Report of Joint Inspection Team
On its Visit to Gujarat
October, 2010
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Report of the Joint Inspection Team (JIT) of National Horticulture Mission on its inspection visit to Gujarat during October, 2010

Introduction

The Joint Inspection Team (JIT) of National Horticulture Mission (NHM) comprising of the following members visited Gujarat State during 3rd, October to 7th October, 2010 to review the progress of implementation of the NHM programme in the State:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. B. S. Negi</td>
<td>Deputy Commissioner (NHM), Ministry of Agriculture, New Delhi</td>
</tr>
<tr>
<td>Dr. L.R. Verma</td>
<td>Professor &amp; Head, Department of Horticulture, SK Agriculture University, Banaskantha</td>
</tr>
<tr>
<td>Dr Tamil Selvan,</td>
<td>Director, Arecanut and Spices Development, Calicut</td>
</tr>
<tr>
<td>Dr R. G Patil</td>
<td>Professor and Principal Investigator, Precision Farming Development Centre(PFDC), Gujarat Agriculture University, Navsari</td>
</tr>
<tr>
<td>Shri S. S Ganvit</td>
<td>Joint Director (Horticulture), Vadodara, Gujarat</td>
</tr>
</tbody>
</table>

The JIT visited Navsari, Valsad and Surat districts of south Gujarat along with the field level officers of concerned districts. Before commencement of the visit, preliminary discussions were held at Navsari for briefing the members about the objective of the visit and the methodology to be adopted. A set of Proforma developed by the Department of Agriculture and Cooperation (DAC) for the use of JIT was provided to the SHM representative for providing required information.

Horticulture in Gujarat

State has achieved considerable growth rate in horticulture during last five years because of serious efforts made by the State Govt. The area & production of horticulture crop was 5.89 lakh ha (5 % of total cropped area) & 59.49 lakh tons in 1998-1999 which increased upto 13.12 lakh ha. & 138.04 lakh tons respectively in 2008-09. State has strong cooperative credit & marketing structure, along with 213 cold storages having 9.50 lakh MT storage capacities, 42 fruit & vegetable co-operative marketing societies and 197 Agriculture Produce Market Committees (APMCs) are dealing with selling & buying of horticulture produce in the State.

Agriculture Export Zones (AEZs) for dehydrated onion and for fruits & vegetables have been established, which will be the back bone to boost horticultural development in the State. Gujarat is having ample potential to export various horticultural produce. The main produces are fresh fruits which includes Mangoes (Kesar and Alphonso), Sapota, Aonla and Dates (khalal). The vegetables viz. okra, beans, bitter gourd, onion fresh as well as flacks and powder, garlic powder and gourds. The spices viz. cumin, fennel and garlic also have potential for export.

In floriculture, major flowers grown in the State are Roses (Deshi & Hybrid), Lily, Marigold, Jasmine & Tuberose. Flowers like carnation, gerbera & rose are also cultivated by using Hi-tech Green house technology in some of the districts. Isabgol Aloe vera, Senna, Gugal, Safed musali, Ashvagandha, Kadu-kariyatu, Kaucha, and kalmegh etc. are also being cultivated in the different parts of the State. But the assured market is the major constraints for the development of these crops. However, Isabgol has now found the way to the world market.
Dehydrated vegetables, canned vegetables, Mango Pulp, Juices, Pickles - Chutney (Sauce) & Ketchup are the important processed products of the State. Onion dehydration industry of the State is biggest in the country & it comprises 80% of total onion dehydration units, which process nearly one lakh ton onion and one lakh ton fruits and vegetables annually. Nearly half of the produce is being exported. Approximately 0.10 lakh ton of Isabgol husk is processed and 0.06 lakh ton of husk is exported to various countries. Mango, Banana, Guava, Sapota, Papaya, Potato, Onion, Garlic, Cumin, Fennel, & Isabgol are the focused crops for the value addition.

Grapes, cashew, medicinal & aromatic crops like Aloe Vera, Palmarosa are emerging as a new potential crops in suitable areas of the State. Investment in Greenhouses, floriculture & medicinal plant projects, tissue culture units, fruit & vegetable processing units has been initiated in the State which show shining future of horticulture sector in the State. Details of Area, production, value shown of State and its leading production of Horticulture crops in the State is given in the Table I to Table 4.

**Table – 1: Details of Area, Production & Value of Horticulture Crops during X Plan Period.**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Year</th>
<th>Area</th>
<th>Production</th>
<th>Value</th>
<th>Value Growth Rate %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2001-02</td>
<td>6.91</td>
<td>60.98</td>
<td>3368</td>
<td>--</td>
</tr>
<tr>
<td>2</td>
<td>2002-03</td>
<td>7.54</td>
<td>67.16</td>
<td>3577</td>
<td>6.20</td>
</tr>
<tr>
<td>3</td>
<td>2003-04</td>
<td>9.47</td>
<td>85.44</td>
<td>4840</td>
<td>35.30</td>
</tr>
<tr>
<td>4</td>
<td>2004-05</td>
<td>9.69</td>
<td>93.48</td>
<td>5376</td>
<td>11.07</td>
</tr>
<tr>
<td>5</td>
<td>2005-06</td>
<td>11.03</td>
<td>115.46</td>
<td>6485</td>
<td>20.62</td>
</tr>
<tr>
<td>6</td>
<td>2006-07</td>
<td>11.24</td>
<td>121.04</td>
<td>7737</td>
<td>19.30</td>
</tr>
</tbody>
</table>

Cumulative Growth Rate (CGR) %

|       | 10.5 | 14.4 | 15.6 | 18.50 Avg. |

**Table – 2: Details of Area, Production & Value of Horticulture Crops during XI Plan period.**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Year</th>
<th>Area</th>
<th>Production</th>
<th>Value</th>
<th>Value Growth Rate %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2007-08</td>
<td>12.46</td>
<td>144.74</td>
<td>9871</td>
<td>27.58</td>
</tr>
<tr>
<td>2</td>
<td>2008-09</td>
<td>13.12</td>
<td>138.04</td>
<td>10500</td>
<td>7.67</td>
</tr>
</tbody>
</table>

**Table – 3: Share of Gujarat’s State in All India production (2008-09)**

<table>
<thead>
<tr>
<th>Crop</th>
<th>Production (lakh MT)</th>
<th>Share in %</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gujarat</td>
<td>India</td>
<td></td>
</tr>
<tr>
<td>Sapota</td>
<td>2.55</td>
<td>13.08</td>
<td>19.5</td>
</tr>
<tr>
<td>Onion</td>
<td>14.1</td>
<td>135.65</td>
<td>10.4</td>
</tr>
<tr>
<td>Lime</td>
<td>3.5</td>
<td>25.72</td>
<td>14</td>
</tr>
<tr>
<td>Papaya</td>
<td>7.22</td>
<td>36.38</td>
<td>20</td>
</tr>
<tr>
<td>Banana</td>
<td>35.72</td>
<td>262.17</td>
<td>13.6</td>
</tr>
</tbody>
</table>
Gujarat is enjoying leading position in some of the fruit and vegetable crops in all India productivity rank.

**Table- 4: Leading position of Gujarat in major Fruits & Vegetable**

<table>
<thead>
<tr>
<th>Crop</th>
<th>Productivity (t / ha)</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gujarat</td>
<td>India</td>
</tr>
<tr>
<td>Onion</td>
<td>24.5</td>
<td>16.3</td>
</tr>
<tr>
<td>Potato</td>
<td>25.4</td>
<td>18.8</td>
</tr>
<tr>
<td>Banana</td>
<td>58.7</td>
<td>37.0</td>
</tr>
<tr>
<td>Pomegranate</td>
<td>9.8</td>
<td>7.4</td>
</tr>
<tr>
<td>Tomato</td>
<td>24.4</td>
<td>18.6</td>
</tr>
<tr>
<td>Guava</td>
<td>15.4</td>
<td>11.1</td>
</tr>
<tr>
<td>Lime</td>
<td>9.9</td>
<td>8.1</td>
</tr>
<tr>
<td>Papaya</td>
<td>51.1</td>
<td>37.1</td>
</tr>
<tr>
<td>Sapota</td>
<td>9.6</td>
<td>8.4</td>
</tr>
</tbody>
</table>

(Source: NHB Data Base-2009)

**NHM Intervention in Gujarat**

The National Horticulture Mission (NHM) was launched in the State during the year 2005-06 in 10 districts. 5 more districts were added in 2006-07 and 2007-08. At present, NHM is being implemented in 15 potential districts covering 10 important crops of the State viz Mango, Sapota, Aonla, Banana, Papaya, Citrus (Lime), Pomegranate, Date palm, Spices, Aromatic Plants and Flowers.

The year-wise details of funds allocated as per Annual Action Plan, funds released and expenditure incurred during 2005-06 to 2009-10 are given in **Table-5**.

**Table- 5: Details of funds provided to SHM, Gujarat**

<table>
<thead>
<tr>
<th>Year</th>
<th>Sanctioned AAP (GOI)</th>
<th>Release GOI</th>
<th>Exp.(GOI share)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005-06</td>
<td>68.44</td>
<td>32.39</td>
<td>9.44</td>
</tr>
<tr>
<td>2006-07</td>
<td>87.96</td>
<td>25.77</td>
<td>27.85</td>
</tr>
<tr>
<td>2007-08</td>
<td>69.18</td>
<td>19.54</td>
<td>36.38</td>
</tr>
<tr>
<td>2008-09</td>
<td>85.00</td>
<td>35.32</td>
<td>35.58</td>
</tr>
<tr>
<td>2009-10</td>
<td>63.75</td>
<td>25.21</td>
<td>34.22</td>
</tr>
<tr>
<td>Total</td>
<td>437.23</td>
<td>138.23</td>
<td>143.47</td>
</tr>
</tbody>
</table>

Out of Rs. 138.23 crore released by the DAC, the SHM has incurred an expenditure of Rs. 143.47 crore so far. The component wise details of expenditure incurred during 2005-06 to 2009-10 are given in **Table-6**.
Table-6: Component wise details of progress under NHM in Gujarat during 2005-06 to 2009-10.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Component</th>
<th>Physical (Ha/No.)</th>
<th>Financial (Rs. in Lakh)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Target</td>
<td>Achmt</td>
</tr>
<tr>
<td>1</td>
<td>Nursery</td>
<td>44</td>
<td>23</td>
</tr>
<tr>
<td>2</td>
<td>Establishment of New Garden</td>
<td>163307</td>
<td>106378</td>
</tr>
<tr>
<td>3</td>
<td>Rejuvenation</td>
<td>4034</td>
<td>605.10</td>
</tr>
<tr>
<td>4</td>
<td>Community Tanks</td>
<td></td>
<td>445</td>
</tr>
<tr>
<td>5</td>
<td>Protected Cultivation</td>
<td>857</td>
<td>629.63</td>
</tr>
<tr>
<td>6</td>
<td>Promotion of INM/IPM</td>
<td>18113</td>
<td>20753</td>
</tr>
<tr>
<td>7</td>
<td>IPM infrastructure</td>
<td>11</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>Organic Farming</td>
<td>728</td>
<td>1001.16</td>
</tr>
<tr>
<td>9</td>
<td>Pollination Support to Bee Keeping</td>
<td>1750</td>
<td>520</td>
</tr>
<tr>
<td>10</td>
<td>Technology Dissemination through FLD (No)</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>Post Harvest Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(a) pack houses</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>(b) cold storages</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>(c) MA storage</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>(d) ref van</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>(e) mobile/primary processing units</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>(f) ripening chambers</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Sub total</strong></td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Planting Material Scenario**

The SHM have indicated that they have sufficient planting material for establishment new gardens during 2010-11. The total requirement of planting material required for establishing new gardens and gap filling is being produced from the nurseries under the public sector and private sector and there is no shortage. There are 29 no of fruit nurseries in public sector and 289 nos. of nurseries in private sector in Gujarat State. Sufficient planting material is available in the State. Voluntarily certification of fruits grafts scheme is being implemented in
the State by the Department of Horticulture. No central purchase system of planting material is undertaken by the SHM in the State. Farmers are purchasing from the surrounding and near by fruit nurseries at district level for establishment of new gardens. The District Mission Committee needs to ensure that necessary quality of the nursery, supply of planting material checks are undertaken by the experts, so that further get the quality material. The details of availability of planting material are given in Table-7.

