

**Report of  
NHM Joint Inspection  
Team (JIT) to  
Maharashtra  
25 June to 30 June, 2011**

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## **Report of the Joint Inspection Team (JIT) on its visit to Maharashtra during 25-30<sup>th</sup> June, 2011**

The Joint Inspection Team (JIT) comprising S/Shri S.K.Kaul, AD (NHM) and Prabhat Saxena\*, Chief Consultant (PHM) visited Maharashtra during 25<sup>th</sup> - 30<sup>th</sup> June, 2011 to review progress under National Horticulture Mission programme in the State. Dr S.B. Gurav, Prof. of Horticulture, National Agricultural Research Project, Pune. Shri Mahavir Jangate, Project Manager, MSHMPB, Pune joined the team. Shri Kadar P.O. MSHMPB accompanied the team in Pune, Ahmadnagar, Kolhapur, Satara districts and Shri Ajay S. Patil, Technical officer (Fruits Production) in District Thane. A meeting was also held with Shri M.S. Devanikar, Managing Director, SHM, Maharashtra on 27.06.2011 at Pune.

### **Background and Introduction:**

Maharashtra ranks foremost on the horticulture map of the country and a forerunner in increasing area under horticulture by more than 600% within a span of a decade. As a result, access to nutritious diet has increased for the society, particularly for the poor. But though the customer is enjoying ample availability of various fruits in the market, he is not getting it at competitive prices. On the other hand, farmer is also not satisfied with the remuneration he is getting, as the prices are behaving erratically. This happens mainly because of the perishability of the horticultural produce.

Various interventions such as processing, cold chain, market tie-ups etc. were tried in the State. Though these efforts were limited and scattered, the results shown are encouraging. It is also realized that area expansion efforts should invariably be backed by suitable facilities for post harvest handling and processing including forward linkages.

### **Maharashtra Agriculture:**

- ❖ Total Geographical Area : 308,000 sq Km
- ❖ Area under Agriculture : 22198000 Ha
- ❖ Area under Irrigation : 3636000 Ha (16%)
- ❖ Area Under Fruit Crops : 15.90 L Ha
- ❖ Total Fruit Production : 103.24 L Mt

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Shri Saxena, CC (PHM) visited Pune, Ahmadnagar & Thane districts from 24<sup>th</sup> to 28<sup>th</sup> June 2011.

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## **Horticultural Development in Maharashtra -**

The State Government has started an ambitious programme of Horticulture Development through Employment Guarantee Scheme in 1990. The most important aspect of state's agriculture growth is the addition of more than 14 lakh hectares in horticulture during the last decade. It has also led to considerable exports of horticultural produce mainly grapes, mangoes, onion, fresh vegetables and various other fruits but the sector still has tremendous scope for expansion. Even though area is increase many fold, the quality of the produce as well as productivity per unit area has remained the constraints.

### **National Horticulture Mission**

The National Horticulture Mission (NHM) was launched in the Maharashtra state in 2005-06 with a objective of bringing a holistic and integrated development in the horticulture sector. It is based on cluster approach, focused development of selected crops, improvements in production and productivity, adoption of good agricultural practices aimed at promotion of exports and thrust on post-harvest management.

### **Important Achievements so far:**

The Maharashtra state has received a fund of Rs. 787.73 crore from the Government of India under the NHM so far. The expenditure incurred till the end of March 2011 is Rs. 731.22 crore. The remaining balance fund will be utilized by the end of August 2011 by way of completion of the works in progress.

Govt. of India took a major policy decision during the year, regarding revision of operational guidelines through revision of cost norms and pattern of assistance of important components. The revised cost norms/ standards for post harvest management and marketing sector is attracting more investment in these critical areas. The new components such as establishment of Tissue culture lab, high density plantation, mushroom cultivation, horticulture mechanisation, GAP certification are also introduced to achieve the holistic growth of the horticulture sector.

During the year 2010-11, it was decided to focus on components like, limited area expansion, rejuvenation, protected cultivation, post harvest and marketing infrastructure so as to enhance farmer's income through increase in productivity and value addition.

## **1) Quality Planting Material -**

### **Model Nurseries:**

Since good quality planting material is one of the most important pre-requisite for the success of this programme, more emphasis is given towards this component in NHM. An elaborate protocol has been developed for this purpose and is being strictly followed. About 48 nurseries have been developed to fill up the shortfall in the planting material of various crops. In addition to this 59 vegetable nurseries are established for production of vegetable seedlings. Assistance given so far for establishment of nurseries is Rs. 351.35 lakh.

### **Vegetable Seed Production:**

As adoption of improved varieties is quite low in vegetables, seed production of improved varieties of vegetables was undertaken by Maharashtra State Seeds Corporation (MSSC) and SAUs. Thus, about 4060 qtl seed of improved varieties and hybrids distributed to the farmers through the mini-kits. Since the Onion is a major vegetable crop in Maharashtra and quality seed is the main constraint, the major programme of Onion seed production (4092.84 qtl.) was undertaken as compared to 1526 qtl. seed production for other vegetables such as Bhendi, Brinjal, Bottlegourd, Riddegourd, french bean, Cluster bean, Chilli and Cucumber. The efforts towards making available the certified potato seed was also made, however only 300 qtl seed was made available during last year. So far assistance of Rs. 422.48 lakh is provided for vegetable seed production.

### **Tissue Culture Laboratories:**

In addition to rehabilitation of tissue culture lab, the activity of establishment of new tissue culture laboratory is introduced last year and 9 proposals of rehabilitation and 3 proposals of new tissue culture laboratories are approved so far & assistance of Rs. 49.31 lakh is provided.

### **Import of Planting material:**

So as to enhance productivity, new cultivars were introduced by importing planting material of table & wine grapes and assistance of Rs 17.61 lakh was provided to growers associations.

### **Seed infrastructure -**

Seed processing and storage facilities created through public sector viz, MSSC and SAUs to make available quality vegetable seed. 8 such units were erected with an amount of Rs 187.12 crore.

## 2) Area Expansion -

### Fruit crops:

So far, the area expansion programme for fruit crops was undertaken in convergence with EGS Horticulture scheme and thus an area of 1341359 ha was brought under fruit crops till 2009-10. However, since 2010-11, the only fruit crops outside EGS Hort scheme such as Banana, Grapes, Papaya, Strawberry and Pine Apple were included in 2010-11 and an area of 9553 ha is covered during year 2010-11. Thus total area of 217104 ha is brought under various fruit crops since inception of the NHM programme. The crop-wise details of the new plantation area are follows:

Sr. No.	Crop	Prior to NHM	Area (ha.)Expansion in NHM		Total Area
			During year	Since beginning	
1	Mango	416226	-	46139	462365
2	Cashew	147321	-	16344	163665
3	Sapota	63795	-	1957	65752
4	Pomegranate	88986	-	26109	115176
5	Kagzi Lime	29645	-	8593	38238
6	Sweet Orange	85688	-	33299	118987
7	Mandarin Orange	109337	-	38124	147461
8	Custard Apple	33097	-	7133	40230
9	Aonla	13575	-	9119	22694
10	Guava	26731	-	2622	29353
11	Grapes	45054	2122	7549	52603
12	Banana	73150	5176	14098	87248
13	Papaya	1122	2255	6018	7140
<b>Total</b>		<b>1133727</b>	<b>9553</b>	<b>217104</b>	<b>1350912</b>

## High Density Planting

High density plantation is improved technique to enhance the production and productivity of important fruit crops and becoming more popular amongst farmers of the state. This activity is introduced during last year and 48 ha area is covered for Mango and Guava with financial assistance of Rs 9.62 lakh.

