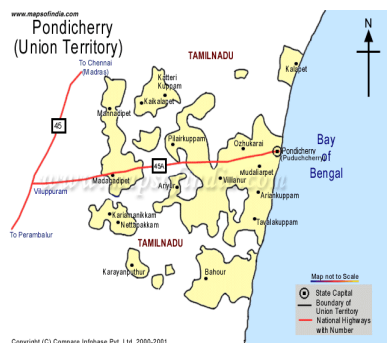


# Report of the Joint Inspection Team on their inspection visit to Puducherry Union Territory during Sep.2013( 24 -26 Sep. 2013)



**Department of Agriculture and Cooperation (DAC)**

**Nation Horticulture Mission**

**Krishi Bhawan, New Delhi**

## **Report of the Joint Inspection Team on their inspection visit to Puducherry Union Territory during Sep. 2013(24 -26 Sep, 2013)**

The Joint Inspection Team (JIT) comprising of Dr. R.C.Upadhyaya, Chief Consultant (NHM) visited Puducherry duringv 24-26th Sep, 2013 to review the progress under the National Horticulture Mission (NHM),Smt. Sadhna Khanna,Under Secretary,DAC,Govt. of India , Shri S. Jayasankar, Additional Director of Agriculture (Horti) and Shri Prabhakaran, Horticulture Officer, NHM , Puducherry accompanied the Team during the field visits .

### **Agenda of Meeting:**

- Crop specific cluster at district level.
- Nurseries management and progress including accreditation of nurseries.
- Vermi compost units under SHM.
- Flowers and vegetable production under protected conditions.
- Timely release of budget for better and timely utilization
- Micro irrigation scheme and use of plastic in mulching.
- Other activities and support from KVK.

Rap up meeting was held at 1800hrs On 26<sup>th</sup> Sep., 2013 with Dr. A. Ramamourti, Director, Department of Agriculture alongwith JIT members. Discussions were held on issues related to Horticulture development in Puducherry and problem faced in field.Director informed about damage caused by Hurricane which caused severe damage to the horticultural crops and poly house structures. Farmers are supported on repair of poly houses.

### **Field Inspection by the Joint Inspection Team- Puducherry Region**

<b>S.No</b>	<b>Name &amp; Address</b>	<b>Scheme component</b>	<b>Year</b>	<b>Crop</b>	<b>Area</b>	<b>Remarks</b>
1.	PKKVK, Puducherry	NHM - IPM	2013-14	Bio control lab		Project Based
2.	Thillai S/o Radhakrishnan, Mannadipet	NHM – Poly House	2011-12	Presently no crop.Planting jasimine	1000	Damaged in hurricane

3	Thiru. A.Narayanan S/o Arumugam, Vambupet	NHM – Area expansion/ New Garden	2013- 14	Tuberose	0.40 ha	Non – project based
4	Prabakaran S/o Palanisamy, P.S. Nallur	RKVY scheme	2011- 12	Brinjal, Chillies	0.74 ha	Precision farming project
5	Muthuvengadapathy S/o Vijayaraghavan, P.S. nallur	RKVY scheme	2011- 12	Brinjal, Banana	1.16 ha	Precision farming project
6	Punniyakodi S/o Arumugam, Mangalam	RKVY scheme	2011- 12	Bitter Gourd, Ridge Gourd	0.67 ha	Precision farming project

**Proforma for use by Joint Inspection team  
Protected Cultivation**

<b>S.No</b>	<b>Details</b>	<b>Remarks</b>
1.	Name & Address of Beneficiary whose field visited	Thiru Thillai, Mannadipet
2.	Total land available with the beneficiary	3 acres
3.	Type of Protected Cultivation	Naturally Ventilated Poly House
4.	Year of establishment	2011-12
5.	Size of Structure (Sq.m)	1000 sq.m
6.	Total cost	Rs. 9,35,000/-
7.	Agency involved in fabrication and installation	SHRI ROZ Consultant Ltd., Pune
8.	Total subsidy paid and date of payment	-
9.	Crop being grown	Proposed to plant marigold
10.	Condition of structure	Mamaged in hurricane and yet to be repaired
11.	Condition of Crop	No crop
12.	Tie up with market	Puducherry Flower market
13.	General upkeep (Very good/Good/Average/Poor)	Need to repair
14.	Any other relevant observation by JIT	Drip may be associated after repair

**Proforma for use by Joint Inspection team**  
**Area Expansion/ Rejuvenation**

<b>S.No</b>	<b>Details</b>	<b>Remarks</b>
1.	Name & Address of Beneficiary whose field visited	A.Narayanan S/o Arumugam, Pillaiyarkuppam
2.	Total land available with the beneficiary	0.65 ha
3.	Crop cluster under which covered	0.40 ha
4.	Name & Variety of crop planted	Tuberose
5.	Source of planting material	Local market
6.	Number of planting material	148000
7.	Number of plants planted / rejuvenated	
8.	Date of plants which survived (also indicate percentage survival)	
9.	Total amount of subsidy assistance due to the beneficiary	Rs. 18,000/-
10.	Amount paid and date of Payment	Yet to be released
11.	Mode of Payment	NEFT
12.	Sources of irrigation water (Bore well/Tube well / Canel)	Bore well
13.	Whether drip/Sprinkle system in use	No
14.	Other inputs provided	
15.	Whether assistance available for organic farming	No
16.	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop	Puducherry, Villupuram