Table – 7: Requirement and Availability of planting material for fruit crops in Gujarat.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Area Propose in 2010-11</th>
<th>Requirement planting material</th>
<th>Availability of planting material during 2010-11</th>
<th>Excess/Deficit lakh no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perennial Fruits</td>
<td>3750</td>
<td>Grafts</td>
<td>11.00 lakh</td>
<td>Grafts 33.87 lakh</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Plants</td>
<td>5.00 lakh</td>
<td>Plants 50.36 lakh</td>
</tr>
<tr>
<td>Non Perennial Fruits (Banana and Papaya)</td>
<td>3350</td>
<td>T.C. Plants</td>
<td>71.00 lakh (Banana) 25.00 lakh (Papaya)</td>
<td>T.C. Plants 250.00 lakh</td>
</tr>
</tbody>
</table>

Area Expansion

The year wise detail of physical and financial progress under establishment of new gardens is given in Table-8.

Table-8: Coverage under New Gardens

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Physical</td>
<td>Financial</td>
</tr>
<tr>
<td>2005-06</td>
<td>24383</td>
<td>2718.35</td>
</tr>
<tr>
<td>2006-07</td>
<td>14961</td>
<td>1795.41</td>
</tr>
<tr>
<td>2007-08</td>
<td>11616</td>
<td>1011.12</td>
</tr>
<tr>
<td>2008-09</td>
<td>19976</td>
<td>1792.41</td>
</tr>
<tr>
<td>2009-10</td>
<td>22700</td>
<td>1784.50</td>
</tr>
<tr>
<td>2010-11</td>
<td>11328</td>
<td>1261.98</td>
</tr>
<tr>
<td>Total</td>
<td>104964</td>
<td>10363.77</td>
</tr>
</tbody>
</table>

The programme for establishment of new gardens is being taken up in identified clusters, for which assistance is being provided to the farmers. As per NHM norms, the assistance for area expansion was provided @75% of cost subject to a maximum of Rs. 22500/- per ha for perennial crops and @50% of cost, subject to maximum of Rs. 15000/- per ha in the case of non perennial crops, which was disbursed in three installments in the ratio of 50:20:30 in the first, second and third year respectively depending upon the desired survival percentage. From 2010-11,
the cost norms and pattern of assistance has been revised and assistance is being provided ranging from 50% to 75% of cost depending upon the crop (cost intensive and normal spacing).

**Rejuvenation**

The year wise detail of physical and financial progress under rejuvenation of old and senile orchards is given in **Table-9**.

**Table-9: Rejuvenation programme undertaken in the State (area in ha, Rs. in lakh)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Physical (Hectare)</td>
<td>Financial (Rs. in Lakhs)</td>
</tr>
<tr>
<td>2005-06</td>
<td>500</td>
<td>75.00</td>
</tr>
<tr>
<td>2006-07</td>
<td>1550</td>
<td>232.50</td>
</tr>
<tr>
<td>2007-08</td>
<td>1334</td>
<td>200.10</td>
</tr>
<tr>
<td>2008-09</td>
<td>500</td>
<td>75.00</td>
</tr>
<tr>
<td>2009-10</td>
<td>150</td>
<td>22.50</td>
</tr>
<tr>
<td>2010-11</td>
<td>2000</td>
<td>300.00</td>
</tr>
<tr>
<td>(Up to Aug-2010)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Community Tanks**

Construction of community tanks is a major attraction among the farmers of Gujarat. Since the State has been experiencing frequent spell of droughts, the community tanks come in handy for providing supplemental irrigation. As per the NHM norms, assistance @Rs. 10.00 lakh is available for constructing a community tank, which has the capacity to provide irrigation to 10 ha of land.

As many as 550 community tanks have been constructed in the State under NHM during last 5 years. The Micro Irrigation programme is compulsorily linked with the tanks.

**Post Harvest Management**

**Pack Houses**

The State is lacking in the construction of Pack houses. The available assistance under NHM is 50% of the cost subject to a maximum of Rs. 1.5 lakh per unit. So far, only two pack houses have been constructed under NHM, out of which one is integrated pack house with ripening chamber. SHM needs to play a pro-active role in mobilizing the farmers for this important PHM component.
**Cold Storages**

Though not much afford has been made for construction of cold storages under NHM, however, so far, under NHM, 32 cold storages and one modified atmosphere storage unit has been sanctioned in the State during 2005-06 to 2009-10, which have been completed.

As per the information provided by the SHM, at present 213 cold storages with 9.50 MT storages capacity are available in the State. However, much more needs to be done in this area to reduce post harvest losses.

**Other PHM projects**

During last 5 years, project for only one ref. van has been sanctioned to the State. Besides, 4 primary processing units for horticulture produce have been sanctioned to the State, which have been set up. One more primary processing unit has been sanctioned in 2010-11. During 2009-10, 4 Ripening chambers were sanctioned and have been completed. During 2010-11, 5 more ripening chambers have been sanctioned. SHM needs to play a pro active role in mobilizing the entrepreneur for setting up of more such units.

**Market Infrastructure**

Marketing is one of the important components in the NHM scheme. However, so far, only one rural market has been sanctioned in the private sector for the State. The proposal for one wholesale market at Jamnagar is in the pipeline. This project has been approved in principle by the Executive Committee (EC) of NHM. However, required Bank loan has not been ensured for the project. Only one Rural market was sanctioned during 2007-08 in private sector and completed. As per the information provided by the SHM, at present 42 Fruits and Vegetable Cooperative Marketing Society and 197 Agriculture Produce Market Committees exists in the State, which are dealing with the selling and buying in the horticulture produce. However, SHM needs to ensure that the proposed horticulture clusters are linked with the existing infrastructure for PHM and marketing including AEZ, Food Parks and similar facilities set up by the private sector.

Details of various project activities taken up under NHM during 2005-06 to 2009-10 are given at **Annexure.**
FIELD VISIT

NAVSARI DISTRICT

Navsari District is well known for Horticulture Fruit crops. Main fruits are mango, sapota and banana. Besides, large area is under vegetables and floriculture. Navsari is endowed with fertile land, well developed irrigation facility, good rain, well co-operative infrastructure etc. Farmers of the districts are very progressive. Presence of Agriculture University has an added advantage to the farmers. The Navsari district was included under NHM during 2005-06.

A total cultivable land is 1, 46,966 hectare, out of which 63,099 hectare area is under irrigation. Main source of irrigation is through canals, and tube wells.

Horticulture area since last three years in the district is here under:

DETAILS OF NAVSARI DISTRICT “HORTICULTURE SCENARIO”

<table>
<thead>
<tr>
<th>SR. NO.</th>
<th>DETAILS OF DISTRICT</th>
<th>AREA/NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Total Cultivated Area in Hectare</td>
<td>146966</td>
</tr>
<tr>
<td>2.</td>
<td>Irrigation Area covered in Hectare</td>
<td>63099</td>
</tr>
<tr>
<td>3.</td>
<td>Total Land holding Families</td>
<td>94777</td>
</tr>
<tr>
<td>(a)</td>
<td>Marginal Farmers (No.)</td>
<td>54600</td>
</tr>
<tr>
<td>(b)</td>
<td>Small Farmers (No.)</td>
<td>18880</td>
</tr>
<tr>
<td>(c)</td>
<td>Scheduled Tribe (%)</td>
<td>32</td>
</tr>
<tr>
<td>(d)</td>
<td>Scheduled cast (%)</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>Main Agriculture crops</td>
<td>Paddy, Sugarcane</td>
</tr>
<tr>
<td>5.</td>
<td>Horticulture crops</td>
<td>Year 2009-10</td>
</tr>
<tr>
<td>A.</td>
<td>Fruits crops</td>
<td>Hectare</td>
</tr>
<tr>
<td>1.</td>
<td>Mango (ha)</td>
<td>19060</td>
</tr>
<tr>
<td>2.</td>
<td>Sapota (ha)</td>
<td>5880</td>
</tr>
<tr>
<td>3.</td>
<td>Banana (ha)</td>
<td>450</td>
</tr>
<tr>
<td>4.</td>
<td>Coconut (ha)</td>
<td>350</td>
</tr>
<tr>
<td>5.</td>
<td>Papaya &amp; others fruits crops (ha)</td>
<td>205</td>
</tr>
<tr>
<td>B.</td>
<td>Vegetables (Kharif, Rabi, Summer) (ha)</td>
<td>9661</td>
</tr>
<tr>
<td>C.</td>
<td>Spices (Chillies, Ginger, Turmeric) (ha)</td>
<td>320</td>
</tr>
<tr>
<td>D.</td>
<td>Floriculture crops (Rose, Marigold, Spider Lilly) (ha)</td>
<td>1309</td>
</tr>
<tr>
<td>E.</td>
<td>Aromatic &amp; Medicinal Crops (ha)</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Total Horticulture Crops in Hectare</td>
<td>37,345</td>
</tr>
</tbody>
</table>
On 04.10.2010, team first visited State Agricultural University, Navsari. Following projects were visited by the Team:

**Navsari Agriculture University**

1. **Model Nursery**
   
i. **Name and address of Beneficiary**
   
   Regional Horticultural Research Station,  
   ASPEE College of Horticulture and Forestry,  
   Navsari Agricultural University, Navsari.
   