### Flowers:

The open field cultivation of Roses, Jasmine (Mogra), Marigold, Tuberose, Gladiolus, Chrysanthemum etc. has been promoted under the floriculture component. The cultivation of various flower crops was taken up during last year and since beginning in an area of 1952 ha and 10619 ha which is as follows:

(Area in Ha)			
Sr. No.	Flower Type	Achievement in 2010-11	Achievement Since beginning
1	Cut Flowers	211	1154
2	Bulbous Flowers	553	2923
3	Loose Flowers	1188	6542
<b>Total</b>		<b>1952</b>	<b>10619</b>

### Spices and Aromatic plants:

Crop diversification through adoption of Spices and Aromatic plants has been given priority under NHM. There is good response from growers to Turmeric and Ginger crops due to their increasing demand in domestic as well as overseas markets because of medicinal values. The new area brought under cultivation of these spice crops is 2487 ha during the year and 9871 ha since beginning.

## 4) Rejuvenation -

### Rejuvenation of old/senile orchards:

The large area is brought under the cultivation of various fruit crops under EGS Horticulture scheme since 1990 which is prone to low in productivity due to overage. The rejuvenation programme for these old senile orchards has been taken on scientific basis to enhance the productivity. So far, the area of 28247 ha has

been rejuvenated for important fruit crops such mandarin orange, sweet orange, mango, lime and cashew etc. with cost estimate of Rs 3468.80 lakh. Crop wise details of achievements are furnished below:

Sr. No.	Name of Crop	Achievements (ha)	
		During 2010-11	Since beginning
1	Mandarin orange	343.00	5699
2	Mango	413.00	1367
3	Kagzi Lime	512.00	828
4	Cashew	162.00	379
5	Sweet orange	80.00	346
6	Others	27.00	169
	Total	<b>1537.00</b>	<b>28247</b>

### **Control of Gummosis (Phytophthora) on Citrus**

The disease called 'Gummosis' in citrus popularly known '*Dinkya*' caused by *Phytophthora* fungus causes major damage to the mandarin orange in Vidarbha region. The special package is developed to control this disease and being implemented since 2008-09. So far, the area of 4945 ha is covered in 4 districts under this package with financial assistance of Rs 256.23 lakh.

### **Good Management Practices for control of BBD:**

The package of practices called 'Good Management Practices (GMP)' for control of Bacterial Blight Disease (BBD) of Pomegranate was worked out with scientists from NRCP, Solapur and SAU scientists. This package was implemented in 2007-08, 2008-09 and 2009-10 with financial assistance from GOI (50%), State Govt (25%) and remaining 25% contribution from the farmers. So far, the package was implemented in 18 Pomegranate growing districts on an area of 62468 ha with total financial assistance of Rs 13251.66 lakh which includes GOI and state Govt share.

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## **5) Creation of Water resources -**

As the irrigation facilities in the state are quite low, development of water resources through the community tanks is being taken up in NHM. Though the provision made in the norms is Rs. 10 lakh/10 ha, a model has been developed by the Maharashtra state with the help of NABCON with an estimate of Rs. 4.86 to 5.50 lakh per 10 ha. depending upon the model. As per the calculations given by NABARD these structures give a BCR (benefit-cost ratio) of 1.92 to 3.59 depending upon the size of the tank and the internal rate of return from it is greater than 50%. Since the lining material is applied there are no maintenance costs for 4 years.

During the year 2010-11, the programme was focussed on completion of incomplete community tanks.

So far, about 3239 community tanks have been constructed and 1143 are in progress with a budget of Rs. 12316.53 lakh.

## **6) Protected cultivation -**

The farmers in Maharashtra state are pioneer in using protective cultivation technology through green houses, shadenet houses and mulching. Their efforts are well recognised and supported through NHM for maximising production and thereby income. The standards for erection of shadenet house are worked out with the help of scientists and 4 different models are developed to facilitate the scientific erection shadenet houses. The process of finalising technical standards for Green house is in process and being finalised by NHB very shortly.

In protected cultivation, 275 green houses and 235 shadenet houses (as innovative activity) have been erected until 2009-10. However, due to revision in cost norms of all the activities under protected cultivation and introducing shadenet house as a regular activity resulted in quantum jump in achievement under this component. Thus the 125 Poly houses and 664 Shadenet house are erected in the year 2010-11 alone with a total expenditure for this component is Rs. 1350.47 lakh.

The detail of achievement during last year is depicted as below:

Sl. No.	Activity	Achievements		
		Upto 2010-11	During 2010-11	Since Beginning
1	Green House (nos)*	275	125	400
2	Shadenet house (nos)*	235	664	899
3	Mulching (ha)	3106	749	3855
4	Others- (ha) (tunnels, anti-bird net etc)	2119	203	2322

\* Each unit is of 1000 sq.m.(0.10 ha)

Thus, total area brought under protected cultivation in the state is 6307.20 ha.

One of the main problems faced in open field production of vegetable seedlings is the occurrence of diseases and pests and low germination percentage. To mitigate these problems production of vegetable seedlings in a shade net house and using plastic tunnels is being promoted.

## 7) Promotion of IPM/ INM -

In INM and IPM, the focus has been on developing the bio-control agents on a large scale and also to develop the laboratory facilities for testing of leaf tissue etc. Under this programme, so far, 3 disease forecasting centres, about 25 Bio-control labs and 9 Plant health clinics and 21 leaf tissue analysis labs have been set-up in the state under the NHM. In addition to this, promotion of IPM/ INM is executed on 44279 ha with an expenditure of Rs 510.89 lakh.

## 8) Technology Demonstration:

### Indo-Israel projects -

Three centres of excellence for 3 fruit crops viz, Mango, Citrus and Pomegranate were approved and 2 projects on Mango and Citrus are in the process of establishment. These projects being implemented under the technical guidance of Israeli experts and with the help of scientists on University experimental farm as well as farmers field. The detail of progress of the projects is as under:

(Rs. in lakh)

Sl. No.	Name of Project	Project estimate	Progress
1	Centre of Excellence for Mango at Dapoli (Ratnagiri)	636.00	107.50
2	Centre of Excellence for Citrus at Nagpur	458.00	91.00
3	Centre of Excellence for Pomegranate at Rahuri (Ahmednagar)	454.00	0.00
<b>Total</b>		<b>1548.00</b>	<b>198.50</b>

#### **Use of skirting bags in Banana:**

The demonstration on use of skirting bags for production of export quality banana was undertaken on farmers field through Krishi Vigyan Kendras (KVKs) at 3 places with 300 farmers covering 80 ha area and assistance of Rs 21.87 lakh was provided for the purpose.

#### **Post Entry Quarantine**

Post Entry Quarantine (PEQ) facilities are established in all four SAUs to issue quarantine certificates for import/ export purpose. An expenditure of Rs 301.25 lakh is incurred towards this as against total estimated cost of Rs 500.00 lakh.

#### **9) Post Harvest Management and Marketing -**

In Post harvest management and Marketing component, emphasis was given for promotion of Pack houses. In the last five years about 1924 pack houses have been approved. Efforts were also made to establish cold chain infrastructure, which includes establishment of 28 pre-cooling units, 38 cold storage units, 15 refer van and 25 functional collection and grading units. Under post harvest handling and storage component, 544 value addition activities were taken up.

Under marketing component, 10 rural markets are approved as marketing infrastructure for direct marketing at village level. In addition to this, 1 terminal

market to be established by Dept of Cooperation and Marketing in Thane district near Mumbai is in final stage of approval and another terminal market to be established at Nagpur is approved principally by GOI. The progress made under this component is given below:

Sl. No.	Sub-component	Achievements	
		During 2010-11	Since Beginning
1	Pack House	624	1924
2	Pre-cooling unit	14	28
3	Cold Storage unit	11	38
4	Refer Van	3	15
5	Ripening Chamber	14	14
6	Primary Processing Unit	40	329
7	Low cost Onion Storage structures (Kanda chawl)	0	215
8	Rural Markets/ Apni Mandis	0	10
9	Functional infrastructure	11	25

#### **10) Human resource Development (HRD) –**

Human Resource Development is an important element in implementation of NHM programme in the state. A number of steps were taken during last year. Some of the programmes are as under:

##### **Farmers Field Schools (FFS):**

The FFS concept was applied in fruit crops for the first time in Maharashtra state for Pomegranate crop in the campaign for the control of bacterial blight disease (BBD) of Pomegranate. 180 such FFS were started in 2007-08 and were completed successfully. During 2008-09, 510 FFS and 515 FFS in 2009-10 for six major fruit crops (Mango, Cashew, Mandarin Orange, Sweet Orange, Pomegranate and Banana) were started and are completed successfully. 570 facilitators were trained in 19 Training of facilitator (ToF) programmes. In 2010-11, 198 FFS were organised for 7 major horticulture crops (6 fruit crops & 1 vegetable) with financial assistance of Rs 69.89 lakh.

