip)	1.20 m X 0.60 m
7	Year of establishment	2013-14
8	Name of Manufacturer/ Supplier	Elgi Ultra Industries Ltd
9	Total subsidy paid & date of payment	Rs. 97,598
10	Mode of payment	RTGS (Concern MI firm)
11	Status of crop	Maturity Stage
12	General upkeep Very good/ Good/ Average/Poor)	
13	Any other relevant observation by JIT.	

Beneficiary No.7**Micro Irrigation**

S.No.	Details	Remarks
1	Name & address of beneficiary visited	D.Sangethramasamynaidu, S/o. Duraisamynaidu, Alamarathupatty, Athoor Block.
2	Total land available with the beneficiary (ha).	3.65
3	Type of MI system availed Drip/ Sprinkler	Drip
4	Crop(s) covered	Ixora flower
5	Total area covered (ha)	3.65
6	Crop Spacing (for drip)	2mX2m
7	Year of establishment	2013
8	Name of Manufacturer/ Supplier	Flowtech Irrigation
9	Total subsidy paid & date of payment	Rs.1,26,624/-
10	Mode of payment	RTGS (Concerned MI Firm)
11	Status of crop	Flowering stage
12	General upkeep Very good/ Good/ Average/ Poor)	
13	Any other relevant observation by JIT.	

Observation

- Farmer feels happy with the significant saving in water and fertilizer. Encouraged by the results he feels to increase area under IXORA.
- The beneficiary is of the view that bio fertilizer is not available in time and was advised to give his demand well in advance to the agent selling bio fertilizer.

Beneficiary No.8

Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & address of Beneficiary whose field visited.	S. Kalaivani, W/o. Shanmugam (Lease Holders: V.K. Karthikeyan, N. Chandran) A.Kombai.Vadamadurai Block
2.	Total land available with the beneficiary (ha).	1.40.0
3.	Type of Protected cultivation activity (Hi-tech/Normal GH. Shade net, Plastic tunnel)	Hi-Tech POLY GREEN HOUSE
4.	Year of establishment	2011-12
5	Size of Structure (Sq. m)	2000 Sq.mt
6	Total cost	Rs. 15,00,000/-
7	Agency involved in fabrication and Installation	Own
8	Total subsidy paid and date of payment.	Rs.6,50,000/- & 25.04.2012
9	Crop being grown	Cucumber
10	Condition of Structure	Working Condition
11	Condition of Crop	Harvest Condition
12	Tie up with market	Chennai, Oddanchatram
13	General upkeep (Very good/ Good/ Average/ I Poor)	
14	Any other relevant observation by J1T.	

Observation

- Beneficiary is growing cucumber using cocopeat media with drip fertigation. He is making all the efforts to increase the yield and has already achieved 20 MT from 1000 sqm. In the standing crop few plants are infected by virus.
- A success story need to be prepared for this farmer.

Beneficiary No.9

Protected Cultivation

Sr. No.	Details	Remarks
1.	Name & address of Beneficiary whose field visited.	K.Lakshmanan, S/o. Kandasamy, Ondipommanpatty. Vadamadurai Block Dindigul Dist
2.	Total land available with the beneficiary (ha).	1.21.0
3.	Type of Protected cultivation activity (Hi-tech /Normal GH. Shade net,Plastic tunnel)	Shade Net
4.	Year of establishment	2012-13
5	Size of Structure (Sq. m)	500 Sq.mt
6	Total cost	Rs. 3,25,000/-
7	Agency involved in fabrication and Installation	Own
8	Total subsidy paid and date of payment.	Rs.1,50,000/- & 27.06.2013
9	Crop being grown	Tomato, Brinjal, Chillies
10	Condition of Structure	Working Condition
11	Condition of Crop	Seedlings Condition
12	Tie up with market	Local Market
13	General upkeep (Very good/ Good/ Average/ I Poor)	
14	Any other relevant observation by J1T.	