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	
13.	Whether drip/Sprinkle system in use	No
14.	Other inputs provided	
15.	Whether assistance available for organic farming	No
16.	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop	Puducherry, Cuddalore
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	

**Proforma for use by Joint Inspection team  
RKVY Scheme (Horticulture)**

S.No	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Prabakaran S/o Palanisamy
2.	Total land available with the beneficiary	1.5 ha
3.	Crop cluster under which covered	0.74 ha
4.	Name & Variety of crop planted	Marigold, Brinjal
5.	Source of planting material	Local market
6.	Number of planting material	

7.	Number of plants planted / rejuvenated	
8.	Date of plants which survived (also indicate percentage survival)	
9.	Total amount of subsidy assistance due to the beneficiary	Rs. 98,716/- (for micro irrigation structure and inputs )
10.	Amount paid and date of Payment	Amount released
11.	Mode of Payment	ECS
12.	Sources of irrigation water (Bore well/Tube well / Canel)	Bore well
13.	Whether drip/Sprinkle system in use	Yes
14.	Other inputs provided	
15.	Whether assistance available for organic farming	No
16.	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop	Puducherry, Villupuram
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	

**Proforma for use by Joint Inspection team  
RKVY Scheme (Horticulture)**

S.No	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Muthuvengadapathy S/o Vijayaraghavan
2.	Total land available with the beneficiary	2.5 ha

3.	Crop cluster under which covered	1.16 ha
4.	Name & Variety of crop planted	Brinjal, Banana
5.	Source of planting material	Local market
6.	Number of planting material	
7.	Number of plants planted / rejuvenated	
8.	Date of plants which survived (also indicate percentage survival)	
9.	Total amount of subsidy assistance due to the beneficiary	Rs. 1,28,610/- (for micro irrigation structure and inputs )
10.	Amount paid and date of Payment	Amount released
11.	Mode of Payment	ECS
12.	Sources of irrigation water (Bore well/Tube well / Canel)	Bore well
13.	Whether drip/Sprinkle system in use	Yes
14.	Other inputs provided	
15.	Whether assistance available for organic farming	No
16.	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop	Puducherry, Villupuram
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	

**Proforma for use by Joint Inspection team  
RKVY Scheme (Horticulture)**

<b>S.No</b>	<b>Details</b>	<b>Remarks</b>
1.	Name & Address of Beneficiary whose field visited	Punniyakodi S/o Arumugam
2.	Total land available with the beneficiary	1 ha
3.	Crop cluster under which covered	0.67 ha
4.	Name & Variety of crop planted	Bitter gourd & Bottle gourd
5.	Source of planting material	Local market
6.	Number of planting material	
7.	Number of plants planted / rejuvenated	
8.	Date of plants which survived (also indicate percentage survival)	
9.	Total amount of subsidy assistance due to the beneficiary	Rs. 82,113/- (for micro irrigation structure and inputs )
10.	Amount paid and date of Payment	Amount released
11.	Mode of Payment	ECS
12.	Sources of irrigation water (Bore well/Tube well / Canel)	Bore well
13.	Whether drip/Sprinkle system in use	Yes
14.	Other inputs provided	
15.	Whether assistance available for organic farming	No
16.	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop	Puducherry, Villupuram
19.	Other infrastructure available in the vicinity	



20.	General upkeep of the plot: Verygood/Good/Average/Poor	
21.	Any other relevant observation by the JIT	

### **Visit to Perunthalaivar Kamaraj Krishi Vigyan Kendra, Puducherry:**

The Perunthalaivar Kamaraj Krishi Vigyan Kendra was established in 1996, and is located at Kurumbapet, Puducherry in an area of 145 acres. Centre is having 50.5 acres is under rain fed and garden land farming with orchards, plantations & farm forestry and five acres for horticulture wing. Soil varies sandy loam to laterite, red loam and coastal alluvial. Mango, Guava, Sapota, Lime, Pomegranate, Cashew, Jack, and Bread fruit are maintained under orchards. Coconut and Banana are grown under plantation crops. Irrigation is provided through deep tube wells (12nos) and of drip system.

### **Horticulture Nursery:**

Nursery Established in an area of 1020 sq mt. shade net for vegetables crops. Seedlings of Brinjal, Tomato, Chillies, Cabbage, and Marigold are produced in pro-trays and supplied to farmers.