##### **Farmers/ Officers trainings and study tour:**

Apart from the FFS, trainings/ study tours are organised for farmers within and outside districts as well as outside state. During the year 2010-11, 7602 farmers

(training days- 22807) are involved in the training/ exposure visit of the farmers and Rs 120.12 lakh is provided for the purpose. Similarly 562 officers/ staff were trained at various places with expenditure of Rs 9.54 lakh.

### **Entrepreneurs/ Gardeners training:**

Employment opportunities were created by self employment or supply of trained manpower to the industry through entrepreneurs/ gardeners training programmes. Total 10 such training programmes were organised by SAUs and KVKs with financial implication of Rs 74.09 lakh. 350 gardeners and 75 entrepreneurs were developed through these trainings.

### **Training of officers (outside India):**

The training of 18 officers from the state was organised on 'Cultivation technology of Citrus, Mango & Pomegranate' in Israel during March 2009 with a objective to expose them for advanced technology. This programme was part of ongoing Indo- Israel work plan. Similarly 3 officers/ scientists were involved in training on 'Agricultural Extension- Methods & Tools' in Israel during February 2011.

### **11) Good Agriculture Practices (GAP) certification:**

A new component of GAP certification has been introduced under NHM, to encourage growers to adopt good agricultural practices in line with global GAP, so that farmers are able to get better price for their produce in domestic as well as international market.

A new project on 'GAP adoption and Global GAP certification for Grapes' to avoid the problems faced by the grape growers during export of grapes in 2009-10. The total project cost was Rs 486.94 lakh covering 7214 farmers in 8 districts and the assistance given so far is Rs 38.00 lakh.

### **12) Horticulture Mechanisation:**

Horticulture mechanization has been included as a new activity to promote mechanization of horticulture related activities to improve farm efficiency and reduce drudgery of farm work force. As against approved programme of Rs 185.62 lakh, funds of Rs 68.99 lakh are used to provide assistance to the growers to procure power operated machines/ tools.

### **13) Beekeeping for Pollination**

In order to maximize agricultural production, honeybee can be used as an important input and it is an important activity, which not only increases the productivity in cross pollinated crops but also increase the income of the farmers through honey production. The state level organisation, Khadi and Village Industries Board (KVIB), Mumbai is identified as 'State Designated Agency' to coordinate and implement this activity. During the year 2010-11, 530 honey bee colonies and 581 bee hives are distributed to beekeepers with a financial assistance of Rs 9.45 lakh.

### **14) Mission Management –**

A number of measures have been taken up under the mission management for effective implementation of the NHM activities. The important activities are as under:

- A fully dedicated Board has been created for implementation of the Mission.
- Under the aegis of this Board, District Mission Committees are functioning at district level, which are chaired by the district collectors.
- Independent NHM cell is created at every district level.
- As per the permission given by the GOI, Field consultants have been hired in most of the blocks.
- Comprehensive web-based software called 'HORTISNET' has been launched
- The process of concurrent monitoring and evaluation has been initiated using the services of the expert personnel from the SAU.
- A Technical Support Group has been formed for obtaining guidance and supervision on various technological matters.
- State level workshops were organised to address issues in Exportable Banana Production, GAP adoption & certification in Grape and Good Management Practices in Pomegranate

### **Highlights of Achievement: 2010-11**

Divisional & District level Workshops organised to educate implementing agency & other stakeholders

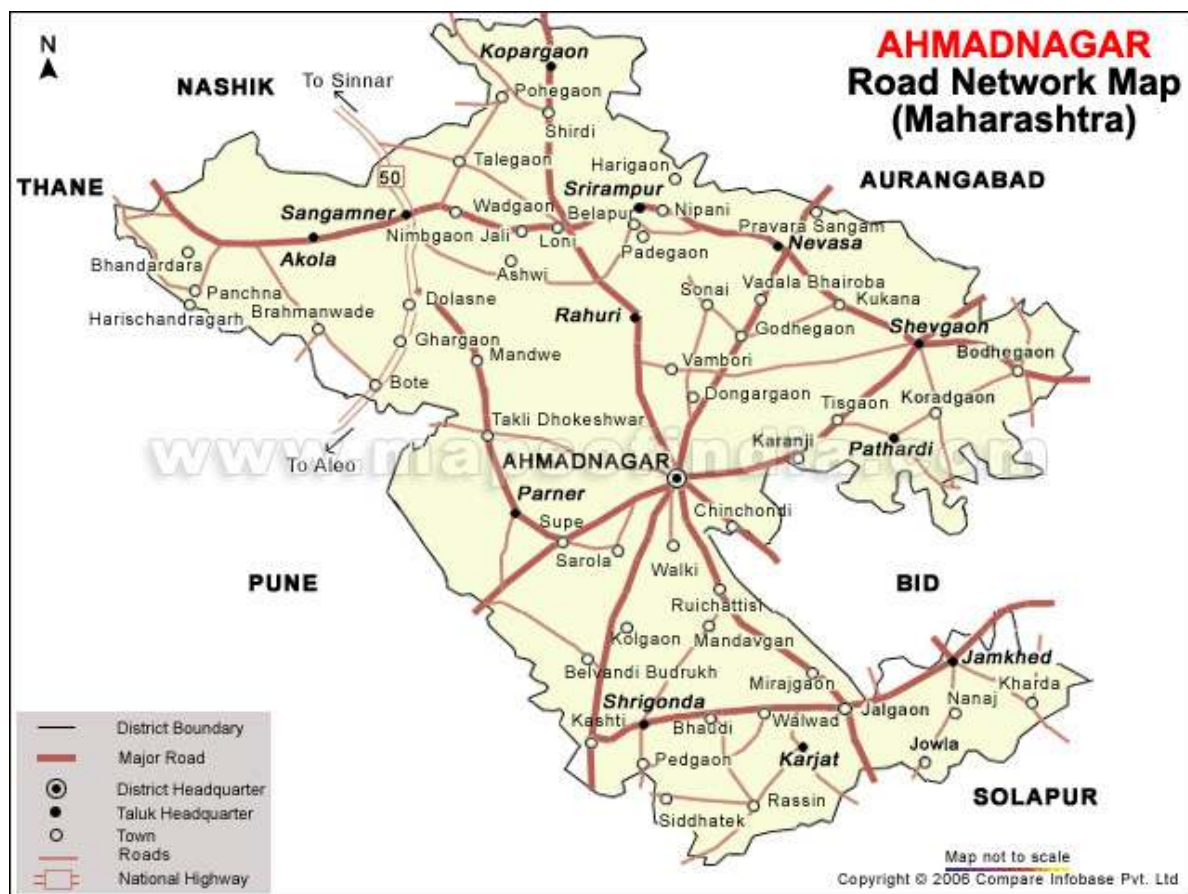
- ❖ Involvement of growers in planning & implementation
- ❖ Distribution of detailed working guidelines in Marathi
- ❖ DNA fingerprinting for genetic purity of citrus rootstocks
- ❖ Skill imparting training for hi-tech horticulture e.g. shade-net house cultivation
- ❖ Mass publicity about Post harvest Management & marketing
- ❖ Convergence of programmes: APEDA (AEZ), NHM, RKVY, NMPB and MSAMB (Marketing Board)
- ❖ Involvement of private sector in development of Cold Chain Infrastructure

## Field Visits

Joint Inspection Team (JIT) visited the sites of beneficiaries under National Horticulture Mission programme in the districts of Ahmednagar, Pune, Thane, Kolhapur, Sindhudurg and Satara.