   ii. **Year of implementation**
   
   2005-06
   
   iii. **Components.**
   
   Green house, net house, mist chamber, mother block,
   
   iv. **Irrigation Facility**
   
   Micro irrigation (Drip, Sprinkler)
   
   v. **Total amount of subsidy assistance due to the beneficiary as**
   
   18.00 lakh

2. **Model Nursery (ornamental) Floriculture and Landscaping**

   ASPEE College of Horticulture and Forestry,  
   NAU, Navsari
2006-07

ii. **Components.**
Green house, Net house, Shed net house for Heliconia, Tunnels, Poly-house, Propagation unit, Shades for succulent plants, mist chamber, mother block

iii. **Irrigation Facility**
Micro irrigation (Drip, Sprinkler)

iv. **Total amount of subsidy assistance due to the beneficiary as**
18.00 lakh

3. **Model Nursery for Medicinal and Aromatic Plants**
ASPEE College of Horticulture and Forestry,

   i. **Year of implementation**
   2008-09

   ii. **Components.**
   Green house, net house, mist chamber, mother block,

   iii. **Irrigation Facility**
   Micro irrigation (Drip, Sprinkler)

   iv. **Total amount of subsidy assistance due to the beneficiary as**
   18.00 lakh

4. **Name and address of Beneficiary whose field visited:**
Balvantbhai Bhikhabhai Patel  
Sukhai Ta. Chikli,  
Navsari.

i. **Crop Cluster under which covered**  
Mango

ii. **Total land available with the beneficiary (ha.)**  
2:35:40 ha

iii. **Name and Variety of crop planted**  
Mango, Kesar

iv. **Source of planting material**  
Grafted plants from approved Nursery

v. **Number of plants planted and spacing**  
190 (10 m x10 m)

vi. **Date of planting**  
2008-09

vii. **Number of plants which survived (also indicate percentage survival).**  
175 (92 %)

viii. **Total amount of subsidy assistance due to the beneficiary as**  
Rs 6725/- (First year Rs. 4819, Second year Rs.1906)

ix. **Amount of paid and date of payment**  
Rs 4819 (Feb’ 2009) Rs. 1906 (Sept’09)

x. **Mode of payment**  
Cheque

xi. **Source of irrigation water (Bore well/Tube well/ Canal)**  
Bore well

xii. **Whether Drip/Sprinkler system in use.**  
Drip

xiii. **Other inputs provided**  
No

xiv. **Whether assistance availed for organic farming.**  
No

xv. **If, so area covered.**  
N.A.

xvi. **Assistance availed.**  
nil

xvii. **Available marketing facility for the crop.**  
Easily Marketable at Local Market

xviii. **Other infrastructure available in the vicinity.**
Co-operative Society, local market, ripening chamber

xix. General upkeep of the plot:
   Very good

xx. Any other relevant observation by the JIT

5. Name and address of Beneficiary whose field visited:
   Amrutbhai Bhikhabhai Patel
   Sukhai Ta. Chikli,
   Navsari.
   
   i. Total land available with the beneficiary (ha.)
      3.15 ha
   ii. Crop Cluster under which covered
      Mango.
   
   iii. Name and Variety of crop planted
      Mango Kesar variety.
   iv. Source of planting material
      Grafted plants from reputed approved nursery
   
   v. Number of plants planted and spacing
      211 (10 m x 10 m)
   vi. Date of planting.
      July 2008
   
   vii. Number of plants which survived (also indicate percentage survival).
      202 (95 %)
   
   viii. Total amount of subsidy assistance due to the beneficiary as (Rs.)
      Rs 9303
   
   ix. Amount of paid and date of payment
      First installment:  Rs 6647 Feb- 2009,
Second installment: Rs. 2656 Sep-2009

x. Mode of payment
   Cheque

xi. Source of irrigation water (Bore well/Tube well/ Canal)
   Bore well

xii. Whether Drip/Sprinkler system in use.
    Drip

xiii. Other inputs provided
    No

xiv. Whether assistance availed for organic farming.
    No

xv. If, so area covered.
    N.A.

xvi. Assistance availed.
    nil

xvii. Available marketing facility for the crop.
    Local Market available

xviii. Other infrastructure available in the vicinity.
    Ripening Chamber, Co-operative Societies

xix. General upkeep of the plot:
    Very good

xx. Any other relevant observation by the JIT

6. Name and address of Beneficiary whose field visited:
   Chhotubhai Kanjibhai Patel
   Sukhai Ta. Chikli,
   Navsari.

   i. Total land available with the beneficiary (ha.)
      3:64:07 ha

   ii. Crop Cluster under which covered
       Mango.

   iii. Name and Variety of crop planted
        Mango Kesar.

   iv. Source of planting material
       Grafted plants from reputed nursery

   v. Number of plants planted and spacing
       523 (10 m x 10 m)

   vi. Date of planting.
August 2008

vii. Number of plants which survived (also indicate percentage survival).  498 (95 %)

viii. Total amount of subsidy assistance due to the beneficiary as (Rs.)  Rs 13609/-

ix. Amount of paid and date of payment
   First installment :  Rs 9734 Feb- 2009,
   Second installment:  Rs. 3875 Sep-2009

x. Mode of payment
   Cheque

xi. Source of irrigation water (Bore well/Tube well/ Canal)
   Bore well

xii. Whether Drip/Sprinkler system in use.
   No

xiii. Other inputs provided
   No

xiv. Whether assistance availed for organic farming.
   No

xv. If, so area covered.
   N.A.

xvi. Assistance availed.
   nil

xvii. Available marketing facility for the crop.
   Local Market available

xviii. Other infrastructure available in the vicinity.
   Ripening Chamber, Co-operative Societies

xix. General upkeep of the plot:
   Very good.

xx. Any other relevant observation by the JIT

7. Name and address of Beneficiary whose field visited:
   Thakorbhia Sukhabhai Patel
   Sukhai Ta. Chikli,
   Navsari.

   i. Total land available with the beneficiary (ha.)
      2:90:52  ha

   ii. Crop Cluster under which covered
      Mango.
iii. Name and Variety of crop planted
   Mango, Alphanso.

iv. Source of planting material
   Grafted plants from reputed nursery

v. Number of plants planted and spacing
   640 (10 m x 10 m)

vi. Date of planting.
   July, 2008

vii. Number of plants which survived (also indicate percentage survival).
    615 (96 %)

viii. Total amount of subsidy assistance due to the beneficiary as (Rs.)
     Rs 17560/-

ix. Amount of paid and date of payment
    First installment : Rs 12560 Feb- 2009,
    Second installment: Rs. 5000 Sep-2009
    Total : Rs. 17560/-

tax. Mode of payment
    Cheque

xi. Source of irrigation water (Bore well/Tube well/ Canal)
    Bore well

txii. Whether Drip/Sprinkler system in use.
    No

txiii. Other inputs provided
    No

taxiv. Whether assistance availed for organic farming.
    No

taxv. If, so area covered.
    N.A.

taxvi. Assistance availed.
    nil

taxvii. Available marketing facility for the crop.
    Local

taxviii. Other infrastructure available in the vicinity.
    --

taxix. General upkeep of the plot:
    Very Good
8. Name and address of Beneficiary whose field visited:

   Jhaverbhai Kalabhai Patel
   Gandevi Ta. Gandevi,
   Navsari.

i. Total land available with the beneficiary (ha.)
   5:71:62 ha

ii. Crop Cluster under which covered
   Gerbera in 1008 Sqm area

iii. Name and Variety of crop planted
   Gerbera in Green house

iv. Source of planting material
   Tissue culture from K. F. Biotech

v. Number of plants planted and spacing
   6683

vi. Date of planting.
   September, 2010

vii. Number of plants which survived (also indicate percentage survival).
   95% (Replanting done)

viii. Total amount of subsidy assistance due to the beneficiary as (Rs.)
     Rs 467500/-

ix. Amount of paid and date of payment
    Rs 467500/- Oct, 2010

x. Mode of payment
   Cheque

xi. Source of irrigation water (Bore well/Tube well/ Canal)
Bore well

xii. Whether Drip/Sprinkler system in use.
   Drip irrigation

xiii. Other inputs provided
   No

xiv. Whether assistance availed for organic farming.
   No
    xv. If, so area covered. N.A.

xvi. Assistance availed.
   nil

xvii. Available marketing facility for the crop.
   Local market

xviii. Other infrastructure available in the vicinity.

xix. General upkeep of the plot:
   Very good

xx. Any other relevant observation by the JIT

   i. Name and address of Beneficiary whose field visited:
      Samirbhai Anilbhai Vashi
      Ambeti Ta. Gandevi, Navsari
ii. Year of implementation
2006-07

iii. Components.
Green house, net house, mist chamber, mother block

iv. Irrigation Facility
Micro irrigation (Drip, Sprinkler)

v. Total Project Cost:
Rs. 14.30 lakh

vi. Total amount of subsidy assistance due to the beneficiary as
Rs 7.70 lakh
First installment : Rs 385000,
Second installment: Rs. 385000

vi. Name and Variety of crop planted
10. Processing Unit Funded by NHB

   i. **Name & Location:**
      Patson Foods (India) Pvt. Ltd. supported by NHB
      Sisodra, Navsari.

   ii. **Project Cost / Amount Released by DAC / Expenditure incurred**
      Project Cost: Rs. 265 Lakh
      Amount Released by NHB: Rs. 25.00 Lakh
      (First installment 2006 & second installment in 2008)

   iii. **Commodity**
      Fruit pulp, fruit slice in sugar syrup, pickles, chutneys, canned vegetables, tomato products, Pastes, sauces, jams and jellies.

   iv. **Condition of infrastructure**
      Very Good

   v. **Whether NHB Logo displayed** - Yes
      **Whether funds disbursed to Agency** - Yes

11. Processing Unit Funded by NHM

   i. **Name & Location:**
      Name: Ajitaben Sanjaybhai Nayak,
      Gandevi Ta. Gandevi
      District: Navsari

   ii. **Project Cost / Amount Released by DAC / Expenditure incurred**
      Project Cost: Rs. 50.36 Lakh (2007-08)
      Amount Released by DAC: Rs. 7.99 Lakh

   iii. **Capacity of unit**
      10 tonnes/day

   iv. **Commodity**
Frozen Products, Mango pulp, Guava pulp, Jamun pulp, etc.

v. **Condition of infrastructure**
   Very Good

vi. **Whether NHM Logo displayed** - Yes
   **Whether funds disbursed to Agency** - Yes

12. **Ripening Chamber**
   
i. **Name & Location** :
   Name: Kanayyalal Pokardas Hirani, APMC, Viraval,
   District: Navsari

   ![Image of ripening chamber]

   ii. **Project Cost / Amount Released by DAC/ Expenditure incurred**

   iii. **Project Cost** : Rs. 78.22 Lakh (2010-11)

   iv. **Amount Released by DAC** : Rs. 23.06 Lakh (under process)

   v. **Capacity of unit** : 90 ton

   vi. **Commodity** : Banana

   vii. **Condition of infrastructure** : Very good

   viii. **Whether NHM Logo displayed** : Yes

   ix. **Whether funds disbursed to Agency** : Not yet

13. **Grading and Collection Centre**
   
i. **Name & Location** :
   Name: Kharel Vibhag Vivida Karyakari Sahkari Mandali ltd, Kharel, Ta. Gandevi, District: Navsari
ii. **Project Cost / Amount Released by DAC/ Expenditure incurred**

iii. **Project Cost** : Rs. 19.37 Lakh (2010-11)

iv. **Amount Released by DAC** : Rs. 8.25 Lakh (under process)

v. **Capacity of unit** : 10 tonnes/hr

vi. **Commodity** : Chiku (sapota)

vii. **Condition of infrastructure** : Good

viii. **Whether NHM Logo displayed** : Yes

 ix. **Whether funds disbursed to Agency**: Not yet

**Main Observations of JIT**

1. There is sufficient potential in Navsari District for area expansion of various horticulture crops especially mango, banana and other activities like setting up of nurseries, construction of community water tanks, post harvest management and marketing. In the district all the major activities have been taken up.