Beneficiary No.10**Micro Irrigation**

S. No.	Details	Remarks
1	Name & address of beneficiary visited	P.Lakshi W/o. Palanisamy, Ondipommanpattil Vadamadurai Block Dindigul Dist
2	Total land available with the beneficiary (ha).	0.90.5
3	Type of MI system availed Drip/ Sprinkler	Drip
4	Crop(s) covered	Brinjal
5	Total area covered (ha)	0.40.0
6	Crop Spacing (for drip)	1.20 m X 0.60 m
7	Year of establishment	2013-14
8	Name of Manufacturer/ Supplier	Elgi Ultra Industries Ltd
9	Total subsidy paid & date of payment	Rs. 48,298
10	Mode of payment	RTGS (Concern MI firm)
11	Status of crop	Flowering Stage
12	General upkeep Very good/ Good/ Average/Poor)	
13	Any other relevant observation by JIT.	

Beneficiary No.11**NADP- Pandal Cultivation**

S.No.	Details	Remarks
1	Name & address of beneficiary visited	P.Lakshi W/o. Palanisamy, Ondipommanpattil Vadamadurai Block

		Dindigul Dist
2	Total land available with the beneficiary (ha).	1.25.0
3	Type of cultivation	Pandal cultivation
4	Name of the Crop	Snakeguard
5	Crop(s) covered	0.40.0
6	Source of Seed	TANHOPE
7	Total area covered (ha)	0.40.0
8	Crop Spacing	3m X 1m
9	Year of establishment	2013-14
10	Total subsidy paid & date of payment	Rs.-- /-
11	Mode of payment	ECS
12	Status of crop	Vegetative
13	General upkeep Very good/ Good/ Average/ Poor)	
14	Any other relevant observation by JIT.	

Beneficiary No.12

Micro Irrigation

S. No.	Details	Remarks
1	Name & address of beneficiary visited	N.Alagarsami W/o.Narayanan, Kalarpatti Vadamadurai Block Dindigul Dist
2	Total land available with the beneficiary (ha).	1.00.0
3	Type of MI system availed Drip/ Sprinkler	Drip
4	Crop(s) covered	Tomato
5	Total area covered (ha)	1.00.0

6	Crop Spacing (for drip)	1.20 m X 0.60 m
7	Year of establishment	2013-14
8	Name of Manufacturer/ Supplier	Elgi Ultra Industries Ltd
9	Total subsidy paid & date of payment	Rs. 97,598
10	Mode of payment	RTGS (Concern MI firm)
11	Status of crop	Maturity Stage
12	General upkeep Very good/ Good/ Average/Poor)	
13	Any other relevant observation by JIT.	

Observation

- The beneficiary has planted Tomato varieties Red Ruby and Lakshmi 5005. The growth is satisfactory. Sporadic incidence of leaf curl virus has been observed in the field. The infection has occurred in advanced stage and beneficiary has been advised to uproot and destroy few plants which are severely affected and recommended insecticide sprays for control of insect vector.

Beneficiary No.13

Micro Irrigation

S.No.	Details	Remarks
1	Name & address of beneficiary visited	D.Sangethramasamynaidu, S/o. Duraisamynaidu, Alamarathupatty, Athoor Block.
2	Total land available with the beneficiary (ha).	3.65
3	Type of MI system availed Drip/ Sprinkler	Drip
4	Crop(s) covered	Ixora flower
5	Total area covered (ha)	3.65
6	Crop Spacing (for drip)	2mX2m
7	Year of establishment	2013

8	Name of Manufacturer/ Supplier	Flowtech Irrigation
9	Total subsidy paid & date of payment	Rs.1,26,624/-
10	Mode of payment	RTGS (Concerned MI Firm)
11	Status of crop	Flowering stage
12	General upkeep Very good/ Good/ Average/Poor)	
13	Any other relevant observation by JIT.	

Dindigul districts photographs:

PRO-TRAY TOMATO SEEDLINGS NURSERY IN SHADE NET



NMMI 2013-14 - BRINJAL & SNAKE GOURD FIELD



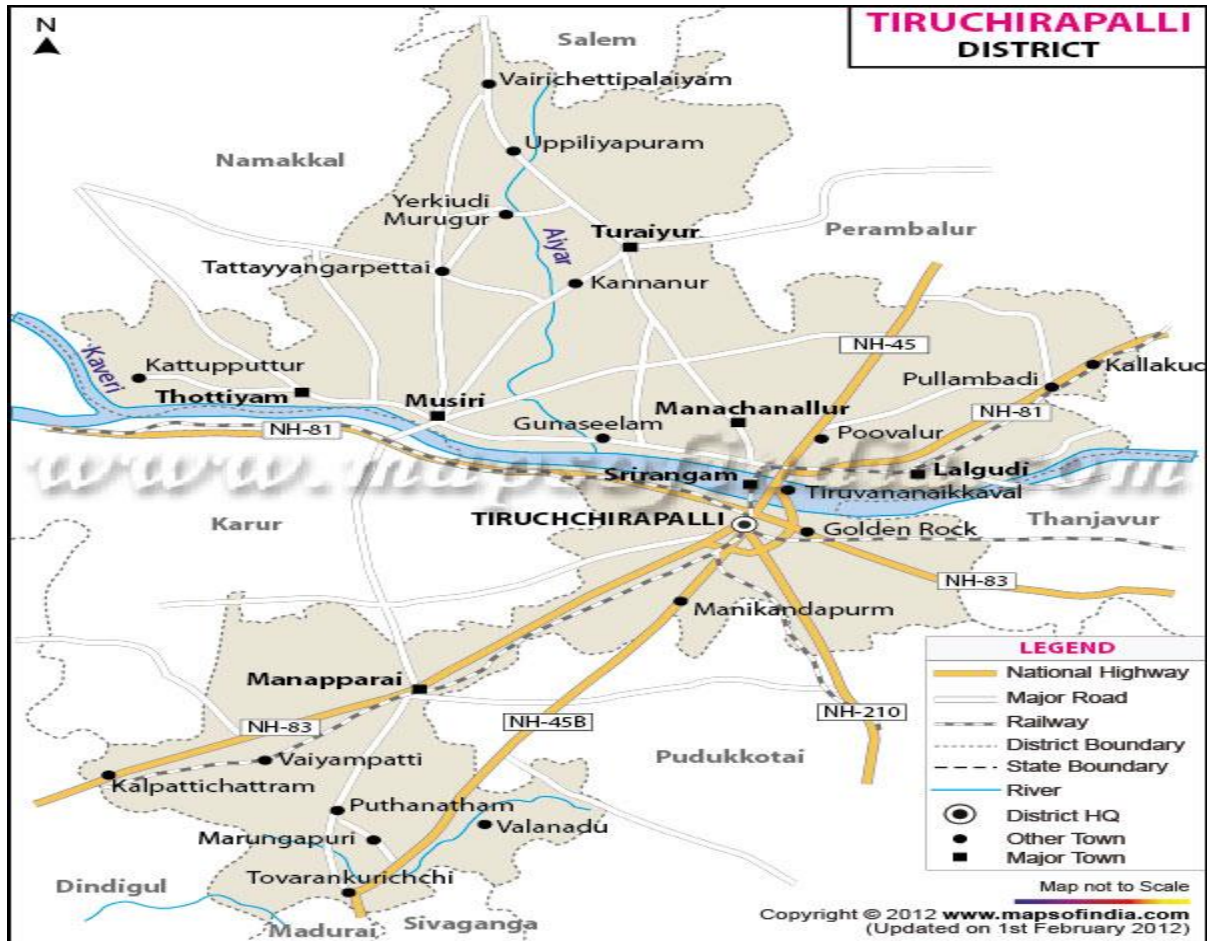
CUCUMBER CULTIVATION IN HI-TECH POLY GREEN HOUSE



NHM - HI TECH POLY GREEN HOUSE 2011-12
S KALAIVANI W/o SHANMUGAM, A KOMBAL, VADAMADURAI BLOCK



District: Tiruchirapalli



Introduction

The topography of the district is almost plain except for the short range of Patchamalai hills in north. Cauvery is the major river flowing across the central portion of the district. Alluvial sandy loam soil constitutes major portions of the delta regions. In Lalgudi, Mannachanallur and Andanallur blocks loamy soils are predominant. In dry tracts of Manapparai, Marungapuri, Vaiyampatti and Thathaiyangarpettai red soil is predominant followed by black cotton soils in Thuraiyur and Uppiliyapuram block.