## **Visit to Ahmadnagar**

Ahmednagar is the biggest district of Maharashtra in terms of area and population. The total geographical area of the district is 17.41 lakh ha. The net cropped area is 12,56,500 ha, out of which an area of 3,30,000 ha. (26.27 %) is under canal (84,000 ha) and well irrigation. About 9,26,500 ha. (73.73 %) area is rain fed. The area under Kharif crops is 4,60,000 ha. (36.6 per cent) while 7,58,000 ha (60.32 per cent) area is under Rabi crops. A multiple cropping system is followed on 1,10,500 ha. area. A total of 8.73 per cent area of the district is under forest.



## **Socio-economic and Agriculture Situation in the District**

Total population of the district is 40.88 lakhs of which 32.84 lakhs is living in the rural area whereas 8.04 lakhs lives in urban area. The literacy of the district is 75.82 percent. The female to male ratio of the district is 941.

In the district, there are 6.8 lakh farming families, out of these 32.45 per cent farmers are having less than 2 ha land holding, 57.89 per cent farmers are having land holding between 2-10 ha. and 9.66 per cent farmers have a land holding with more than 10 ha.

Total 3.8 lakhs are agriculture laborer, 7.88 lakhs are SC/ST population, 2.11 lakh are dairy and sheep owners and total working population is 14.32 lakh. The horticulture area & productivity in the district is as under:

<b>Horticulture</b>			
Sr.No	Commodity	Area (ha)	Productivity (T/ha)
<b>A) Fruits</b>			
1	Mango	3251	10.0
2	Sapota	3092	5.2
3	Sweet Orange	600	7.0
4	Pomegranate	6093	5.0
5	Aonla	500	8.0
6	Custard apple	1200	2.0
7	Guava	2000	5.0
8	Grape	800	8.0
9	Lime	3200	2.5
10	Banana	300	35.0
11	Fig	150	2.0
<b>B) Vegetables</b>			
1	Onion	65000	150
2	Potato	1115	100
3	Tomato	2200	150
4	Brinjal	1400	100
5	Okra	1000	600
6	Chili	1800	50
7	Cabbage/ Cauliflower	790	150
8	Peas	222	40
9	Other leafy vegetables	1100	80
<b>C)</b>	<b>Flowers</b>	3,112.00	10 to 15





**Date 25.06.2011**

S No.	Details	Remarks
1.	Name of the project	Establishment of Pomegranate (Bhagwa) Model Nursery
2.	Year of Implementation	2006-07
3.	Project period	2006-08
4.	Name of implementing Agency	Chief Scientist (Seeds) Seed cell unit, central nursery, MPKV, Rahuri
5.	Location of project	Central nursery, MPKV, Rahuri
6.	Total project cost	18.00 lakh
7.	Amount Released by DAC	18.00 lakh
8.	Expenditure incurred	18.00 lakh
9.	<b>Status</b>	
	Name of Nursery and crop for which plants are produced	Central nursery, MPKV, Rahuri Pomegranate (Bhagwa)
	Name of crops for which seeds produced	
	Quantity produced	9,97,306 from 2006-07 to 2010-11
	Quantity sold	8,09,621 from 2006-07 to 2010-11
	Rate	` 15 per layer ` 17 for Saplings in poly bag
	Amount realized	1,23,50,275/- (2010-11)
	Whether NHM logo displayed	Yes

**Date 25.06.2011**



S No.	Details	Remarks
1.	Name of the project	Extension quality awareness & market led extension activities in post harvest for fresh processed products
2.	Year of Implementation	2006-07
3.	Name of implementing Agency	MPKV for training of farmers entrepreneurs, students, scientist of Jurisdiction
4.	Location of project	Post Harvest Technology Centre, MPKV, Rahuri
5.	Total project cost	19.50 lakh
6.	Amount Released by DAC	19.50 lakh
7.	Expenditure incurred	19.50 lakh
8.	<b>Status</b>	
	Capacity of Unit	200 ltr/day
	Commodity	Pomegranate, Apple, Mango, Tamarind, etc.
	Equipment Purchased	R.T.S line, weighing balance, pomegranate dry/extractor water filter etc
	Condition of infrastructure	Good/Working
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	yes
	<b>Observations</b>	
	2010 – 11 Visitors	3000 entrepreneurs visited so far.
	2010 -11	Production cost per RTS is Rs 3/200 ml Pomegranate Rs 6/-200 ml
		35000 Bottles produced
	2010 -11	Profit – 50% of the cost.

**Date 25.06.2011**



Sl No.	Details	Remarks
1.	Name of the project	Infrastructure for Vegetable seed
2.	Year of Implementation	2006-07
3.	Project period	
4.	Name of implementing Agency	Chief Scientist (Seeds) Seed Cell, MPKV, Rahauri
5.	Location of project	MPKV, Rahauri
6.	Total project cost	` 5.00 lakh
7.	Amount Released by DAC	` 5.00 lakh
8.	Expenditure incurred	` 4.16 lakh
	Whether NHM logo displayed	Yes
	<b>Observations</b>	
		One gravity separator and air compressor and elevator, storage, capacity have been established with NHM funds.

**Date 25.06.2011**



S No.	Details	Remarks
1.	Name & address of Beneficiary whose field visited	Raosaheb Bapusaheb Dhokchaule A/P Khandala Tal. Shrirampur
2.	Total land available with the beneficiary (ha)	0.10 R
3.	Type of Protected cultivation activity (Hi-tech/Normal GH, Shade net, plastic tunnel)	Shade net
4.	Year of establishment	2010
5.	Size of Structure (Sq. m)	18 x 56 mt.
6.	Total cost	` 3.09 lakh
7.	Agency involved in fabrication and installation	Shri Lande, Pune
8.	Total subsidy paid and date of payment	` 1.36 lakh
9.	Crop being grown	Color capsicum
10.	Condition of structure	Good
11.	Condition of crop	Fruit setting
12.	Tie up with market	Surat, Delhi, Jaipur
13.	General upkeep (very good/good/average/poor)	v. good

**Date 25.06.2011**



S No.	Details	Remarks
1.	Name & address of Beneficiary whose field visited	Madan Bhausahab Choudhary
2.	Total land available with the beneficiary (ha)	0.13 ha
3.	Type of Protected cultivation activity (Hi-tech/Normal GH, Shade net, plastic tunnel)	Shade net
4.	Year of establishment	2010
5.	Size of Structure (Sq. m)	28 x 36 mt.
6.	Total cost	` 3.10 lakh
7.	Agency involved in fabrication and installation	Shri Lande, Pune
8.	Total subsidy paid and date of payment	` 1.36 lakh
9.	Crop being grown	Color capsicum
10.	Condition of structure	Good
11.	Condition of crop	Fruit setting
12.	Tie up with market	Surat, Delhi, Jaipur
13.	General upkeep (very good/good/average/poor)	v. good



**Date 25.06.2011**



S No.	Details	Remarks
1.	Name of Project	Bottle Gourd Powder manufacture unit Arrow Agro Industry, Shrirampur
2.	Year of Implementation	2010
3.	Project period	1 Year
4.	Name of Beneficiary	Shri Madukar Bhimaji Shide
5.	Location of Project	MIDC, Plot – 202, Shrirampur
6.	Total Project Cost	` 10.25 lakh
7.	Subsidy amount	` 3.66 lakh
8.	Amount Released & date	` 1.83 lakh
9.	Expenditure incurred	` 10.25 lakh
10.	<b>Status</b>	
	Capacity of unit	3 ton/year (powder)
	Commodity	Bottle Gourd Powder
	Equipments purchased	Tray, dryer, cutter, oven, grinder
	Condition of infrastructure	Excellent
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	1 <sup>st</sup> Installment
	<b>Observation</b>	
		Ist Phase has been commissioned. Balance amount of subsidy to be released by SHM. Balance amount of subsidy is eligible for release.