### **Tissue Culture Laboratory:**

Tissue Culture lab was established under the technical guidance from Baba Atomic Research Centre, Mumbai for tissue culturing of banana plantlets. Green house erected for hardening the tissue cultured plants. Hardened banana plants are distributed to farmers of Puducherry. Later, Tissue culturing is also taken up in Orchids, Rose and Crossandra. Orchidarium serves as a source of explants.

### **Bio-Control Laboratory:**

Established in 1997 under the technical guidance from National Bureau of Agriculturally Important Insects (ICAR), Bangalore. Trichogramma japonicum was released during the Silver Jubilee Celebrations in 1999 as a first Biocontrol agent. Tricho cards – Trichogramma japonicum & Trichogramma Chilonis; Nucleo Polyhedro Virus – Spodoptera litura; Antagonistic Fungal and Bacterial Biopesticides – Trichoderma citridi, Trichoderma harzianum and Pseudomonas fluorescens are being produced and supplied with Government subsidy. Production of Mycoinsecticide – Beauveria brassicae; Entomopathogenic Bacterial Biopesticide – Bacillus thuringiensis and Nucleo Polyhedro Virus – Heliothis armigera are in pipeline. Functioning in an area of 5.0 ac. Trials on the adaptability of vegetables, flowers and fruits are being taken up. Various seeds and farmers.



Damaged poly house in farmers field



JIT cvisit to fruit block at KVK



Fruit nursery in lopy bags for distribution to farmers



Mother block of Anola crop for multiplication



Nursery of vegetable crops in shadenet house



Portable Vermi compost unit





JIT visited Bio Control lab established at KVK      Demonstration for panda system of vegetable production



Vegetable cultivation with Pandal system and using feramone trap for pest control



Floricultural crops and damaged poly house in Pandasozhanur Nellore area of Puducherry

## **Puducherry Agriculture:**

### **Geography:**

The Union Territory of Puducherry encompasses an area of only 479 sq km with Puducherry town and its villages covering 290 sq.km surrounded by the South Arcot District, Karaikal town and its villages covering 161 sq.km surrounded by Thanjavur District, Mahe and its villages covering 9 sq km surrounded by the Kerala state, and Yanam covering 20 sq.km within the East Godavari District in Andhra Pradesh. While Puducherry, the head quarters of the union territory, lies 162 km south of Madras and 22 km north of Cuddalore, Karaikal is about 150 km south of Puducherry and Yanam about 840 km north-east of Puducherry on the Andhra Coast. Mahe lies almost parallel to Puducherry, 653 km away on the west coast. The State of Puducherry has a population of 0.97 million. There are two principal basins in Pondicherry: the Gingee River which cuts the territory diagonally and Pennaiyar forming a rim in south. Gingee runs North West to south east of Pondicherry. There are quite a few lakes in Pondicherry. The largest two of them are Bahour and Oussoudu mainly used for fishing purpose. They lie in Pondicherry district. The lush green scenic treat of Pondicherry is mainly due to the kind of soil found. It is a perfect blend of historical and geographical treasure. Along with rich culture and legacy, nature has treasured lots of resources in this storehouse.

### **AREA & LOCATION:**

REGION	AREA (Sq.Km.)	GEOGRAPHICAL LOCATION	
		LATITUDE	LONGITUDE
PUDUCHERRY	293	Between 11°46' and 12°30' North	Between 79°36' and 79°53' East
KARAIKAL	160	Between 10°49' and 11°43' North	Between 79°43' and 79°52' East
MAHE	9	Between 11°42' and 11°43' North	Between 75°31' and 79°52' East
YANAM	17	Between 16°42' and 16°46' North	Between 82°11' and 82°19' East
STATE	479		

## Climate and Soil:

Since Pondicherry is located in coastal area the climate here is warm and humid all through the year. The summer temperature ranges between 26° to 38° centigrade with dry and clear blue sky. Generally the summer stays from March to July and it is the most predominant season. For tourism purpose, ideal season is March to October. Pondicherry sees a very little monsoon which occurs between November to January and July to September. Winter in Pondicherry is heavily influenced by the north-east monsoons. November to January can be said to experience winter but temperature never goes below 20°. The soil of Pondicherry is mainly red ferrallite, black clay and alluvial with sandy elements. It is a plain land with almost no mountain and forest. The area is covered with dry and evergreen species of vegetation typical in tropical regions.