Plantation Crops

Sl. No.	Crops	Area in Ha.	Production (M.T)	Productivity (M.T / Ha.)
1.	Cashew	781	328	0.42
2.	Betelvine	168	3696	22.00
3.	Arecanut	23	9	0.40

Field Visit

Beneficiary No. 1

S.NO	DETAILS	REMARKS
1.	Name and address of Beneficiary whose field visited	Bakthavatchalam s/o Ganesan Mugavanoor south
2.	Total land available with the beneficiary	7.00.0 Ha
3.	Crop cluster under which covered	1.50.0 Ha
4.	Name and variety of crop planted	Mango – High Density Planting
5.	Source of planting material	ADH - Vaiyampatti
6.	Number of planting material	600 nos
7.	Number plants planted / rejuvenated	600 nos
8.	Date of plants which survived (also indicate percentage survival)	-
9.	Total amount of subsidy assistance due to the beneficiary as(Rs)	-
10.	Amount paid and date of payment	-
11.	Mode of payment	-
12.	Source of irrigation water (Bore well / tube well/ Canel)	Bore well
13.	Whether Drip / Sprinkler system in use	Drip
14.	Other input provided	-
15.	Whether assistance available for organic	-
16.	If , so area covered	-

17.	Assistance available	-
18.	Available marketing facility for the crop	-
19.	Other infrastructure available in the vicinity	-
20.	General up keep of the plot ; (very good / good/ average/ poor)	
21.	Any other relevant observation by the JIT	

Observation

- This is 2013-14 high density area expansion for mango crop. The planting is in progress. Farmer was advised for proper layout of plants and soil testing.

Beneficiary No. 2

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Kanagu S/o Gopal M. Kallupatti
2.	Total land available with the beneficiary (ha)	0.80.0 Ha.
3	Crop Cluster under which covered.	0.50.0 Ha
4	Name & variety of crop planted.	Local Mango and Choice variety
5	Source of planting material,	Department
6	Number of planting material.	50 Nos.
7	Number of plants planted/ rejuvenated.	50 Nos.
8	Date of plants which survived (also indicate percentage survival).	100%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 1000/ - 4945.45 1647.60 ----- 6593.05
10	Amount paid and date of payment.	Rs. 1000/-
11	Mode of payment.	ECS
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Bore well
13	Whether Drip/ Sprinkle System in use.	-

14	Other inputs provided	Water soluble Fertilizer
15	Whether assistance available for Organic	-
16	If so, area covered	-
17.	Assistance available	
18.	Available marketing facility for the crop.	-
19.	Other infrastructure available in the vicinity.	-
20	General upkeep of the plot; Very good/ Good / Average/ Poor.	-
21.	Any other relevant observation by the JIT.	-

Observation

- This is AE supported during 2011-12 under NHM for Mango crop. The growth is very good but needs training of plants and canopy management.

Beneficiary No. 3

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Palaniyammal W/o Perumal T.Sukkampatti
2.	Total land available with the beneficiary (ha)	1.20.0 Ha
3	Crop Cluster under which covered.	0.50.0 Ha
4	Name & variety of crop planted.	Lime
5	Source of planting material,	Department
6	Number of planting material.	138 Nos.
7	Number of plants planted/ rejuvenated.	138 Nos.
8	Date of plants which survived (also indicate percentage survival).	100%
9	Total amount of subsidy assistance due to the	Rs. 1500/-
10	Amount paid and date of payment.	Rs. 1500/-

11	Mode of payment.	ECS
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Well
13	Whether Drip/ Sprinkle System in use.	-
14	Other inputs provided	Water soluble Fertilizer
15	Whether assistance available for Organic Farming	-
16	If so, area covered	-
17.	Assistance available	
18.	Available marketing facility for the crop.	-
19.	Other infrastructure available in the vicinity.	-
20	General upkeep of the plot; Very good/ Good / Average/ Poor.	-
21.	Any other relevant observation by the	-

Observation

- AE 2011-12 supported under NHM in 0.5 ha. Growth is good but farmer needs to be educated on proper training of plants and canopy management.

Beneficiary No. 4

Sr	Details	Remarks
1	Name of the project	Construction of cold storage for Anna Nagar Uzhavar Sandhai Trichy
2	Year of Implementation	2008-09
3	Project Period	Four months
4	Name of Beneficiary	Farmers
5	Location of Project	Anna Nagar Trichy
6	Total Project Cost	6.05 Lakhs
7	Amount Released & date	D.D. No. 185462 dt. 7.11.2008 Rs. 54,45,000
8	Expenditure incurred	Rs.5,97,020

9	Status	Work completed. Building handed over and C.R recorded
	Capacity of unit	2 Metric Tonnes
	Commodity	Fruits and Vegetables
	Equipments purchased	steel racks and cooler machine
	Condition of infrastructure	
	Whether NHM logo displayed	
	Whether funds disbursed to agency	75 % TNSAMB Board Fund 25% NHM Fund

Observation

- This is 2 MT cold room supported under NHM and serving the purpose of storing unsold fruits & vegetables in the evening.
- Availability of such cold room is essential for every such farmer market.