**Date 25.06.2011**



S No.	Details	Remarks
1.	Name of Project	Banana Ripening Chamber
2.	Year of Implementation	2010-11
3.	Project period	1 Year
4.	Name of Beneficiary	Shinde Pramod Kakasaheb
5.	Location of Project	Mewasa Kd.
6.	Total Project Cost	` 30.00 lakh
7.	Subsidy amount	` 12.00 lakh
8.	Amount Released & date	` 6.00 lakh
9.	Expenditure incurred	` 36.00 lakh
10.	<b>Status</b>	
	Capacity of unit	10 MT/chamber with 4 chambers
	Commodity	Banana, Mango
	Equipments purchased	Puffpanel 80 mm, condensing unit, cooling coil, ethylene generator & gas system
	Condition of infrastructure	Good
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yes
11.	<b>Observation</b>	
		NHM subsidy of ` 12.00 lakh sanctioned out of which ` 6.00 lakh has been released by SHM. Balance subsidy is eligible for release.

**Date 26.06.2011**



S No.	Details	Remarks
1.	Name of Project	Integrated Project (NHM) which includes pack house, BBD pomegranate, power tiller, poly house, micro irrigation and farm pond
2.	Year of Implementation	2010-11
3.	Project period	1 Year
4.	Name of Beneficiary	Shri Appa Namdev Wagh
5.	Location of Project	Pimpalgaon Ujani, Angar
6.	Total Project Cost	` 12.00 lakh
7.	Subsidy amount	` 5.00 lakh
8.	Amount Released & date	` 1.50 lakh
9.	Expenditure incurred	` 12.00 lakh
10.	<b>Status</b>	
	Capacity of unit	Pack House 50 MT/year Pond – 900 m <sup>3</sup>
	Commodity	Pomegranate, mandarin orange
	Equipments purchased	Power tiller
	Condition of infrastructure	Good
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Part subsidy released to farmer.
11.	<b>Observation</b>	
		It is an integrated project comprising of



		pack house, farm mechanization, micro irrigation, shadenet house and farm pond.
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**Date 26.06.2011**



S No.	Details	Remarks
1.	Name of Project	Integrated Project (PHM)
2.	Year of Implementation	2010-11
3.	Project period	1 Year
4.	Name of Beneficiary	Trimurti Food Tech Pvt. Ltd.
5.	Location of Project	At Wadgaon Tal. Parner, distt. Ahmednagar
6.	Total Project Cost	` 851.33 lakh Subsidy considered under NHM Cold storage - ` 60.00 lakh, pre-cooling - ` 24.00 lakh, processing unit - ` 9.60 lakh, ref. van - ` 9.60 lakh and collection and grading unit - ` 12.00 lakh
7.	Subsidy amount	` 116.70 lakh
8.	Amount Released & date	To be released
9.	Expenditure incurred	` 875.80 lakh
10.	<b>Status</b>	
	Capacity of unit	C. Storage – 2500 MT Pre – cooling – 6 MT, Ref. Van – 10 MT
	Commodity	Green Peas, Mango, Guava, Vegetables, onion etc.
	Equipments purchased	Compressors, insulation units, generator,

		conveyer belt etc
	Condition of infrastructure	Good
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yet to be disbursed by SHM.
11.	<b>Observation</b>	
		It is an integrated project comprising of cold storage, pre cooling unit, processing unit, refer van and collection and grading unit.

## Visit to Pune District



**Date 26.06.2011**





S No.	Details	Remarks
1.	Name of Project	Integrated PHM Project
2.	Year of Implementation	2009-10
3.	Project period	2 Years
4.	Name of Beneficiary	M/s Bafana Exports.
5.	Location of Project	Pathethan, Tal, Daund, Pune
6.	Total Project Cost	` 268.00 lakh
7.	Subsidy amount	` 48.90 lakh
8.	Amount Released & date	` 24.45 lakh
9.	Expenditure incurred	` 270.40 lakh
10.	<b>Status</b>	
	Capacity of unit	C. Storage – 1225 MT Pre – cooling – 6 MT, Ref. Van – 6 MT
	Commodity	Green Peas and pomegranate
	Equipments purchased	Pre coolers, Compressors, insulation units, generator etc
	Condition of infrastructure	
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	1st Installment 50% disbursed.
11.	<b>Observation</b>	
		Main crops are Grapes and pomegranate, from own field and purchased from farmers 2009-10. They suffered huge losses due to CC problem. 2010-11 250 MT of grapes, pomegranate

	and vegetables were exported.
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**Date 26.06.2011**



S No.	Details	Remarks
1.	Name of Project	Bio Control Lab (Private Sector) Jay Bio Tech
2.	Year of Implementation	2009-10
3.	Project period	2 Years
4.	Name of implementing Agency	Agri. Department, Pune
5.	Location of Project	A/P Pathethan, Tal Daund
6.	Total Project Cost	` 80.00 lakh
7.	Amount Released by DAC	` 40.00 lakh
8.	Expenditure incurred	` 80.00 lakh
9.	List of equipments procures	Fermenter, autoclave, laminar at cold room, spectrophotometer etc
10.	Whether trained manpower employed	Yes, Dr. Santosh Chavan, PHM
11.	Arrangements made to meet recurring cost	Own funds
12.	<b>Status</b>	
	Name of Agents produced	Trichoderma, beaveria
	Quantity produced	Trichoderma – 1 tons/months Beaveria – 1 tons/months
	Quantity sold	Testing on own farms.
	Amount realized through analysis	
	General condition of lab during the time of inspection	Good

**Date 26.06.2011**



S No.	Details	Remarks
1.	Name of Project	Ice Age cold Storage
2.	Year of Implementation	2007-08
3.	Project period	
4.	Name of Beneficiary	Shri Iceage cold storage Pvt. Ltd.
5.	Location of Project	At Kuruli Tal Rajgurunagar, Distt. Pune
6.	Total Project Cost	` 225.00 lakh



7.	Amount Released & date	` 20.00 lakh
8.	Expenditure incurred	` 225.00 lakh
9.	<b>Status</b>	
	Capacity of unit	2000 MT
	Commodity	Potato, Mango, apple, pulp, flowers & vegetable
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yes
10.	<b>Observation</b>	
		Term Loan from Axis Bank @ 12% - ` 168.00 lakh
		Balance Term Loan - ` 1.05 lakh
		500 MT capacity has been converted to frozen temperature (-). The project is running and potato seed growers are utilizing the facility.

**Date 27.06.2011**



S No.	Details	Remarks
1.	Name of Project	Sai Banana, Shirgaon
2.	Year of Implementation	2010-11
3.	Project period	One Year & Six Month
4.	Name of Beneficiary	Shri. Usman Dagdu Shaikh
5.	Location of Project	Shrigaon, Tal Maval Distt. Pune

6.	Total Project Cost	` 48.51 lakh
7.	Amount Released & date	` 10.51 lakh, April 2010, Hilly Area @ 55%
8.	<b>Status</b>	
	Capacity of unit	30 MT
	Commodity	Banana
	Equipments purchased	Genset, Ethylene gas, Compressor, Machine, Refrigeration system,
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yes
9.	<b>Observation</b>	
		Commercial production started, 2010
		Has own 10 Area of Banana Plantation in Sholapur Distt.
		Air cooled condensing unit has been installed.
		Co <sub>2</sub> exhaust system, civil construction, puf paneling foam agro ripe company
		Unit running and commercial viable
		Promoter informed that on an average profit of ` 1/kg is available.
		Loan of ` 26.60 lakh from Bank of Maharashtra out of which ` 15.00 lakh repayed.
		Weight loss is minimal during the ripening i. e 300 gm/crates of 20 kg.
		Crate – 7000 Nos of 20 kg of Banana.

**Date 27.06.2011**







S No.	Details	Remarks
1.	Name of Project	A-One Bio Tech
2.	Year of Implementation	2006
3.	Project period	2006-2007
4.	Name of Beneficiary	Dist Sup. Agri Officer, pune
5.	Location of Project	Sr. No. 1711 Plot No. 115, Ganeshnagar, Thergaon
6.	Total Project Cost	` 10.62 lakh
7.	Amount Released & date	` 5.31 lakh (Sep. 2010)
8.	<b>Status</b>	
	Name of crops which seeds produced	Banana & Ornaments
	Quantity produced	6 lakh Plants (2010-11)
	Quantity sold	4.5 lakh Plants
	Rate	` 8 – 10
	Amount realized through sale	` 35 – 40 lakh
	Whether NHM logo displayed	Yes
9.	<b>Observation</b>	
		Technical Expert – Mr. Dilip Jadhav & Mr. Rohini Jadhav (M Sc. Botany)
		Employee 12, Tech. Expert Sham Jeerkar (BSc (Bio Technology))
		Term Loan balance 3 lakh, ` 7.00 lakh repayed in time
		Project running in profit with annual profit of ` 4.00 lakh
		Documentation at farmers field is being done on recommendations of SHM.
		Virus indexing and genetic feasibility test is must for maintaining the quality. Initial source of material needs to be specified.