2. Out of 13 projects visited by team, 12 were funded under NHM and 1 project was funded by NHB. No programme of NBM and CDB was implemented in the
3. The Navsari Agriculture University has implemented 18 projects under NHM from 2006-07 to 2008-09. Out of which 13 projects are implemented in the main campus and 5 off campus. Out of these 5 programmes relates to training, seminar, workshop, 2 projects on rehabilitation of existing tissue culture lab, 7 nurseries (4 small and 3 model), 1 leaf tissue analysis lab and 2 plants health clinic, 1 project on creation of water resources at University campus was also implemented during 2007-08. This activity is basically meant for farmers as community water tank. It is not understood how this activity was implemented by University. The clarification needs to be given by the SHM. During the visit, only projects on model nursery of fruits & vegetables, flowers, aromatic & medicinal plants and tissue culture lab were seen, which were found in good condition. Team also met Director of Research and other Principal Investigators of the projects being implemented by the University. University should focus on development of new varieties of various horticulture crops suitable for the different agro-ecological region of the State and can take up the programmes of front line demonstrations in University farms as well as farmer’s field. Vegetable seed production programme can also be taken up by the University. University should collaborate with the SHM for providing the technical back stopping for effective implementation of NHM programme in the State.

4. The quality of implementation of the programme at field level is satisfactory and beneficiaries are appreciable of the programme activities.

5. There is need for construction of community water tanks/ponds in the district to tap the rain water and also link these structures with permanent water source wherever feasible to make the water available for horticulture crops in the lean period. These community tanks/ponds could be constructed under NHM or under MNREGS and funds for lining could be availed under NHM for the tanks constructed under MNREGS. These tanks should invariably be linked with Micro Irrigation programme for horticulture crops.

6. Keeping in view the vast area under horticulture crops in the district and additional area being brought under cultivation in NHM, there is a good scope for setting up of PHM and marketing infrastructure in the district. Though, during last two years quit a few projects of cold storages and ripening chambers have come up in the district, District Mission Committee (DMC) needs to play a proactive role in mobilizing the farmers/entrepreneurs, towards these activities.

7. In the farmer’s field, sign board along with NHM logo was not seen in many places. The DMC needs to ensure that proper sign boards are erected at each site. Deputy Director (Horticulture) of the district has assured to put the sign board at each project site.

8. The training of farmers on various aspect of horticulture needs to be conducted by involving SAU, KVKs and ATMA.
VALSAD DISTRICT

Valsad district is well known for Alphanso Mango. Farmers are very progressive, and are mango crop growers since long. Agro-climatic condition of the district is suitable for Mango, Sapota, and vegetable crops. Out of total cultivated area of 1.63 lakh ha, 45365 ha is under horticulture crop. Therefore, this district is known as horticulture hub in the state.

DETAIL OF VALSAD DISTRICT “HORTICULTURE Scenario”

<table>
<thead>
<tr>
<th>S. No.</th>
<th>DETAIL OF DISTRICT</th>
<th>AREA/No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Total Cultivated Area (ha)</td>
<td>163419</td>
</tr>
<tr>
<td>2.</td>
<td>Irrigation Area covered (ha)</td>
<td>58051</td>
</tr>
<tr>
<td>3.</td>
<td>Total Land holding Families (No.)</td>
<td>96728</td>
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<tr>
<td></td>
<td>(a) Marginal Farmers (No.)</td>
<td>54753</td>
</tr>
<tr>
<td></td>
<td>(b) Small Farmers (No.)</td>
<td>19418</td>
</tr>
<tr>
<td></td>
<td>(c) Scheduled Tribe (No.)</td>
<td>53470</td>
</tr>
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<td></td>
<td>(d) Scheduled cast (No.)</td>
<td>3280</td>
</tr>
<tr>
<td></td>
<td>(e) Normal (Big) (No.)</td>
<td>22555</td>
</tr>
<tr>
<td>4.</td>
<td>Main Agriculture crops</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Horticulture crops</td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Fruits crops</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Mango (ha)</td>
<td>25410</td>
</tr>
<tr>
<td></td>
<td>2. Sapota (ha)</td>
<td>3223</td>
</tr>
<tr>
<td></td>
<td>3. Banana (ha)</td>
<td>630</td>
</tr>
<tr>
<td></td>
<td>4. Coconut (ha)</td>
<td>2865</td>
</tr>
<tr>
<td></td>
<td>5. Papaya &amp; others fruits crops (ha)</td>
<td>2490</td>
</tr>
<tr>
<td>B.</td>
<td>Vegetables (Kharif, Rabi, Summer) (ha)</td>
<td>7229</td>
</tr>
<tr>
<td>C.</td>
<td>Spices (Chillies, Ginger, Turmeric) (ha)</td>
<td>177</td>
</tr>
<tr>
<td>D.</td>
<td>Floriculture crops (ha)</td>
<td>116</td>
</tr>
<tr>
<td></td>
<td>(Rose, Marigold, Spider Lilly)</td>
<td></td>
</tr>
<tr>
<td>E.</td>
<td>Aromatic &amp; Medicinal Crops (ha)</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Total Horticulture Crops in Hectare</td>
<td>45,365</td>
</tr>
</tbody>
</table>
Rejuvenation

1. Name and address of Beneficiary whose field visited:
   Shri Rajeshbhai Ratanchand Shah
   Kalgam, Fansa, Ta Umargam,
   Valsad.
   i. Total land available with the beneficiary (ha.):  4 ha
   ii. Crop Cluster under which covered: Mango.
   iii. Name and Variety of crop planted: Mango (Alphanso)
   iv. Source of planting material : Grafted plants from approved Nursery
   v. Number of plants rejuvenated :  200 in 2 ha area
   vi. Date of rejuvenated : June, 2006
   vii. Number of plants which survived after rejuvenation (also indicate percentage survival): 100 %
   viii. Amount of paid and date of payment : Rs 30000/- Feb 2007
   ix. Mode of payment : Cheque
   x. Source of irrigation water (Bore well/Tube well/ Canal)
      Bore well
   xi. Whether Drip/Sprinkler system in use.  Drip
   xii. Other inputs provided
      No
   xiii. Whether assistance availed for organic farming.
      No
   xiv. 19. If, so area covered.
      N.A.
   xv. Assistance availed.
      nil
xvi. Available marketing facility for the crop.
   Easily Marketable at Local Market and also sent to Mumbai

xvii. Other infrastructure available in the vicinity.
   Co-operative Society, local market, Ripening chamber, Cold Storage

xviii. General upkeep of the plot:
   Very good

Rejuvenation

2. Name and address of Beneficiary whose field visited:
   Shri Ratanchand Maganlal Shah
   Kalgam, Fansa, Ta Umargam,
   Valsad.
   i. Total land available with the beneficiary (ha.)
      4 ha
   ii. Crop Cluster under which covered
      Mango.
   iii. Name and Variety of crop planted
      Mango (Alphanso)

   iv. Sources of planting material
      Grafted plants
   v. Number of plants rejuvenated
      200 in 2.0 ha area
   vi. Date of rejuvenated
      June, 2006
   vii. Number of plants which survived after rejuvenation (also indicate percentage survival).
      100 %
viii. Total amount of subsidy assistance due to the beneficiary:

Rs 30000/-

ix. Amount of paid and date of payment

Rs 30000/-  Feb -2007

x. Mode of payment

Cheque

xi. Source of irrigation water (Bore well/Tube well/ Canal)

Bore well

xii. Whether Drip/Sprinkler system in use.

Drip

xiii. Other inputs provided

No

xiv. Whether assistance availed for organic farming.

No

xv. If, so area covered.

N.A.

xvi. Assistance availed.

nil

xvii. Available marketing facility for the crop.

Easily Marketable at Local Market

xviii. Other infrastructure available in the vicinity.

Co-operative society, local market, Ripening chamber and cold storage

xix. General upkeep of the plot:

Very good

Area Expansion

3. Name and address of Beneficiary whose field visited:

Shri Yamunaben Ratanchand Shah
Kalgam, Fansa, Ta Umargam,
Valsad.

i. Total land available with the beneficiary (ha.)

4 ha

ii. Crop Cluster under which covered

Mango.

iii. Name and Variety of crop planted

Mango (Alphanso)

iv. Sources of planting material
Grafted plants

v. Number of plants rejuvenated
   200 in 2 ha area

vi. Date of rejuvenated
   2006-07

vii. Number of plants which survived after rejuvenation (also indicate percentage survival).
   100 %

viii. Total amount of subsidy assistance due to the beneficiary:
   Rs 30000/-

ix. Amount of paid and date of payment
   Rs 30000/-

x. Mode of payment
   Cheque

xi. Source of irrigation water (Bore well/Tube well/ Canal)
   Bore well

xii. Whether Drip/Sprinkler system in use.
    Drip

xiii. Other inputs provided
    No

xiv. Whether assistance availed for organic farming.
    No

xv. If, so area covered.
    N.A.

xvi. Assistance availed.
    nil

xvii. Available marketing facility for the crop.
    Easily Marketable at Local Market

xviii. Other infrastructure available in the vicinity.
    Co-operative society, local market, Ripening chamber, cold storage

xix. General upkeep of the plot:
    Very good

   Area Expansion

4. Name and address of Beneficiary whose field visited:
   Shri Rajeshbhai Ratanchand Shah
   Kalgam, Fansa, Ta Umargam,
   Valsad.

   i. Total land available with the beneficiary (ha.)
ii. **Crop Cluster under which covered**
   Mango.