### Soil:

Puducherry	:	Sandy Loams, Sandy Soils, Clay and Clayey loams
Karaikal	:	Deep clay and Clayey loams, sandy loams along the sea coast
Mahe	:	Red laterite coast
Yanam	:	Alluvial

### Climate :

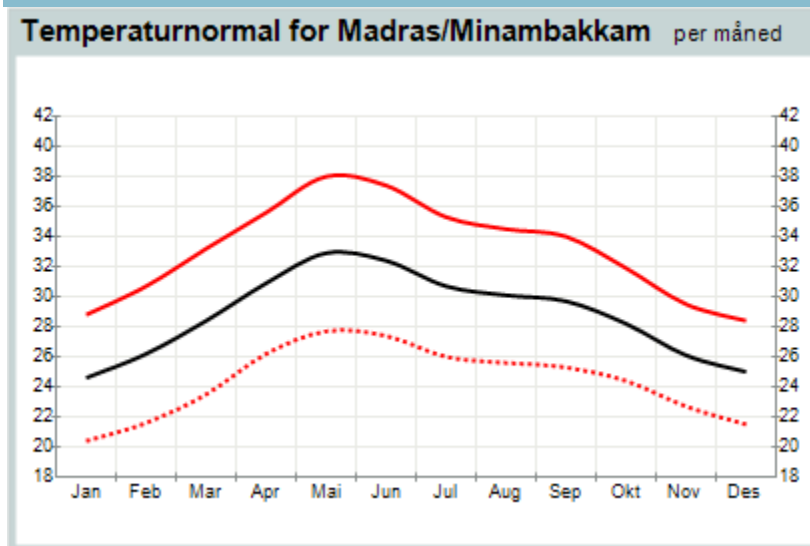
**Rainfall:**Wet season persists mainly during the north east monsoon period between October and December. The average annual rainfall is about 1300 mm.

SEASON	NORMAL	ACTUAL				
		2005-06	2006-07	2007-08	2008-09	2009-10
South West Monsoon	379	253	189	253	140	158
North East Monsoon	849	1168	878	823	1238	1192
Winter	46	31	6	74	18	22
Hot Weather	64	100	11	269	224	111
<b>Total</b>	<b>1138</b>	<b>1552</b>	<b>1084</b>	<b>1419</b>	<b>1620</b>	<b>1483</b>

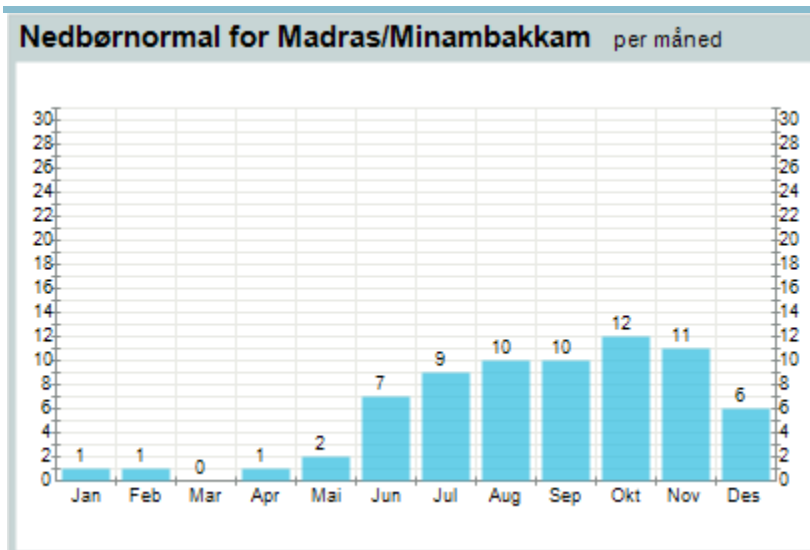
### Temperature:

The recorded maximum and minimum temperature at Pondicherry is 35.7°C in the month of June and 20.9°C in the month of January respectively. The average maximum temperature is 31.5°C and the average minimum temperature is 23.9°C.

### Average temperature per month:



### Average days with precipitation per month



### Wind:

During south west monsoon between March and September, the wind blows predominantly from the south. During June, July and August, strong wind is experienced from south west direction in mornings from south during afternoons and from south east during nights. The north east monsoon starts in October. Wind first blows from the coast then changes to northerly direction in December and gradually decreases in force during January and February. The direction also changes from northeast to east. Northeast monsoon winds are usually stronger than the southeast monsoon winds. All through the year, wind speed is between 1 and 19 Km/hour

**Cyclones:**

The coast is affected by the storms occurring during the north east monsoon (October to December). The occurrence of storms in this region is about once in three years. Pondicherry is mainly affected by cyclone generated waves during this period.

**Horticulture:**

Agriculture is the main occupation of the Pondicherry inhabitants. Pulses, spices, condiments, coconuts, different kinds of nuts are other chief crops grown in this region. Irrigation facilities have been developed since 45% of total population is engaged in farming and related occupation. Irrigation facility includes mainly tube wells and tanks which irrigate about 6765 hectares of land.

National Horticulture Mission (NHM) has been accorded administrative approval in Puducherry during 2012-13 with a total outlay of Rs.107.46 lakh and released an amount of Rs.45.67 lakhs to implement the various components of NHM schemes. Applications have been received from the farmers seeking assistance under various components of the scheme. The protected house cultivation and high-tech Horticulture like high density mango, guava planting will bring a significant change in the production of vegetables and flowers and fruits in the U.T. of Puducherry.