		Farmer complaint – so far no complaint from farmer
		NHM/SHM assistance has helped the project.

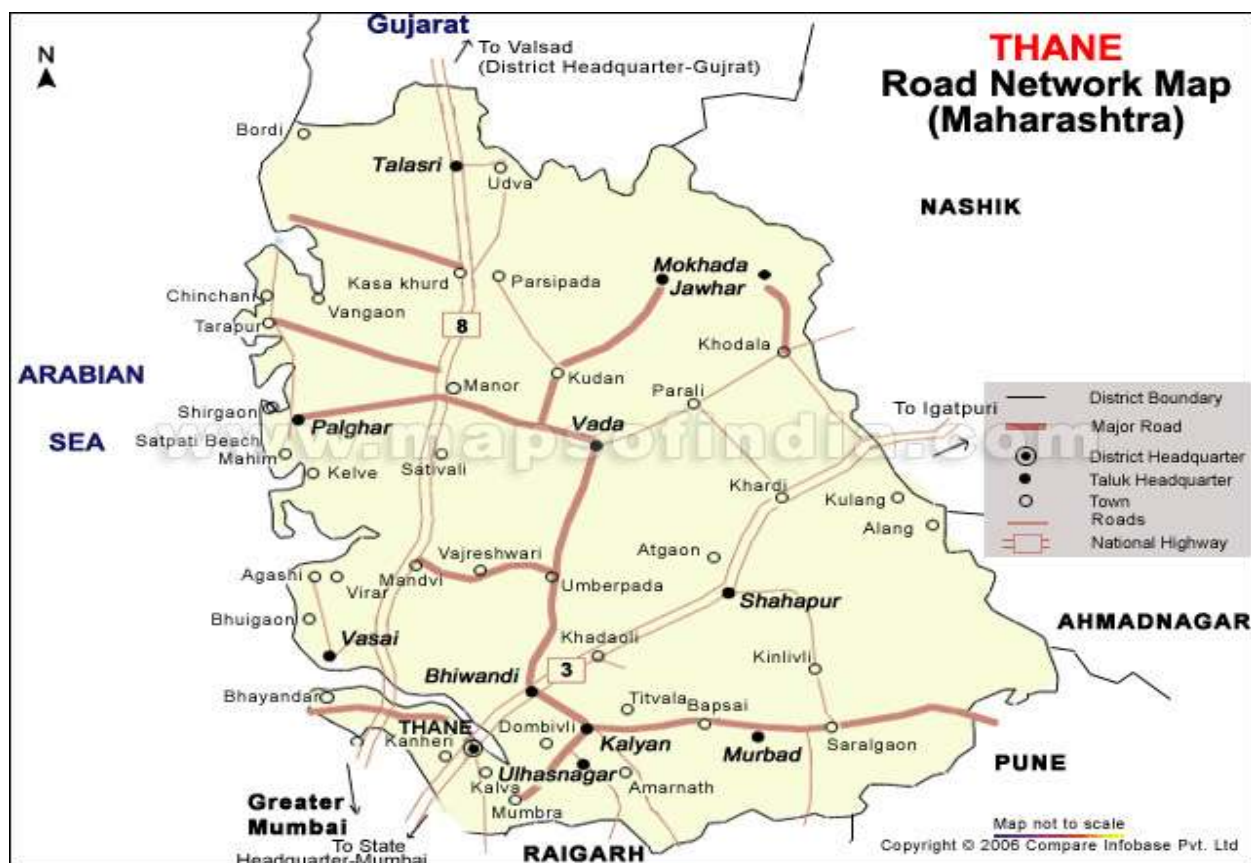
## Visit to Thane District

### Location

Thane District ranks third amongst the industrially developed districts of Maharashtra. Located in Northern part of konkan region. District is surrounded by Sahyadri Mountains towards eastern side & Arabian sea to the western side. To the northern part of the district are deep forests of Gujarat State while to the south is situated world famous Mumbai city.

### ii) Geographical Features

Thane District has geographical area of 9558 sq. kms. Positioned at 72.45 & 73.48 east longitude and 18.42 & 20.20 north latitude. Based on the population, districts stands second in the state while on the basis of the area, stands sixteenth in the state. There are 13 Blocks & 15 Talukas in the Districts. Thane, Kalyan, Ulhasnagar, Ambernath, Bhiwandi, Vasai & Palghar talukas are industrially developed while Shahapur, Murbad, Wada, Jawhar, Mokhada, Dahanu, Vikramgad & Talasari talukas are mostly hilly in nature & rural population in this talukas comprises mostly of scheduled tribes (Adivasi) people.



**Area under Principal crops cultivated :**

Fruit Vegetable, Spices, Flower – Area – '00 ha, Production - '00MT, Productivity – MT/ha Food Grain & Oil seed Area - '00 ha, Production - '00MT, Productivity – Kg/ha, Coconut- Production - Lakh nuts, Production – '00 L.nut/ha, Lilly flower- Production- Lakh Flower, Lilly flower- Productivity - lakh/ ha. Major Crops Area (in Hec.) Production Productivity (in kg./ha)

Paddy	3096	1406	2202
Nagli	160	125	781
Other	128	75	586
Total Cereal	1694	3296	1945
Pulses	195	117	600
Total Food grains	1924	3413	4654
Oilseeds	35	17	485
Grand Total	1924	3430	1785
Vegetables	72	846	12
Fruits	152.5	975	6
Coconut	22	178	80
Spices	1.90	169	0.90
Flowers	3.95	15.15	3.83
Lilly flower	0.80	240	3

Source: District Superintend Agriculture Officer, Thane.

On 28<sup>th</sup> June, 2011, Chief Consultant (PHM) visited two ripening chambers in the district. The details are under

Sl No.	Details	Remarks
1.	Name of the project	Shreeji Fruits & Agro Food processors – Ripening Chamber
2.	Year of Implementation	2010-11
3.	Project period	2010-11
4.	Name of Beneficiary	Shreeji fruits
5.	Location of project	Sr. No.-152/2 satya geeta estate Kaman Tal. Vasai Distt. Thane
6.	Total project cost	212.20 Lakh
	Source of Finance	
	Own contribution	80.33 Lakh
	Bank Loan	131.87 Lakh
	Loan amount & Date	Axis Bank- Surat Rs 120, dt-30/3/2010 & 21/1/2011. Kotak Mahindra- Rs 11.87 Lakh dt.

		30/3/10
	Subsidy Sanctioned	(55%) Rs. 109.83 Lakh
7.	Subsidy released & date	Not so far
8.	Expenditure incurred	Rs. 190 Lakh
9.	<b>Status</b>	
	Capacity of unit	80.64 MT/day, 22500 MT/ Annum (Actual installed capacity of 7 Chambers–200 Tons of Banana)
	Commodity	Banana, Mango, Papaya etc.
	Equipments purchased	Already received at site.
	Condition of infrastructure	Good & is in operation
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yet to receive from SHM

- Blue star has supplied the equipments for establishment of 5 chambers but later-on 2 chambers have been provided with partition insulated panels.
- PCC and other civil works carried out by M/s Gayatri Construction.
- PUF Insulation supplied & installation have been completed.
- Trolleys- 10 nos. pallets-600 nos.
- Unit is having PLC (which is under installation)
- Unit is working. Banana is kept in five chambers.