Tiruchirapalli District Photographs



Draft Minutes of the Wrap Up meeting of the Joint Inspection Team Visit to Tamil Nadu

Date: 25.10.2013

Venue: Conference Hall, O/o The Managing Director, TANHODA

The Joint Inspection Team appreciated the good work being done by the field level functionaries in the implementation of Government of India Schemes. They said that the farmers being aware of the components under which they have availed assistance and maintenance of records regarding all aspects of protected cultivation by the farmers are commendable. Other suggestions and noting given by the JIT team are as follows:

- Plastic Mulching technique which has proven results must be popularized among all the farmers
- Training on Canopy Management and Rejuvenation should be imparted to farmers/ field functionaries.
- **Tissue Culture Units** established in TNAU with assistance from National Horticulture Mission must start commercial production to cater to the needs of the farmers to serve the very purpose of funding under NHM. Further assistance to strengthen the labs may be obtained from NHM but there is no provision for meeting the manpower expenditure under NHM. The man power cost may be met out from the proceeds of the sale of TC plants.
- The Leaf Tissue Analysis labs established under NHM in TNAU are well equipped but seem to be underutilized because of lack of patronage by farmers. Hence the importance and benefits of leaf tissue analysis must be popularized among farmers so that more number of farmers get benefited by analyzing their samples in these labs.
- In the 100% subsidy field of NMMI scheme visited by the JIT, the tomato leaf curl virus was prevalent. The field officials must be watchful of the symptoms and suggest remedies to farmers.

- The success story on Cucumber of Mrs. Kalaivani, W/o Shanmugam at A.Kombai village in Dindigul district has to be sent to Government of India along with the hurdles faced by the farmer during the process and how they overcome the hurdles.
- There is a good demand for planting materials for vegetables as stated by the farmer who produces portray seedlings under Shade net. As per his views he is able to meet only 10-15 % of the local demand. Hence more numbers of shade net nurseries must be promoted as per the requirement.
- Since there is limited scope for new area expansion, more emphasis should be given for rejuvenation of old and senile orchards and canopy management of relatively young orchards and high density plantations. These technologies should be demonstrated in State Horticulture Farms so that the farmers can learn them and adopt them in their fields.
- When it was mentioned that the number of senile and old orchards are not so high in Tamil Nadu as in the case of Maharashtra and hence there are problems in effecting the achievement under this component, it was suggested that a survey may be conducted in this regard and Government of India may be addressed with data to divert the funds under Rejuvenation to other components.
- Protected Cultivation should be promoted in all areas wherever possible.
- The cold rooms established in Uzhavar Sandhais are very effectively serving the purpose and hence this may be established in all Uzhavar Sandhais.
- The JIT after visiting the Centre of Excellence at Reddiyarchatram hopes that this Centre will provide quality planting materials to the surroundings and also train the farmers in transplant production so that problems regarding planting material supply will be effectively solved.

JOINT INSPECTION TEAM OF GOVERNMENT OF INDIA – WRAPUP MEETING PARTICIPANTS

DATE: 25.10.2013

TIME: 10.30am

VENUE: Conference Hall,

S.NO	NAME & DESIGNATION
1	Thiru. Satyabrata Sahoo., I.A.S, Managing Director, TANHODA, Chennai.
2	Dr. H.V.L. Bathla, Chief consultant NHM, New Delhi.
3	Dr. Homey Cherian Director of DASD, Calicut, Kerala
3	Dr. I. Muthusamy, Principal Investigator (PFDC), TNAU Coimbatore
4	Dr. S. Balakrishnan Prof and Head, HCRI Periyakulam, Theni
5	K.Periasamy, Joint Director of Horticulture, TANHODA, Chennai
6	S.V.K.Rajendran, Deputy Director of Horticulture, NMMI, Chennai
7	G. Kandasamy, Deputy Director of Horticulture, NHM, Chennai
8	P.Premavathy, Assistant Director of Horticulture, NHM, Chennai
9	Shantha Celin Mary, Assistant Director of Horticulture, NADP, Chennai
10	T.Kayarkanni, Horticulture Officer, NHM, Chennai.