The cyclone "Thane" that hit Puducherry region during last week of December 2011 has an impact on Poly house structure that has been established earlier. With a view of negate fear of farmers, in respect of construction of Green houses necessary emphasis will be given on strengthening and reconstruction of Green House that has been damaged and also in designing the Green House. The farmers those interested in horticulture crops will be encouraged and given training on high Tech Horticulture. They will be taken to research institution and private farms to have a firsthand information and practical knowledge about latest technology. The farmer who is facing day to day difficulties in raising crops under protected cultivation will be given Technical support group assistance for hiring experts, technical advice, monitoring, and evaluation. The Horticulture farmers are taken on tour to private firms like Gujarat as exposure visit for acquaint them with the Technical knowhow involved in poly house cultivation and to interact with the farmers.

**Krishi Vigyan Kendras:**

The scheme aims to support and strengthen Agricultural Research, Education, and Training in the U.T. of Puducherry by providing grant-in-aid to Pandit Jawaharlal Nehru College of Agriculture and Research Institute (PAJANCOA & RI), Karaikal, Perunthalaivar Kamaraj Krishi Vigyan Kendra (PKKV), Puducherry and Krishi Vigyan

Kendra (KVK), Karaikal. The PAJANCOA & RI is offering B.Sc (Agri.) course with an intake of 60 students per year apart from post-graduation in various disciplines. Both the KVKs at Puducherry and Karaikal are involved in training and extension support apart from the production of foundation seed. The PKKVK, which is the first KVK in the country, is responsible for the release of six varieties of paddy since its inception, and is also involved in the production of bio-pesticides.

## **AREA AND PRODUCTION OF HORTICULTURE CROPS:**

### **Puducherry Region.**

<b>Crops</b>	<b>Area in Ha '000'</b>		<b>Production in MT '000'</b>	
	<b>2011-12</b>		<b>2012-13</b>	
	<b>Area</b>	<b>Production</b>	<b>Area</b>	<b>Production</b>
<b><u>FRUITS</u></b>				
1. Banana	268.3	6708	101	4306
2. Mango	147.3	1842	137.42	2885.82
3. Lime/Lemon	15.3	84.2	11.7	88
4. Guava	66.1	158.7	58.32	496
5. Sapota	46.6	279.6	40.1	341
6. Amla	31.1	155.5	17.5	82
Others			14.55	55
<b>Total</b>	<b>574.7</b>	<b>9228</b>	<b>566.95</b>	<b>8253.82</b>
<b><u>VEGETABLES</u></b>				
1. Plantain			151	6439
2. Brinjal	81.39	813.9	142	3123
3. Bhendi	82	492	93	881
4. Tomato	12.8	72.46	13	154



5. Chillies	22.24	378.1	20	298
6. Cluster Beans	---	---	61	490
7. Lab-Lab	---	---	8	48
8. Onion	6.55	45.85	5	90
9. Amaranthus	---	---	42	145
10. Radish	6.4	24.32	8	44
11. Ash Gourd	---	---	101	1011
12. Bottle Gourd	91	31.85	36	284
13. Bitter Gourd	8.7	17.4	24	83
14. Snake Gourd	---	---	15	91
15. Ridge Gourd	---	---	11	58
16. Murungai	---	---	2	12
17. Muskmelon	5	50	5	40
18. Watermelon	10.2	102	20	240
<b>Total</b>	<b>544.88</b>	<b>7492.88</b>	<b>757</b>	<b>13532</b>
<b><u>TUBER CROPS</u></b>				
1. Tapioca	218.6	5465	449.3	7638
1. Yam	---	---	99	2475
2. Siruvalli	---	---	34.35	412
3. Others	---	---	1.5	15
<b>Total</b>	<b>218.6</b>	<b>5465</b>	<b>584.15</b>	<b>10540</b>
<b><u>BETEL VINE</u></b>	---	---	<b>3.78</b>	<b>271**</b>
<b><u>FLOWERS</u></b>				

1. Jasmine	17.4	104.4	18.86	123
2. Crossandra	8.2	32.8	6.24	38
3. Marigold	35.9	233.4	35.5	249
4. Tube Rose	8.4	37.8	.8	3
5. Tornia	---	---	.16	1.8
6. Rose	---	---	.7	3.5
7. Others	---	---	2.3	3.45
<b>Total</b>	<b>69.9</b>	<b>408.4</b>	<b>64.56</b>	<b>421.75</b>
<b><u>MEDICINAL PLANTS</u></b>				
1. Vasambu	---	---		
2. Coleus				
3. Aloevera			.2	1.8
4. Safed Musli				
5. Turmeric	20.2	60.6	50.3	133.1
<b>Total</b>	<b>20.2</b>	<b>60.6</b>	<b>50.5</b>	<b>112.4*</b>
COCONUT	831.6	98.9*	988	
CASHEW	113.2	33.62	95	34

**Action Plan (Physical & financial Phasing) for the Union Territory of  
Puducherry 2012-13**

Sl. No.	Components (In accordance with revised operational guidelines)	2012-13		Financial Required		Total	Remarks
		Phy. In Hects.	Fin in Rs. In Lakhs	Central share 85% Rs.	State share 15% Rs.		