Glimpses of some of the activities are placed below:-





S No.	Details	Remarks
1.	Name of the project	Shri Shantnu Vasant Meher
2.	Year of Implementation	2010-11
3.	Project period	2010-11
4.	Name of Beneficiary	Shri Shantnu Vasant Meher
5.	Location of project	Gala No. 8/4 Jai Shriram Compound Dapoda,. Bhivandi,

		District- Thane
6.	Total project cost	Rs 70.47 Lakh
	Source of Finance	
	Own contribution	Rs 16.09 Lakh
	Bank Loan	Rs 54.83 Lakh
	Loan amount & Date	Bank of Maharashtra- Rs 34.38 Lakh, dt-28/12/10 & 11/1/11. Deccan Merchant Bank – Rs 19.00 Lakh dt-14/1/2010
	Subsidy Sanctioned	(40%) Rs 27.06 Lakhs
7.	Subsidy released & date	Not so far
8.	Expenditure incurred	Rs. 70.46 Lakh
9.	<b>Status</b>	
	Capacity of unit	20 MT/day, 5600 MT/ Annum (Actual installed capacity of 5 Chambers-90 Tons of Banana)
	Commodity	Banana, Mango, Papaya etc.
	Equipments purchased	Already received at site.
	Condition of infrastructure	Good & is in operation
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yet to receive from SHM

- Project started functioning from July 2010
- Expenditure statement is satisfied by Chartered Accountant. Unit is in profit from starting.
- Farmers are getting good returns & they are getting about Rs 1-1.5 / kg more price.
- Labours are also benefitted because of regular employment in packing and sorting at this facility.
- Promoter is satisfied with the assistance received from SHM
- Weight loss in Banana ripening and storage is negligible.
- Promoter was advised to install humidifier in the chambers to maintain high humidity conditions for better up keep of the product.







## Visit to Satara District







**Date 28.06.2011**

S No.	Details	Remarks
1.	Name of Project	Maruti Abaji Solanke Vill. Nagthmi Tal.Satara Pack House & Protected cultivation
2.	Year of Implementation	2010-11
3.	Name of Beneficiary	Mr. Marati Aragi
4.	Location of Project	Nagthani
5.	Total Project Cost	` 4.60 lakh



6.	Amount Released & date	` 1.50 lakh
7.	Expenditure incurred	` 4.60 lakh
8.	<b>Status</b>	
	Capacity of unit	18' x 80' = 1440
	Commodity	Flowers & Banana
	Equipments purchased	200 crates/papaya, vegetables buckets, weighing machine, cutter, washing, drip
	Condition of infrastructure	Good
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Cheque
9.	<b>Observation</b>	
		Working in good condition.
		The pack house has benefitted immensely the farmer in adding value to this produce.
		Needs grading packing unit
		Very progressive farmer and respected by other farmers.

**Date 28.06.2011**



S No.	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Belakishna Dharmagi Rajapure Shahbegh wai
2.	Total land available with the beneficiary (ha)	3 Acre
3.	Crop cluster under which covered	Turmeric – 2 Acre Banana – 0.30 Acre
4.	Name & variety of crop planted	Turmeric – Saloni Banana – G. P. Tissue Culture

5.	Source of planting material	Banana – TC Kumar Bio Tech Turmeric - Self
6.	Number of planting material	Banana – 900 July 2010 Turmeric - 15 June 2011
7.	Dated of plants which survived (also indicate percentage survival)	Banana – 100% Turmeric – 100%
8.	Total amount of subsidy, assistance due to the beneficiary as `	Banana – yet to be released Turmeric – yet to be released
9.	Amount paid and date of payment	Under process
10.	Source of Irrigation Water (Bore Well/Tube well/Canel)	Bore well
11.	Whether Drip/Sprinkle System in use	Yes sprinkler
12.	If, area covered	Inter cropping - Beans, coriander The farmer has earned ` 30000 from fresh coriander.
13.	Available marketing facility for the crop	Banana Turmeric – Processing unit
14.	Other infrastructure available in the vicinity	
15.	General upkeep of the plot; Very good/good/average/poor	Very Good
16.	Any other relevant observation by the JIT	Assistance to be released in time.
17.	<b>Observation</b>	Sprinkler only of micro-irrigation scheme under process.

**Date 28.06.2011**



S No.	Details	Remarks
1.	Name & Address of Beneficiary whose field visited	Manohar Maruti Salonke Vill. Nagthani, Tal Satara
2.	Total land available with the beneficiary (ha)	1 ha
3.	Crop cluster under which covered	Banana TC G – 9
4.	Name & variety of crop planted	G – 9
5.	Source of planting material	Jain Tissue Culture, Jalgaon
6.	Number of planting material	2900
7.	Data of plants which survived (also indicate percentage survival)	02.03.2010 100%
8.	Total amount of subsidy, assistance due to the beneficiary as `	` 29000/-
9.	Amount paid and date of payment	Ist Year - ` 21841/- IInd Year - ` 7300/-
10.	Mode of payment	Cheque
11.	Source of Irrigation Water (Bore Well/Tube well/Canel)	Bore well & lift irrigation
12.	Whether Drip/Sprinkle System in use	Drip own (could be integrated) not available
13.	Whether assistance available for organic farming	Farmer using his own recycled organ.
14.	Available marketing facility for the crop	Through middle man @ 6.50 to 12/kg
15.	Other infrastructure available in the vicinity	Pack house
16.	General upkeep of the plot; Very good/good/average/poor	Very good
17.	<b>Observation</b>	Ist year production – 38 MT/Acre – 90 MT/ha
		Sold average 7.20/kg – 6.50 lakh
		Cost of cultivation 3.00 lakh
		Farmer is very innovative and has adopted the ripening of 12' x 4'/6' zig zag – 2900 plants
		Department has reduced the subsidy based on plant population.
		Need area based subsidy
		Other infrastructure facilities like grading and packing
		Farmers are growing grapes in 1 acre of poly house from (NHB). Needs skirting bag for banana.

**Date 28.06.2011**



S No.	Details	Remarks
1.	Name of Project	Krishi Mitra Bachat group SHG Shri Namdev Naka Jamdev
2.	Year of Implementation	2007-08
3.	Location of Project	Vill. Shabagh Tal Wai, Distt. Satara
4.	Total Project Cost	` 2.70 lakh
5.	Amount Released & date	` 1.40 lakh on 04.10.2008
6.	Expenditure incurred	` 2.70 lakh
7.	<b>Status</b>	Working
	Capacity of unit	1000 kg (2 Units) Dry 200 kg
	Commodity	Turmeric
	Equipments purchased	Boiler
	Condition of infrastructure	Very Good
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yes
8.	<b>Observation</b>	
		Farmers are getting 7000/qtl. The machine is given on rent to the farmers having 50 acre – 90 members. This innovation as primary processing at field level has let to reduction of fuel use by 20%.

**Date 28.06.2011**



S No.	Details	Remarks
1.	Name of Project	Rajendra Balkishna Vanarasr
2.	Year of Implementation	2007-08
3.	Name of Beneficiary	Shri Rajendra
4.	Location of Project	Gangepuri – Wai
5.	Total Project Cost	` 3.68 lakh
6.	Amount Released & date	` 1.05 lakh through cheque on 04.10.2008
7.	Expenditure incurred	` 3.68 lakh
8.	<b>Status</b>	Working in good condition
	Capacity of unit	Deep freezer 400 kl
	Commodity	Fresh fruit Juice
	Equipments purchased	Van, Deep Freezer and Juice extractor
	Condition of infrastructure	Good
	Whether NHM logo displayed	Yes
	Whether funds disbursed to agency	Yes
9.	<b>Observation</b>	
		This Component has been considered under Mobile Processing unit. The subsidy has helped to maintain the unit. The repayment of T/L 2.63 has been completed in Jan, 2011. An annual earnings of ` 40000/year.