iii. **Name and Variety of crop planted**
   Mango (Kesar)

iv. **Source of planting material**
   Grafted plants from approved Nursery

v. **Number of plants planted and spacing**
   160 (m x m)

vi. **Date of planting**
   August - 2010

vii. **Number of plants which survived (also indicate percentage survival).**
   156  (99 %)

viii. **Total amount of subsidy assistance due to the beneficiary as**
   Rs 25168/-

ix. **Amount of paid and date of payment**
   Rs. 12568/-  Feb-2008
   Rs. 5000/-  Aug-2008
   Rs. 7600/-  July -2009

x. **Mode of payment**
   Cheque

xi. **Source of irrigation water (Bore well/Tube well/ Canal)**
   Bore well

xii. **Whether Drip/Sprinkler system in use.**
    Drip

xiii. **Other inputs provided**
    No

xiv. **Whether assistance availed for organic farming.**
    No
xv. If, so area covered. 
    N.A.
xvi. Assistance availed. 
    nil
xvii. Available marketing facility for the crop. 
    Easily Marketable at Local Market
xviii. Other infrastructure available in the vicinity. 
    Co-operative society, local market, Ripening chamber, cold storage
xix. General upkeep of the plot: 
    Very good

Area Expansion
5. Name and address of Beneficiary whose field visited: 
    Shri Ratanchand Maganlal Shah 
    Kalgam, Fansa, Ta Umargam, 
    Valsad.
i. Total land available with the beneficiary (ha.) 
    4 ha
ii. Crop Cluster under which covered 
    Mango.
iv. Name and Variety of crop planted 
    Mango (Kesar)
v. Sources of planting material 
    Grafted plants from reputed and approved nursery
vi. Number of plants planted and spacing 
    163 (m x m)
vii. Date of planting/rejuvenated 
    August -2007
viii. Number of plants which survived (also indicate percentage survival). 99 %
ix. Total amount of subsidy assistance due to the beneficiary as 
    Rs 12610/- Feb-2008 
    Rs. 5000/- Aug-2008 
    Rs. 7600/- July-2009
x. Amount of paid and date of payment 
    Rs 12610/-
xi. Mode of payment 
    Cheque
xii. Source of irrigation water (Bore well/Tube well/ Canal)
Bore well

xiii. Whether Drip/Sprinkler system in use.
       Drip

xiv. Other inputs provided
       No

xv. Whether assistance availed for organic farming.
       No

xvi. If, so area covered.
       N.A.

xvii. Assistance availed.
       nil

xviii. Available marketing facility for the crop.
       Easily Marketable at Local Market

xix. Other infrastructure available in the vicinity.
       Co-operative society, local market, Ripening chamber and cold storage

xx. General upkeep of the plot:
       Very good

Area Expansion

6. Name and address of Beneficiary whose field visited:
       Manubhai Dayalji Bhai Patel
       Namdha, Ta Pardi,
       Valsad.
       a. 2. Total land available with the beneficiary (ha.)
          ha
       b. 3. Crop Cluster under which covered
          Mango.

ii. Name and Variety of crop planted
       Mango (Alphanso)

iii. Sources of planting material
       Grafted plants from reputed approved nursery

iv. Number of plants planted and spacing
       260 plants in 2.6 ha area (10 m x 10 m)

v. Date of planting/rejuvenated
       August 2010

vi. Number of plants which survived (also indicate percentage survival).
       99 %
vii. Total amount of subsidy assistance due to the beneficiary as
    On process

viii. Amount of paid and date of payment: Yet to be paid
    On process

ix. Mode of payment : By Cheque

x. Source of irrigation water (Bore well/Tube well/ Canal)
    Bore well

xi. Whether Drip/Sprinkler system in use.
    Drip

xii. Other inputs provided
    No

xiii. Whether assistance availed for organic farming.
    No

xiv. If, so area covered.
    N.A.

xv. Assistance availed.
    nil

xvi. Available marketing facility for the crop.
    Easily Marketable at Local Market

xvii. Other infrastructure available in the vicinity.
    Co-operative society, local market, Ripening chamber and cold storage

xviii. General upkeep of the plot:
    Very good

**PHM Projects: Cold Storage**

7. Name & Location :
   Name: Home Agro Industries ltd.
   Sarigam Ta. Umargam
   District: Valsad

i. Project Cost / Amount Released by DAC/ Expenditure incurred
   Project Cost : 500.00 Lakh (2010-11)
   Amount Released by DAC : 45.00 Lakh (2010-11) Only First installment disbursed

ii. Capacity of unit
   10000 M.tonnes/day

iii. Commodity
Mango, Banana, Potato, Apple, peas, and frozen food (Fruit pulps, peas, okra) etc.

iv. Condition of infrastructure

Under construction

v. Whether NHM Logo displayed - Yes

vi. Whether funds disbursed to Agency - Yes

Main Observations of JIT:

1. Valsad district is a major hub for mango, sapota, coconut, papaya and vegetables.

2. There is good potential for further increase under these fruits for export as the new port is coming up very near to the district. Lots of post harvest management infrastructure is coming up in the district especially cold storage unit, ripening chambers and processing/value addition units. There is also scope for the setting up of wholesale / terminal markets in the district.

3. No programme of NBM and CDB was implemented in the district. The programme of Micro irrigation was linked with area expansion of NHM.

4. The quality of implementation of NHM programme at field level has been found satisfactory and beneficiaries have appreciated the programme activities.

5. It was also observed that there has been good linkages with the micro irrigation programme and all the orchards are linked with micro irrigation.

6. The programme of rejuvenation undertaken by Shri Rajeshbhai Ratanchand Shah was very good. He is very progressive farmer and has been awarded by the State Government. some pruned trees are more than 100 years old, though fruiting is very good (aprox. 140 kg/tree). It can be a good venue for training of farmer for rejuvenation. Farmer has also constructed a pack house/on-farm collection centre. However, he is
yet to receive subsidy under NHM. SHM should release subsidy at the earliest as per NHM norms.

7. There is good rainfall in the area, hence there is need for construction of community water tanks/ponds to tap the rain water and also link these structures with permanent water source, wherever feasible to make the water available for horticulture corps in lean period. These community tanks/ponds could be constructed under NHM or under MNREGS and funds for lining could be availed under NHM for the tanks constructed under MNREGS. The community tanks needs to be necessarily linked with Micro Irrigation and horticulture crops.

8. Keeping in view the vast area under horticulture crops in the district and additional area being brought under cultivation in NHM, there is good scope for up scaling the PHM and marketing infrastructure in the district. DMC needs to play a pro active role in mobilizing the farmers, entrepreneurs, towards these activities.

9. Lots of farmers are doing organic cultivation in the district. The area adopted under organic farming needs to be certified and projects may be submitted under NHM.

10. Except few places, the sign board along with NHM logo was not seen in the places visited. The DMC needs to ensure that proper sign board are erected at each site. Deputy Director (Horticulture) of the district has assured to put the sign board at each project site.
SURAT DISTRICT

Surat a ‘Diamond City’ is full of progressive farmers. It has well flourished Textile industry and previously had good belt of cotton growers. Now majority of farmers are doing hi-tech farming, and are growing banana with modern technology. Farmers are growing high value crops with plastic culture technology. There is very good scopes of value addition due to presence of cold storage, ripening chamber and processing units.

DETAIL OF SURAT DISTRICT “HORTICULTURE SCENARIO”

<table>
<thead>
<tr>
<th>SR. NO.</th>
<th>DETAIL OF DISTRICT</th>
<th>AREA/NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Total Cultivated Area in Hectare</td>
<td>259574</td>
</tr>
<tr>
<td>2.</td>
<td>Irrigation Area covered in Hectare</td>
<td>158000</td>
</tr>
<tr>
<td>3.</td>
<td>Total Land holding Families</td>
<td>127790</td>
</tr>
<tr>
<td></td>
<td>(a) Marginal Farmers</td>
<td>46232</td>
</tr>
<tr>
<td></td>
<td>(b) Small Farmers (No.)</td>
<td>35615</td>
</tr>
<tr>
<td></td>
<td>(c) Normal (Big) (No.)</td>
<td>45943</td>
</tr>
<tr>
<td></td>
<td>(d) Scheduled Tribe (%)</td>
<td>35528</td>
</tr>
<tr>
<td></td>
<td>(e) Scheduled cast (%)</td>
<td>3854</td>
</tr>
<tr>
<td>4.</td>
<td>Main Agriculture crops</td>
<td>Paddy, Sugarcane</td>
</tr>
<tr>
<td>5.</td>
<td>Horticulture crops</td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Fruits crops</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Mango (ha)</td>
<td>7135</td>
</tr>
<tr>
<td>2.</td>
<td>Sapota (ha)</td>
<td>2040</td>
</tr>
<tr>
<td>3.</td>
<td>Banana (ha)</td>
<td>10815</td>
</tr>
<tr>
<td>4.</td>
<td>Coconut (ha)</td>
<td>146</td>
</tr>
<tr>
<td>5.</td>
<td>Papaya (ha)</td>
<td>1340</td>
</tr>
<tr>
<td>6.</td>
<td>Others fruits crops (ha)</td>
<td>294</td>
</tr>
<tr>
<td>B.</td>
<td>Vegetables (Kharif, Rabi, Summer) (ha)</td>
<td>19520</td>
</tr>
<tr>
<td>C.</td>
<td>Spices (Chillies, Ginger, Turmeric etc) (ha)</td>
<td>2249</td>
</tr>
<tr>
<td>D.</td>
<td>Floriculture crops (ha) (Rose, Marigold, Spider Lilly etc)</td>
<td>789</td>
</tr>
<tr>
<td>E.</td>
<td>Aromatic &amp; Medicinal Crops (ha)</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td>Total Horticulture Crops in Hectare</td>
<td>44405</td>
</tr>
</tbody>
</table>
Area Expansion

1. Name and address of Beneficiary whose field visited:
   Maganbhai Narotambhai Patel
   Gotiya, Palsana, Surat

   i. Total land available with the beneficiary (ha.)
      2.61ha

   ii. Crop Cluster under which covered
       Banana

   iii. Name and Variety of crop planted
        Banana G-9

   iv. Source of planting material
       Tissue Culture

   v. Number of plants planted and spacing
      3100 (1.8 m x 1.8 m)

   vi. Date of planting.
       June, 2010

   vii. Number of plants which survived (also indicate percentage survival).
        99 % (replantation done)

   viii. Total amount of subsidy assistance due to the beneficiary as (Rs.)
        Rs. 31200

   ix. Amount of paid and date of payment
       Rs. 31200

   x. Mode of payment
      Cheque

   xi. Source of irrigation water (Bore well/Tube well/ Canal)
      Bore well

   xii. Whether Drip/Sprinkler system in use.
       Drip

   xiii. Other inputs provided
        Fertilizer, manure, pesticides, IPM/INM

   xiv. Whether assistance availed for organic farming.
        No

   xv. If, so area covered.
       N.A.

   xvi. Assistance availed.
xvii. **Available marketing facility for the crop.**

   Contract farming

xviii. **Other infrastructure available in the vicinity.**

   Ripening chamber

xix. **General upkeep of the plot:**

   Very good
**Area Expansion**

2. **Name and address of Beneficiary whose field visited:**
   Parimalbhai Balvantbhai Gotiya, Palsana, Surat

   i. **Total land available with the beneficiary (ha.)**
      1 ha

   ii. **Crop Cluster under which covered**
       Banana

   iii. **Name and Variety of crop planted**
       Banana G-9

   iv. **Source of planting material**
       Tissue Culture (Ratoon)

   v. **Number of plants planted and spacing**
      3100 (1.8 m x 1.8 m)

   vi. **Date of planting.**
       July, 2009

   vii. **Number of plants which survived (also indicate percentage survival).**
       99 % (replantation done)

   viii. **Total amount of subsidy assistance due to the beneficiary as (Rs.)**
        Rs. 7500

   ix. **Amount of paid and date of payment**
        Rs. 7500

   x. **Mode of payment**
       Cheque

   xi. **Source of irrigation water (Bore well/Tube well/ Canal)**
       Bore well

   xii. **Whether Drip/Sprinkler system in use.**
       Drip

   xiii. **Other inputs provided.**
        Fertilizer, manure, pesticides, IPM/INM
xiv. Whether assistance availed for organic farming.