				In Lakhs	In Lakhs		
1.	2.	3	4	5	6	7	8
I.	<b>Plantation infrastructure Development (I) Small Nursery (1 Ha)</b>	5	31.25	26.56	4.69	31.25	Krishi Vigyan Kendra, Puducherry and Private sector with credit link.
II.	<b>Fruits</b>						
	<b>Establishment of new garden (Area expansion)</b>						
	(i)Non Perennial Fruits- Banana (Sucker)	250	42.10	35.78	6.32	42.10	
	(ii)Banana (TC)	20	7.50	6.37	1.13	7.50	
	(III)High density planting (Mango, Guava) etc.	20	4.80	4.08	0.72	4.80	
	(iv)Fruit crops other than cost intensive crops using normal spacing including papaya.	25	5.62	4.8	0.82	5.62	
III.	<b>Flowers</b>						
	a)Loose Flowers	90	11.25	9.56	1.69	11.25	
IV.	<b>Spices</b>						
	a)Seed spices and Rhizomatic Spices	35	4.36	3.7	0.66	4.36	
V.	<b>Plantation Crops</b>						
	a)Rejuvenation/ Replanting Of Senile	300	45.00	38.25	6.75	45.00	

	Plantation						
<b>VI.</b>	<b>Protected Cultivation</b>						
1	Green House Structure  a)Fan and pad system 50% of the cost limited to 1000sq.m per beneficiary (5 in Nos.) (Rs 732 per sq.m)	1.00	73.34	62.33	11.01	73.34	
2	Cost of planting material and inputs of high value vegetables grown in house/Shade net house (8 Nos)	0.6	3.15	2.67	0.48	3.15	
3	Cost of Planting material and inputs of flower for poly house (Shade net house (2 Nos.)).	0.3	7.50	6.37	1.13	7.50	
4	Promotion of integrated Nutrient Management/ Integrated Pest Management						
	i)Promotion of INM/ IPM	300	3.00	2.55	0.45	3.00	
<b>VII.</b>	<b>Human Resource Development</b>						
	<b>a)Exposure visit of farmers</b>						
	i)Outside the State	2	4	3.4	0.6	4	
	ii)Outside India	1	15	12.75	2.25	15	
	<b>b)Training / Study tour of Technical staff / field</b>						

	<b>functionaries</b>						
	iii)Study tour to progressive state/units (component Minimum 5 participants)	4	3.00	2.55	0.45	3.00	
	iv)Outside India	1	4.00	3.4	0.6	4.00	
	<b>Establishment of Marketing Infrastructure for Horticulture Produce</b>						
	Cold storage unit (I in No.)	1	6	5.1	0.9	6	
	Ripening chamber (1 in No.)	1	6	5.1	0.9	6	
<b>VIII.</b>	<b>Mission Management</b>						
	<b>i)State Level</b>						
	State & Districts Mission officer and implementing agencies for administrative expenses field consultants project preparation computerization, conference etc.	1	12.60	10.71	1.89	12.60	
<b>IX.</b>	Institutional strengthening bring of vechicle, purchase of Hardware/ Software(Purchase of van for the study tours, farmers training etc.	1	10	8.5	1.5	10	
<b>X.</b>	Technical Support Group (TSG) at State Level for hiring experts/ staff, studies,	1	1.50	1.275	0.225	1.50	

	monitoring & evaluation, mass media, publicity, video conference etc.						
	<b>Total</b>	<b>1046.9</b>	<b>300.97</b>	<b>255.82</b>	<b>45.15</b>	<b>300.97</b>	

### **Other Schemes supported to Agricultureb Department:**

#### **Rashtriya Krishi Vikas Yojana:**

This is a State Plan Scheme implemented with the Additional Central Assistance from the Government of India to encourage the State Governments to increase the allocation of plan outlay for agricultural sector. Action has been initiated for the preparation of a State Agriculture Plan (SAP) and the District Agricultural Plans.

#### **Soil Resources Management and Inputs Quality Control:**

The scheme aims at monitoring the fertility status of the soils. Under this scheme, the Department is running one Soil Testing Laboratory each at Puducherry and Karaikal regions and Quality Testing Laboratories for seeds, fertilizers, and pesticides in Puducherry region. Based on testing of the soil samples, Soil Health Cards are issued to the farmers. The analysis of seeds, fertilizers, and pesticide samples is one of the statutory functions of the Department, which help in ensuring that the quality of the inputs sold by the licensed dealers is in accordance with the provisions of the Seeds (Control) Order, 1983, the Fertilizers (Control) Order, 1985 and the Insecticides Act, 1968.