## Visit to Kolhapur District



**Date 28.06.2011**

Sl No.	Details	Remarks
1.	Name of Project	Seema Biotech (Tissue Culture Unit)
2.	Year of Implementation	2007-08
3.	Location of Project	Tal Sande, Distt. Kohlapur
4.	Total Project Cost	` 8.00 lakh
5.	Amount Released & date	` 4.00 lakh
6.	Expenditure incurred	` 8.00 lakh
7.	<b>Status</b>	Functioning commercial production
	Name of nursery and crop for which plants are produced	Banana Tissue culture G-9, 35 lakh plants/year
	Name of crops for which seeds produced	
	Quantity produced	35 lakh plants/year 2011-12
	Quantity sold	2010-11 sold 20 lakh

	Rate	@ ` 11/plant to farmers
	Amount realized through sale	` 1.68 crore with net profit of ` 15.00 lakh
	Whether NHM logo displayed	Yes
8.	<b>Observation</b>	
		This is proprietorship firm of Mr. Chavan who started the venture in 2004. Yearly profit as per balance sheet is ` 15.00 lakh. There are 50 trained persons working on the unit. Prop. Has also availed subsidy under programme of NHM. The unit is second after jain irrigation having virus indexing facility.

**Date 29.06.2011**



S No.	Details	Remarks
1.	Name of the Project	Quality Cashew Industry The Ajra, Distt. Kohlapur
2.	Name of Beneficiaries	Shri Mahadev Laxam Pawar
3.	Constitution	Proprietorship firm
4.	Project period	Started in 2004 with cost of ` 10.00 lakh
5.	Expansion as primary processing unit	2006-07 with cost of ` 26.00 lakh
6.	Boiler	Size increase + 1 boiler
7.	Nitrogen packing machine	` 2.50 lakh
8.	Bank	Bank of Maharashtra
9.		T/L ` 6.00 lakh in 2004
		CC ` 3.00 lakh
	2006-07	` 12.00 lakh T/L
		` 12.00 lakh cc
10.	Labour	25 persons
11.	Subsidy	` 8.13 lakh in 2009-10
12.	Release	Cheque
13.	Raw Cashewnut	From farmers ` 80/kg
14.	Market	Kolapur – middleman @ 480/kg average

**Date 29.06.2011**



S No.	Details	Remarks
1.	Name of Project	Vandana Prakash Desai
2.	Year of Implementation	2006-07
3.	Location of Project	Kandewadi – Gadhirgraj, Kohlapur

4.	Total Project Cost	` 5.50 lakh
5.	Amount Released by DAC	` 4.54 lakh
6.	Expenditure incurred	` 5.50 lakh
7.	<b>Status</b>	
	Dimension (L X B X W)	44 x 44 x 5.4 mts.
	Capacity	10000 cubic MT/
	Command area	10 ha, 37 Acre
	Whether linked with new plantation or old plantation	New plantation
	Whether funds disbursed	Yes through cheque
8.	<b>Observation</b>	
		The community tank has helped new plantation of around 60 farmers. Six farmers. The area is drought prone and there is heavy demand for more tanks. 19 community tanks have been sanctioned under NHM in this Tehsil. Plastic lining is not good quality. After 3 years there should be provider for giving new plastic.

**Date 29.06.2011**



S No.	Details	Remarks
1.	Name & address of Beneficiary whose filed visited	Naik Laxman Jaappe – 1:40 ha Vadar Kamalesh Bhine – 1.10 ha
2.	Total land available with the beneficiary (ha)	4 acre with each farmer
3.	Crop cluster under which covered	Cashew
4.	Name & variety of crop planted	Venegular – 4 and 7
5.	Source of planting material	Research centre, SAU, Dapohi
6.	Number of planting material	1 Acer – 80 plants

7.	Date of plants which survived (also indicate percentage survival)	20% mortality
8.	Total amount of subsidy assistance due to the beneficiary as ( ` )	0.41523
9.	Amount paid and date of payment	0.41523 disbursed
10.	Mode of payment	Cheque
11.	Source of irrigation water (Bore well/Tube well/Canel)	Lift irrigation
12.	Whether Drip/Sprinkle System in use	Drip under process
13.	Available marketing facility for the crop	Without processing, wholenuts sold in market ` 80/kg
14.	General upkeep of the plot; Very good/good/average/poor.	Good
		The plantation started producing during 2009-10 and 1 – 1 ½ kg per tree at present which will go up to 20 kg/tree.



## Visit to Sindhudurg

**Date 29.06.2011**



S No.	Details	Remarks
1.	Name of the Project	Shri Bhodagi Raja Ram Gawdey, Vill. Sangli, Tal. Sawantwadi, Distt Sindhudurg
2.	Year	2010-11
3.	Variety	G - 9.
4.	Type of planting material	Tissue Culture
5.	Planting Material	Shri Biotech
6.	Area	1 ha
7.	Plants	3000
8.	Spacing	6' x 5'
9.	Mortality	10%
10.	Total sanction subsidy	` 41602
11.	Drip Irrigation	Jain Irrigation at the cost of ` 85000
12.	Release	` 31800 through cheque
13.	Expected yield	12 MT/ha @ 40Kg/Tree

## **OBSERVATIONS and RECOMMENDATIONS**

1. Area expansion under NHM is being done in isolation. State needs to focus on potential fruit crops like mango, banana pomegranate, citrus and flowers adopting cluster approach as per the potential of the area. The clusters will facilitate creation of PHM & market infrastructure for each crop in a systematic manner.
2. State has large plantation of cashew (Sindhudurg - Konkan) and citrus (vidharbha - region). The plantation are old and senile. State needs to make efforts for rejuvenation of at least 3000 ha each of citrus and cashew plantation per year under NHM.
3. State has large number of nurseries in public and private sector. Accreditation of nurseries in consultation with NHB needs to be given priority for supply of quality planting material.
4. State has potential for setting up PHM infrastructure for maintaining end to end approach for perishable fruit and vegetable crops. Efforts are required to mobilize private investment in the sector. State may hold interface meetings at district levels with promoters, banks and consultants to popularize the credit linked component of NHM scheme.
5. State may also arrange workshops/seminars for sensitization of group of farmers/ SHG/ cooperatives for setting up fruits ripening units at strategic location/markets in the cities/towns.
6. State may also encourage cold storage owners to adopt the technical standards issued by DAC even in the existing cold storage by modifying/upgrading the refrigeration plant & machinery to save electric consumption.
7. State has large number of pack houses and mainly utilized for one or two crops available in the area of operation and there is a need to use these facilities optimally.
8. Tissue culture labs setup in private sector has been working well & needs to be promoted.
9. The system of production and supply of quality planting material, particularly for fruits like Mango and Citrus (Sweet Orange) Papaya, Banana, etc. needs to be streamlined. In the districts visited, farmers were making their own arrangements for getting planting material from far off destinations.
10. Vegetable seeds need to be produced and promoted.
11. Participation of SC/ST farmers in the area expansion programme, on a cluster basis, is a welcome sign. Such farmer groups need to be encouraged to set up Post Harvest Management facilities like Pack House, besides facilitating tie up with markets.
12. More focus needs to be given on HRD of farmer groups. Many farmers are taking up Horticulture venture for the first time.
13. Creation of community tanks should be designed to capture rain water. Most of the community tanks have been integrated with micro irrigation, which is a welcome sign.

14. Farmers availing drip irrigation need to be trained on the use and maintenance of the system.
15. The process of setting up of Terminal Market Complexes (TMC) at Thane, Nasik and Nagpur needs to be expedited at the State level. More markets need to be established.
16. Scientific infrastructure being set up in the public sector, such as bio-control labs, leaf tissue analysis labs, plant health clinics in providing advice to the farmers in scientific management of the crops. It need to be ensured that such infrastructure is utilized to its fullest capacity for which necessary trained manpower should be in place and recurring cost met for.
17. Assistance sanctioned under NHM to credit linked projects is to be released by SHM immediately to lending banks as per laid down procedures. Timely release of subsidy will ensure that interest burden on term loan is reduced and projects are not declared NPA by the lending banks.
18. Use of ICT for programme monitoring of National Horticulture Mission activities at the Districts level needs to be activated. None of the districts are presently reporting progress on the National Horticulture Mission website.
19. National Horticulture Mission logo and boards need to be displayed wherever assistance has been provided.
20. The staff at the district level involved in National Horticulture Mission activities needs to be strengthened.
21. There is a need to publicize the National Horticulture Mission programmes through print and electronic media.