   No

xv. If, so area covered.

   N.A.
xvi. Assistance availed.
   nil

xvii. Available marketing facility for the crop.
   Contract farming

xviii. Other infrastructure available in the vicinity.
   Ripening chamber

xix. General upkeep of the plot:
   Very good

3. Name and address of Beneficiary whose field visited:
   Shri Laxmi Floritech
   Laxmiben Sureshbhai Parmar,
   Tundi, Palsana, Surat
   i. Total land available with the beneficiary (ha.)
      ha
   ii. Crop Cluster under which covered
        Green house, Gerbera 1000 s.m.
   iii. Name and Variety of crop planted
        Gerbera
   iv. Source of planting material
        Tissue Culture from reputed company (K.F. biotech)
   v. Number of plants planted and spacing
      5455 (        )
   vi. Date of planting.
      September 2010
   vii. Number of plants which survived (also indicate percentage survival).
      99 % (replantation done)
   viii. Total amount of subsidy assistance due to the beneficiary
      Rs. 467500
   ix. Amount of paid and date of payment
      Rs. 467500
   x. Mode of payment
      Cheque
   xi. Source of irrigation water (Bore well/Tube well/ Canal)
      Bore well
   xii. Whether Drip/Sprinkler system in use.
       Green house, Drip, sprinkler, foggers.
   xiii. Other inputs provided
xiv. Whether assistance availed for organic farming.
   No

xv. If, so area covered.
   N.A.

xvi. Assistance availed.
   nil

xvii. Available marketing facility for the crop.
   All over India

xviii. Other infrastructure available in the vicinity.
   Farmers group have Refer- van, cold storage, pre-cooling system

xix. General upkeep of the plot:
   Very good

xx. Any other relevant observation by the JIT
   Progressive Farmer, Member of Floriculture group for easy marketing

4. Name and address of Beneficiary whose field visited:
   Ramdev Floritech
   Dahyabhai Somabhai Parmar,
   Tundi, Palsana, Surat

i. Total land available with the beneficiary (ha.)
   0.21 ha

ii. Crop Cluster under which covered
    Green house, Dutch Rose 1000 sqm

iii. Name and Variety of crop planted
    Dutch Rose

iv. Source of planting material
v. Number of plants planted and spacing
   3500
vi. Date of planting.
   2007-08
vii. Number of plants which survived (also indicate percentage survival).
    95 % (replantation done)
viii. Total amount of subsidy assistance due to the beneficiary as (Rs.)
     Rs. 325000
ix. Amount of paid and date of payment
    Rs. 325000
x. Mode of payment
    Cheque
xi. Source of irrigation water (Bore well/Tube well/ Canal)
    Bore well
xii. Whether Drip/Sprinkler system in use.
     Green house Drip, sprinkler, foggers.

xiii. Other inputs provided
     No
xiv. Whether assistance availed for organic farming.
     No
xv. If, so area covered.
     N.A.

xvi. Assistance availed.
     nil
xivii. Available marketing facility for the crop.
     Nearby city like Surat, Mumbai, Navsari, Valsad
xviii. Other infrastructure available in the vicinity.
     Farmers group have Refer-van, cold storage, pre-cooling system

xix. General upkeep of the plot:
     Very good
xx. Any other relevant observation by the JIT
     Progressive Farmer, Member of Floriculture group for easy marketing
5. Name and address of Beneficiary whose field visited:
   Kaushikbhai Ramjibhai Patel,
   Parvat, Choryasi, Surat

   i. Total land available with the beneficiary (ha.)
      1.90 ha

   ii. Crop Cluster under which covered
       Banana Tissue (Mulching)

   iii. Name and Variety of crop planted
        Banana G-9

   iv. Source of planting material
       Tissue Culture plants

   v. Number of plants planted and spacing
      3100 (     )
vi. Date of planting.
   June, 2010

vii. Number of plants which survived (also indicate percentage survival).
   99 % (replantation done)

viii. Total amount of subsidy assistance due to the beneficiary as (Rs.)
   Rs. 23250 (75 %) for 1.00 Ha Under R.K.V.Y.

ix. Amount of paid and date of payment
   Rs. 23250

x. Mode of payment
   Cheque

xi. Source of irrigation water (Bore well/Tube well/ Canal)
   Bore well

xii. Whether Drip/Sprinkler system in use.
   Drip

xiii. Other inputs provided
   Fertilizer, manure, pesticides, IPM/INM

xiv. Whether assistance availed for organic farming.
   No

xv. If, so area covered.
   N.A.

xvi. Assistance availed.
   Nil

xvii. Available marketing facility for the crop.
   Contract farming

xviii. Other infrastructure available in the vicinity.
   Ripening chamber

xix. General upkeep of the plot:
   Very good

xx. Any other relevant observation by the JIT
   Progressive Farmer.

6. Name and address of Beneficiary whose field visited:
   Umeshbhai Khimjibhai Patel
   Parvat, Choryasi, Surat

i. Total land available with the beneficiary (ha.)
   ha

ii. Crop Cluster under which covered
   Banana Tissue with Mulching

iii. Name and Variety of crop planted
iv. **Source of planting material**
   Tissue Culture plants

v. **Number of plants planted and spacing**
   3100 (1.8 m x 1.8 m)

vi. **Date of planting.**
   June, 2010

vii. **Number of plants which survived (also indicate percentage survival).**
   99 % (replantation done)

viii. **Total amount of subsidy assistance due to the beneficiary as (Rs.)**
   Rs. 23250 (75 %)for 1.00 Ha Under R.K.V.Y.

ix. **Amount of paid and date of payment**
   Rs. 23250

x. **Mode of payment**
   Cheque

xi. **Source of irrigation water (Bore well/Tube well/ Canal)**
   Bore well

xii. **Whether Drip/Sprinkler system in use.**
   Drip

xiii. **Other inputs provided**
   Fertilizer, manure, pesticides, IPM/INM

xiv. **Whether assistance availed for organic farming.**
   No

xv. **If, so area covered.**
   N.A.

xvi. **Assistance availed.**
   Nil

xvii. **Available marketing facility for the crop.**
   Contract farming

xviii. **Other infrastructure available in the vicinity.**
   Ripening chamber

xix. **General upkeep of the plot:**
   Very good

xx. **Any other relevant observation by the JIT**
   Progressive Farmer, bunch cover used (blue bag).
INM Infrastructure
7. Bio Control Lab: Pramukh Agri Clinic
   i. Project Cost
      Above Rs. 80 lacks
   ii. Amount Released by DAC/
      Rs. 33.27 lacks
   iii. Expenditure incurred
      Above Rs. 80 Lacks
   iv. Whether trained manpower deployed: Yes
   v. Arrangements made to meet recurring cost : From Sales of product
   vi. Name of agents produced :
vii. Quantity sold:

Sales of bio-product in 2007-08 – Rs. 76.33 lacks
Sales of bio-product in 2008-09 – Rs. 2.79 crores
Sales of bio-product in 2009-10 – Rs. 76.33 crores

Amount realized through sale

General condition of Lab during the time of inspection

Very Good

PHM Projects

8. Ripening Chamber (private sector)

i. Name: Sardar Bagayat Seva Sahkari Mandali Ltd,
    Sardar Baug, Bardoli, District: Surat

ii. Project Cost / Amount Released by DAC/ Expenditure incurred

    Project Cost : Rs. 11.63 Lakh (2007-08)
    Amount Sanctioned by DAC : Rs. 4.65 Lakh
    Amount Released by DAC : Rs. 2.33 Lakh

iii. Capacity of unit

    13 tonnes/day
iv. Commodity

Banana

v. Condition of infrastructure

Very Good

vi. Whether NHM Logo displayed - Yes

vii. Whether funds disbursed to Agency - Yes

Main Observations of JIT

1. Surat district is a major hub for mango, banana, papaya and vegetables. Due to availability of some retailers who are offering contract farming and other facilities like quality inputs, assured markets, during last 3 years, large area has come up under tissue culture banana. As a result, many ripening chambers have also been set up in recent past and most of them under NHM.

2. Shri Maganbhai Narotambhai Patel is a progressive Farmer and he used bunch cover (blue bag) to prevent from insects and disease, Pair row system adopted.

3. In Surat, many farmers have ventured for floriculture under green houses in a cluster mode. Large no of such units have been supported by NHB and NHM.

4. NHB have also funded many Green house projects in Surat district. No programme of NBM and CDB was implemented in the district. The programme of Micro irrigation was linked with area expansion of NHM.

5. There is good potential for further increase under fruits like banana and mango for export as the new port is coming up very near to the district. Lots of post harvest management infrastructure is coming up in the district especially cold storage unit, ripening chambers and processing/value addition units. There is also scope for the setting up of wholesale / terminal markets in the district.SHM need to play proactive role in this regard.

6. The quality of implementation of the programme at field level has been found satisfactory and beneficiaries have appreciated the programme activities.

7. Except few places, the sign board along with NHM logo was not seen in the places visited. The DMC needs to ensure that proper sign board is
erected at each site. Deputy Director (Horticulture) of the district has assured to put the sign board at each project site.

On 7th October, 2010 while going to Ahmadabad, the project on bio control lab established by Pruthvi Fertilizer Pvt. Ltd. at Anand was also visited. The project was funded under NHM. In the lab bio control agents like Trichoderma, pseudomonas verticillium and bio fertilizers like Rhizobium, Azospirillium Azotobacter, phosphate solubilizing bacteria etc are being produced. The lab is maintaining quality standards for the products and supplying the bio agents to the farmers of the district.

**Wrap up Meeting**

On 7th October, 2010, the team met Shri S. R. Chaudhary, Director, Horticulture and Mission Director, SHM Government of Gujarat at his office and briefed him about the observations of the field visit. Overall progress of NHM programme being implemented in the State was discussed with him. Shri Chaudhary has promised to take necessary corrective steps to expedite the implementation of the scheme. In the meeting Shri R. J. Asari, Mission Director, Bamboo Mission, Department of Forest, Shri Shyamal Tikadar, General Manager, Gujarat Green Revolution Company (GGRC) and Shri D.K Pal, Assistant Director, NHB were also present. In the meeting the progress of implementation of the programme on National Bamboo Mission, National Mission on Micro Irrigation, Coconut Development Board and National Horticulture Board was also discussed and reviewed.