#### **Promotion of Post-Harvest management:**

Farmers are facing much hardship every year in harvesting their crops and processing the produce. Through this scheme, improved threshing floors and rural godowns are made available to farmers to overcome the above difficulties.

#### **Pilot Project on Establishment of Agriculture Clinics/Self Employment Enterprises by Agri Technologists:**

The objective of the scheme is to provide self-employment opportunities to the agricultural graduates passing out from Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal and the certificate holders from the Vocational Agricultural Schools run by Perunthalaivar Kamaraj Krishi Vigyan Kendra, Puducherry and Krishi Vigyan Kendra, Karaikal. A subsidy not exceeding Rs.3.00 lakhs for agricultural graduates and Rs.0.75 lakh for certificate holders respectively is extended for this purpose.

### **Scheme for Welfare Society for Agricultural Labourers:**

“The Pondicherry Agricultural Workers’ Welfare Society” was established by the Department of Agriculture with the objective of extending various benefits to the agricultural workers of the Union Territory of Puducherry. The distribution of rain coats and mosquito nets are being taken up initially.

### **Promotion of Agricultural Mechanization:**

Farm machineries such as tractors, power tillers, transplanters and improved / conventional agricultural implements are being distributed under the scheme at subsidized cost. Machineries such as harvesters and threshers are also made available to the farmers through Uzhavar Udhaiyagams on custom hiring basis.

### **Scheme for Diversification in Agriculture through Horticultural Crops:**

Back ended subsidies are extended for various horticultural crops, apart from distributing seeds, planting materials and other inputs at subsidized cost under this scheme. Maintenance of the Botanical Garden, which is one of the important land marks of Puducherry town, and other gardens at Madagadipet & Lawspet are also covered under the scheme, apart from the annual flower shows, which are a major public attraction in all the four regions of the Union Territory of Puducherry.

### **Pilot Project on Sustainable Agriculture through Organic Farming:**

The Union Territory of Puducherry has made significant progress in increasing the productivity of the important crops through dissemination of latest technologies and timely distribution of all agricultural inputs. The scheme will involve conducting demonstrations as well as taking up certification of Organic farmers.

### **Scheme for Hi-tech Horticulture through Precision Farming and Technological Intervention**

This is a new scheme introduced in 2007-2008 and envisages scientific farming with limited resources. Conservation of water, fertilizers and other inputs and increased productivity and returns to farmers are some of the benefits expected from the scheme. Under this, farmers are extended subsidy for installation of drip irrigation and application of water soluble fertilizers and other inputs, apart from marketing support.

### **Training and Capacity building to Develop Human Resources:**

Under this scheme, the officials of the Department are deputed to the off-campus training programmes being organized by various training institutions across the country,

which is expected to increase their efficiency and productivity in the execution of their duties.

### **Introduction and Maintenance of e-governance initiatives:**

Under this all the offices of this Department including Uzhavar Udhaviyagams are computerized and networked through WAN. The Department of Agriculture is one of the earliest Departments in the Government of Puducherry to host its own website in 2003. With all the hardware in place, the Department now aims at developing the necessary software applications.

### **Scheme for Setting up of Relief Fund to Provide Assistance to Farmers:**

In case of natural calamities such as drought and floods the Department is now dependent upon the Revenue Department for funds to provide relief measures to the affected farmers. In order to obviate this need, this scheme is formulated to build a separate fund in the Agriculture Department itself to provide necessary relief and reclamation measures immediately after calamity and to ensure quicker and timely assistance to farmers.

### **Development of infrastructure for Agriculture Marketing:**

The object of the scheme is to regulate the marketing of the agricultural produce by eliminating middlemen. At present Market Committees are functioning in the three regions of this Union territory viz. Puducherry, Karaikal and Yanam. Rural markets in Puducherry region are functioning in Madagadipet, Kanniakoil, Kunichampet, Karayambathur and Maducarai. The Market Committees, which were earlier regulating the sale and purchase of the food and commercial crops, had entered the sphere horticultural produce by establishing a Uzhavar Sandhai near the Botanical garden in February 2000. Three more Uzhavar Sandhais have since been established at Lawspet, Arumbarthapuram and Ariyankuppam in Puducherry region and one in Karaikal region. The Uzhavar Sandhais facilitate direct marketing of vegetables by farmers thus fetching a fair price to them and at the same time helping the consumers get fresh and quality vegetables.

### **Integrated scheme for development, harvesting, recharging, of Ground Water:**

The following activities are undertaken under the scheme in order to conserve and utilize the ground water resources effectively.

- Rainwater harvesting and recharging ground water.
- Providing subsidy for construction of tube wells, laying of underground pipelines and installation of micro irrigation systems/submersible pump sets



- Construction of farm ponds in Karaikal region
- Assessment of ground water potential and monitoring of ground water quality

To regulate the exploitation of groundwater in the Union Territory of Puducherry, the "Pondicherry Ground Water Authority" was created under the Pondicherry Ground Water (Control and Regulation) Act 2002.

### **State Land Use Board” under “Macro Management of Agriculture”:**

This scheme aims at regulating the conversion of agricultural lands for non-agricultural purposes. The utilization of agricultural lands for industrial, educational, real estate and other non-agricultural purposes require the clearance of the Stand Land Use Board chaired by the Chief Minister. The Board has been in existence as a Centrally Sponsored Scheme since 1987, but with the discontinuation of assistance by the Government of India from the year 2010-11 onwards the scheme has now been brought under the State Plan.

### **Support to State Extension Programmes for Extension Reforms(Agricultural Technology Management Agency (ATMA):**

This is a novel scheme of the Government of India, which aims at an integrated approach to agricultural extension involving all the allied departments such as Agriculture, Animal Husbandry, Fisheries, Forestry, Dairy, etc. and implemented through an autonomous organization called the Agricultural Technology Management Agency (ATMA). Two ATMA Societies have been registered under the Societies Registration Act for Puducherry and Karaikal Districts. Under the above programme, which is overseen by an Inter Departmental Working Group (IDWG), headed by the Secretary (Agriculture), a State Agricultural Management and Extension Training Institute (SAMETI) is notified. State Extension Work Plan (SEWP) and Strategic Research and Extension Plans (SREP) have been formulated apart from taking up the programmes such as Farmers’ Field Schools, on-farm trials and demonstrations, skill development of farmers, etc. as contemplated under the scheme.

### **Puducherry Agro Service and Industries Corporation Limited (PASIC):**

The Puducherry Agro Service and Industries Corporation Limited, commonly known as “PASIC” was incorporated in the year 1986 under the Companies Act 1956 as No. 399 of 1986.

The main activity of the Corporation is the supply and distribution of all agricultural inputs through a network of 42 Agro Depots and 4 horticultural show rooms called “Vasantham”. It also sells vegetables through 5 retail outlets in Puducherry and Karaikal regions, apart from supplying fruits, vegetables, eggs etc. to the hostels/hospitals run by

the Departments of Social Welfare, Adi Dravidar Welfare, Health etc. In Karaikal Region, PASIC maintains 87 community bore wells and supplies water to the farmers for irrigation at nominal cost of Rs.5/- per hour. An Integrated Solid Waste Management Project Proposal for processing urban garbage into compost has been approved by the Ministry of Urban Development, Government of India.

### **Market Committees:**

The Department of Agriculture has established three Market Committees in Puducherry, Karaikal and Yanam regions in order to enable the farmers to sell notified agricultural commodities directly to licensed traders thus eliminating the role of middlemen and saving the farmers from exploitation.

### **Integrated Farming in Coconut Holdings for Productivity Improvement:**

The components implemented under the scheme are conducting demonstrations and establishment of organic manure units with financial assistance from the Coconut Development Board. Development and Strengthening of Infrastructure Facilities for Production and Distribution of Quality Seeds. The Government of India is providing assistance under this scheme for the construction of seed godowns, erection of seed processing units, strengthening of the Seed Testing Laboratories and the Seed Certification Agency.

### **National Project on Organic Farming:**

A model organic farm is proposed to be set up under this programme at Perunthalaivar Kamaraj Krishi Vigyan Kendra, Puducherry, apart from the conduct of training programmes and demonstrations with the assistance from the National Centre for Organic Farming. An amount of Rs.7.92 lakhs was released by the Regional Centre for Organic Farming for this purpose during 2008-09.

**Observations:**

- Polythene sheets of Poly Houses damaged by the cyclone “Thane”, that hit Puducherry in the last week of December, 2011 are yet to be replaced/ repaired. Based on interaction of the team with the farmers, it appears that the issue of payment of compensation to the effected farmers has been inordinately delayed. It is, therefore, suggested that the Government of Puducherry may make an assessment of the damage of Poly Houses and ensure appropriate compensation to the farmers at the earliest.
- Accreditation of the existing nursery at Krishi Vigyan Kendra (KVK) by National Horticulture Board. to be taken up on priority
- Poly House/Green House established in the KVK should be put to optimum use.
- U.T. administration needs to ensure focused action for establishment of nurseries, protected cultivation and creation of infrastructure for Post Harvest Management and Marketing. Project based proposals in this regard to be submitted to DAC.
- Establishment of nurseries of fruit crops with properly labeled varieties, date of grafting, method of grafting etc. be ensured for supply of good quality planting material for farmers in Puducherry and, if possible, to other states.
- Shortage of Tissue Culture plants of Banana was noted. Existing Tissue culture labs should be strengthened to provide disease free plant material of Banana to meet the demand of the farmers.
- It was observed that farmers are adopting Drip Irrigation and are satisfied with its performance. State Government may consider implementation of the NMMI scheme in the UT and annual action plan be submitted to DAC as per requirement.
- Training programmes and exposure visits to sensitize farmers about the need to adopt techniques being adopted in other States for the development of Horticulture crops to be scaled up..