Shri R. J. Asari informed that the National Bamboo Mission is being implemented in the district of Bharuch, Dang, Surat, Tapi and Valsad. Under the Mission during 2007-08 to 2010-11, an amount of Rs. 1015.06 lakh was released and Rs. 9.95 lakh was accrued as interest. Against this, an amount of Rs. 1014.26 lakh has been spent. Under physical progress against the total target of 10334 ha, an area of 13502 ha area has been developed in both forest and non forest lands. He further, mentioned that the grant under the Mission is always received late and is insufficient. The Action Plan is also sanctioned late and is almost 50% of the proposed by the State. He further mentioned that grant should not be deducted for handy craft and marketing for the Kotwalia tribe, which is primitive tribe.

Shri Tikadar informed that the Micro Irrigation programme is being implemented in all the 26 district of the State and is successfully being implemented. He informed that under the programme during 2005-06 to 2009-10, an area of 2.49 lakh ha has been covered under drip and sprinkler system in horticulture and non horticulture crops and 1.53 lakh beneficiaries have covered under the programme. Regarding the financial achievement he informed that against the total release of Rs. 252.6 crore, an amount of Rs.233.82 crore was spent during 2005-06 to 2009-10.

Shri D. K. Pal, Assistant Director, NHB informed that to cater the need of the farmers of Gujarat. NHB has two offices located in Ahmadabad and Surat. He informed that under the scheme of development of commercial horticulture through production and post harvest management, so far, for the project upto Rs. 20.00 lakh and LOI has been issued to 4492 projects and subsidy has been released to 1312 projects. For the projects above Rs. 20.00 lakh so far, 355 projects have been inspected. Under the scheme on capital investment subsidy construction/modernisation/expansion of cold storages for horticulture produce during 2008-09 to 2010-11, 12 units have been funded through NABARD with estimated subsidy of Rs. 293.11 lakh.
Recommendations based on observations made during field visit and review of overall progress of NHM scheme in the State.

i. Overall progress of implementation of the NHM programme in these three districts is satisfactory. However, keeping in view the potential for horticulture development in these districts, more efforts needs to be made by the District Mission Committees (DMC), especially in the area of post harvest management and marketing. The entire production cluster needs to be linked with PHM & Marketing infrastructure including existing & new one.

ii. The District Horticulture Mission Committee needs to monitor the progress of implementation of the NHM programme. Proper coordination between the District Mission Committee and GGRC, who is responsible for implementation of Micro Irrigation scheme, needs to be ensured.

iii. A good progress has been made under the mission in area expansion of fruits like mango, banana and papaya in these districts. Efforts should be made by SHM to promote PHM projects, especially ripening chambers for banana. Success story for these crops should be prepared and submitted to NHM.

iv. Farmers are also coming forward for the cultivation of flowers under green houses. Such projects need to be taken up in a cluster mode. Efforts should also be made for cultivation of vegetables under green houses in the peri urban area of metros and big cities, so that good quality vegetables is available for the urban consumers.

v. Under rejuvenation, there is very slow progress in the State. Hence, needs to be expedited. The programme of rejuvenation undertaken by Shri Rajeshbhaji Ratanchand Shah at village Kalgam, Tahsil, Umargaon of district Valsad is worth replicating. It can be a good venue for training of farmers for rejuvenation.

vi. The cultivation of tissue culture banana by some farmers in Surat district by adopting pair row system and bunch cover (blue bag) to prevent from insects, pests and disease, is also worth replicating.

vii. Though Bharuch, Anand and Narmada districts are covered for crop insurance for banana, Surat district is not notified for the same. SHM needs to take up the matter with the concerned authority.

viii. A large number of projects have been sanctioned to 4 State Agriculture Universities. However, the pace of implementation of these projects is very slow. Therefore, SHM may nominate Dr. L. R. Verma, who is also the member of JIT, to monitor and review the progress of these projects sanctioned to SAUs and submit a report to SHM.

ix. Pit diggers to be allowed under mechanization.

x. NIT, Surat has been declared by NHB as resources Institute for appraising the PHM projects. Therefore, SHM may also avail the services of this Institute.

xi. More projects needs to be submitted for creation of PHM and Marketing infrastructure. However, cold storage projects to be appraised as per the new standards recommended by NHB.

xii. In order to ensure that farmers apply the appropriate/prescribed quality and quantity of inputs in the area expansion programme, necessary monitoring mechanism is put in place. DMC needs to ensure that necessary quality checks for supply of planting material to farmers are under taken by the experts.
xiii. Programmes of adoption of organic farming should be linked with the vermi compost units and certification in the identified and compact clusters and not in an isolated manner. The comprehensive guideline on organic farming issued recently needs to be strictly adopted.

xiv. The District Mission Committee of all the 3 districts have maintained the records of various activities taken up under NHM, assistance being provided in the forms of package to farmers under different components, block wise and village wise details of farmers, area covered and items provided. However, Khasra No. also needs to be indicated in all cases. This needs to be maintained for real time monitoring.

xv. Proper technical guidance from the nearby stations/centre of State Agriculture University, PFDC, NRC, Krishi Vigyan Kendra and ATMA should be obtained by the field level implementing officers and implemented in the field.

xvi. Farmers should be advised to go for intercropping of legumes or vegetables in the newly established orchards.

xvii. Rigorous skill up gradation training of staff is needed to develop their technical competence. Staff engaged in the implementation of NHM programme at Head quarter and field level should be imparted orientation training in different aspects of horticulture. For this purpose, training calendar for 2011-12, should be drawn up.

xviii. For smooth functioning of the NHM programme, there is urgent need for creating a batch of dedicated staff with electronic connectivity and expertise at the SHM headquarter as Project Coordination Unit (PCU) for rigorous monitoring and coordination with District authorities and NHM. At district head quarter, there is also need of creation of a Project Implementation Unit (PIU) for implementation of NHM programme in a Mission mode. SHM officers should regularly visit the project area in the field for inspection & verifications.

xix. Proper sign board with NHM logo indicating the name of beneficiary, activity, cost, assistance provided, year, etc. needs to be displayed at each work site.

xx. To ensure transparency in implementation of various activities under NHM, details about the activities approved in the village, cost of work, subsidy available, name of beneficiaries, area covered and year of implementation needs to be displayed at the common places in the village viz. Panchayat Bhavan, School Building etc.

xxi. Since, sufficient staff is not available for monitoring of NHM programme; SHM can appoint the domain specific consultants under TSG component.

xxii. As per NHM guidelines, there is provision for engagement of experienced persons in technical support group at SHM head quarter or if need be few of them can even be posted in the districts on contractual basis.

xxiii. The annual report of the NHM programme and success stories of various NHM interventions needs to be submitted to DAC at the earliest.

*****
Details of various project activities taken up under NHM in Gujarat during 2005-06 to 2009-10.

1. Nursery/ Vegetable seed production/ Seed Infrastructure

- Name of Project: Nurseries Establishment

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Nurseries</th>
<th>Total Subsidy Cost (Rs. in Lakhs)</th>
<th>Amount Released (Rs. in Lakhs)</th>
<th>Expenditure Incurred (Rs. in Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model- 3</td>
<td>54.00</td>
<td>54.00</td>
<td>54.00</td>
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Status of Nurseries Project

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**Public sector Sector (Small Nursery)***

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**Private sector (Model Nursery)**

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**Private sector (Small Nursery)**

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2. Vegetable Seed Production

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3. Technology Dissemination through FLD

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<td>Front line demonstration on vegetable crops</td>
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<td>Seminar on Horticultural Crops in the North Gujarat: Opportunity and Thrusts</td>
<td>S. D. Agricultural University, S. K. Nagar</td>
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<td>6</td>
<td>Seminar on Date palm</td>
<td>KVK, Sadau, Dist.-Kutch</td>
<td>0.39</td>
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<td>7</td>
<td>Pomegranate Training</td>
<td>Suryanagar Co-operative Society, Idar, Dist.-Sabarkantha</td>
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<td>8</td>
<td>Awareness Programme</td>
<td>KVK, Ambuja Foundation, Kodinar, Dist.-Junagadh</td>
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<td>9</td>
<td>Awareness Programme</td>
<td>APEDA, New Mumbai</td>
<td>0.13</td>
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<td>10</td>
<td><strong>Year-2010-11</strong></td>
<td><strong>NHM-2010-11</strong></td>
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<tr>
<td>11</td>
<td>Farmer's Training on Vegetable Transplanting Growing</td>
<td>K.V.K.-Dethali, Gujarat Vidhyapith, Ta: Matara, District: Kheda</td>
<td>0.08</td>
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<tr>
<td>12</td>
<td>Workshops on Crop Production of Horticultural Crops</td>
<td>Department of Biocontrol, Anand Agriculture University, Anand</td>
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<tr>
<td>13</td>
<td>Farmer's Training on Green House under NHM-2010-11</td>
<td>NIPHT's, Horticulture Training Centre, Pune</td>
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<td>14</td>
<td>Seminar On Vegetable Crop Cultivation</td>
<td>K.V.K.-Ambheti, Ta: Kaparada, District: Valsad</td>
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<tr>
<td>15</td>
<td>National Seminar on Production Technology and Marketing of Acid Lime in India</td>
<td>K.V.K.-Ganapat University, Ta: Kherva, District: Mehsana</td>
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<td>16</td>
<td>Training of Farmers</td>
<td>KVK-Mangalbharati, At: Golagamadi, Ta: Sankheda, Dist: Vadodara</td>
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<td><strong>TOTAL</strong></td>
<td><strong>5.37</strong></td>
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5. Creation of Water Resources

- Name of Implementing Agency: Gujarat Land Development corporation, Gandhinagar
- Location of Project: All the Districts of NHM

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Year</th>
<th>Amount Released by DAC</th>
<th>Developed water resources on community basis</th>
<th>Expenditure incurred (Rs. in Lakhs)</th>
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<tr>
<td>1</td>
<td>2006-07</td>
<td>425</td>
<td>116</td>
<td>287.40</td>
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<td>2</td>
<td>2007-08</td>
<td>400</td>
<td>61</td>
<td>520.14</td>
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<td>3</td>
<td>2008-09</td>
<td>700</td>
<td>141</td>
<td>704.59</td>
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<td>4</td>
<td>2009-10</td>
<td>722.87</td>
<td>127</td>
<td>712.48</td>
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<td>5</td>
<td>2010-11 (Up to July-2010)</td>
<td>750.00</td>
<td>105</td>
<td>442.55</td>
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IPM/INM Infrastructure:

6. Bio Control Lab: (Rs. In Lakh)

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<tr>
<th>Sr. No.</th>
<th>Name of Implementing Agency &amp; Location of Project</th>
<th>Year of Implementation</th>
<th>Total Subsidy Cost</th>
<th>Amount Released by DAC/Expenditure incurred</th>
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<tr>
<td>1</td>
<td>Dry farming Research Station, SDAU, Dantiwada</td>
<td>2007-08</td>
<td>27.49</td>
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<td>3</td>
<td>Department of Entomology, JAU, Junagadh</td>
<td>2008-09</td>
<td>80.00</td>
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<td>4</td>
<td>Pruthvi Fertilizer Pvt Ltd. Unit Pro Bio International</td>
<td>2008-09 2009-10</td>
<td>37.50 17.75 55.25</td>
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<td>5</td>
<td>Anand Agriculture University, Anand</td>
<td>2009-10</td>
<td>80.00</td>
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<td>TOTAL</td>
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### 7. Plant Health Clinic:

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<th>Year of Implementation</th>
<th>Amount Released by DAC/Expenditure incurred</th>
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<tr>
<td>1</td>
<td>Rapid tissue testing lab, JAU, Junagadh</td>
<td>2006-07</td>
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<td>2</td>
<td>Agri. Experimental station, Paria, Valsad, NAU, Navsari</td>
<td>2007-08</td>
<td>13.50</td>
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<td>3</td>
<td>KVK, Vyara, Surat, NAU, Navsari</td>
<td>2007-08</td>
<td>15.50</td>
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<td>4</td>
<td>B.A. College of Agriculture, AAU, Anand</td>
<td>2008-09</td>
<td>10.00</td>
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### 8. Leaf tissue culture analysis Lab.

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<th>Sr. No.</th>
<th>Name of Implementing Agency &amp; Location of Project</th>
<th>Year of Implementation</th>
<th>Total Project Cost/ Amount Released by DAC/Expenditure incurred</th>
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<tr>
<td>1</td>
<td>Micronutrient project (ICAR) Anand Agricultural University, Anand</td>
<td>2006-07</td>
<td>20.00</td>
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<tr>
<td>2</td>
<td>Loyola Centre for Research and Development St. Xavier’s College Campus, Navrangpura, Ahmedabad- 380 009</td>
<td>2009-10</td>
<td>2.15</td>
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<td><strong>TOTAL</strong></td>
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### 9. Organic farming/Vermi composting Units

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<th>Name of Implementing Agency &amp; Location of Project</th>
<th>Year of Implementation</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Agricultural Finance Corporation Ltd., Mumbai</td>
<td>2010-11</td>
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## 10. Post Harvest Management

(Pack house/Cold Storage/CA storage/ Ref. Van/Primary/mobile Processing Unit)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Project</th>
<th>Name of Implementing Agency &amp; Location of Project</th>
<th>Total Project Cost/Amount Released by DAC/Expenditure incurred</th>
<th>Project Status</th>
<th>Year of Implementation</th>
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<tbody>
<tr>
<td>1</td>
<td>Cold Storage (Private Sector)</td>
<td>Laxmi cold storage At. Sabalpur, Ta. Modasa Dist. Sabarkantha</td>
<td>48.00</td>
<td>Completed</td>
<td>2006-07</td>
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<tr>
<td>2</td>
<td>Cold Storage (Private Sector)</td>
<td>Palbro International Pvt. Ltd. At. Tadkuva, Ta, Vyara, Surat</td>
<td>24.00</td>
<td>Completed</td>
<td>2007-08</td>
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<td>3</td>
<td>Cold storage (Private Sector)</td>
<td>Kisan Cold storage At. Tatithaya Ta. Palsana Di. Surat</td>
<td>42.50</td>
<td>Completed</td>
<td>2007-08</td>
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<td>4</td>
<td>Cold storage (Private Sector)</td>
<td>Ambika Cold storage At. Shinol Ta. Dhansura Di. Sabarkantha</td>
<td>50.00</td>
<td>Completed</td>
<td>2008-09</td>
</tr>
<tr>
<td>5</td>
<td>Cold storage (Private Sector)</td>
<td>Balram Cold storage At. Vadgam Ta. Dhansura Di. Sabarkantha</td>
<td>50.00</td>
<td>Completed</td>
<td>2008-09</td>
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<tr>
<td>6</td>
<td>Cold storage (Private Sector)</td>
<td>expansion – Ambika cold storage At. Navagam, Ta. Kapadvanj, Di. Kheda</td>
<td>15.00</td>
<td>Completed</td>
<td>2008-09</td>
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</table>
|   | Cold storage (Private Sector) | Rajendra Agro Storage  
Kalavad Road, GIDC, Metoda, Plot No.G.539, Taluka : Lodhika Dist.: Rajkot | 41.00 | Completed | 2009-10 |
|---|-----------------------------|-------------------------------------------------------------------------------------------------|-------|----------|--------|
| 10 | Cold storage (Private Sector) | Krushi Cold Storage  
At: Sabalpur, Modasa-Himatnagar Road, Taluka: Modasa, Dist.: Sabarkantha | 50.00 | Completed | 2009-10 |
| 11 | Cold storage (Private Sector) | Dharti Cold Storage  
At: Mahadevpura, Taluka: Modasa, Dist.: Sabarkantha | 50.00 | Completed | 2009-10 |
| 12 | Cold storage (Private Sector) | Hariom Cold Storage  
At: Harsol, Taluka: Talod, Dist.: Sabarkantha | 50.00 | Completed | 2009-10 |
| 13 | Cold storage (Private Sector) | Arbuda Cold Storage  
At: Kansari, Dhanera Road, Taluka: Deesa, Dist.: Banaskantha | 50.00 | Completed | 2009-10 |
| 14 | Cold storage (Private Sector) | Shri Laxman Cold Storage  
At: Kansari, Dhanera Road, Taluka: Deesa, Dist.: Banaskantha | 50.00 | Completed | 2009-10 |
| 15 | Cold storage (Private Sector) | Siddhi Cold Storage  
Private Limited  At: Lorwada, Taluka: Deesa, Dist.: Banaskantha | 50.00 | Completed | 2009-10 |
| 16 | Cold storage (Private Sector) | Rahi Cold Storage  
At: Jorapura, Tharad Road, Taluka: Deesa, Dist.: Banaskantha | 50.00 | Completed | 2009-10 |
| 17 | Expansion of cold storage (Private Sector) | Jai Mataji Cold Storage  
At: Rajpur, Ranpur Road, Taluka: Deesa, Dist.: Banaskantha | 35.88 | Completed | 2009-10 |
| 18 | Cold storage (Private Sector) | Shree Jay Hanuman Cold Storage  
At: Kansari, Dhanera Road, Taluka: Deesa, Dist.: Banaskantha | 50.00 | Completed | 2009-10 |
<table>
<thead>
<tr>
<th></th>
<th>Project Type</th>
<th>Company Details</th>
<th>Cost</th>
<th>Status</th>
<th>Year</th>
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<tr>
<td>19</td>
<td>cold storage (Private Sector)</td>
<td>Gokul Freezing House Pvt. Ltd. At: Parbatpura, Taluka: Mansa, Dist.: Gandhinagar</td>
<td>50.00</td>
<td>Completed</td>
<td>2009-10</td>
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<td>20</td>
<td>Expansion of Cold Storage (Private Sector)</td>
<td>M/S Prabhukishan Agro Products P. Ltd., At: Sampa, Taluka: Dehgam, Dist.: Gandhinagar</td>
<td>50.00</td>
<td>Completed</td>
<td>2009-10</td>
</tr>
<tr>
<td>21</td>
<td>Cold storage (Private Sector)</td>
<td>Ramjyoti Shitalaya Pvt. Ltd., At: Sampa, Taluka: Dehgam, Dist.: Gandhinagar</td>
<td>45.33</td>
<td>Completed</td>
<td>2009-10</td>
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<tr>
<td>22</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Rameshwar cold storage At. Dama, Tal. Deesa Dist: Banaskantha</td>
<td>69.95</td>
<td>Completed</td>
<td>2009-10</td>
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<td>23</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Shreer Sainath Cold Storage, At: Dama, Tal: Deesa Dist: Banaskantha</td>
<td>50.00</td>
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<td>2009-10</td>
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<td>Cold storage (Private Sector)</td>
<td>M/s Vaishnodevi Cold Storage, At: Malgadh, Tal: Deesa, Dist: Banaskantha</td>
<td>50.00</td>
<td>Completed</td>
<td>2009-10</td>
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<td>25</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Shree Ambica Cold Storage, At: Kant, Tal: Deesa, Dist: Banaskantha</td>
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<td>26</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Jay Satima Cold Storage, At: Jorapur, Tal: Deesa, Dist: Banaskantha</td>
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<td>Completed</td>
<td>2009-10</td>
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<td>27</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Gajanand Cold Storage, At: Ranpur, Tal: Deesa, Dist: Banaskantha</td>
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<td>28</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Kamdhenu Cold Storage, At: Jorapur, Tal: Deesa, Dist: Banaskantha</td>
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<td>Cold storage (Private Sector)</td>
<td>M/s Bansidhar Cold Storage, At: Malgadh, Tal: Deesa, Dist: Banaskantha</td>
<td>50.00</td>
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<tr>
<td>No.</td>
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<td>Details</td>
<td>Amount</td>
<td>Status</td>
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<td>30</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Parmeshwar Cold Storage, At: Jorapur, Tal: Deesa, Dist: Banaskantha</td>
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<td>31</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Jay Dwarkadhish Cold Storage, At: Dama, Tal: Deesa, Dist: Banaskantha</td>
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<td>32</td>
<td>Cold storage (Private Sector)</td>
<td>M/s Jay Narayan Cold Storage, At: Kansari, Tal: Deesa, Dist: Banaskantha</td>
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<td>Expansion of Cold storage (Private Sector)</td>
<td>M/s Shree Ajanta Cold Storage, At: Bhoyan, Tal: Deesa, Dist: Banaskantha</td>
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<td>TOTAL</td>
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</table>

**Processing Unit/Pack house/Repining chamber**

<table>
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<tbody>
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<td>1</td>
<td>Primary Processing unit (Private Sector)</td>
<td>Primary Processing unit, Mehta Agro food product, Amalsad, Gandevi, Navsari</td>
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<td>2</td>
<td>Minimal Processing Unit (Private Sector)</td>
<td>Minimal Processing Unit M/s Prafulbhai R. Patel</td>
<td>6.00</td>
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<td>3</td>
<td>Primary Processing unit (Private Sector)</td>
<td>Primary Processing unit of Mango, Guava, Chiku and Banana by Deep Fresh Frozen Products, Gandevi, Navsari (Tribal)</td>
<td>7.99</td>
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<td>Patchouli Processing unit (Private Sector)</td>
<td>Patchouli Processing unit M/s Pranav Narendra Shethaji</td>
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<td>5</td>
<td>Refrigerated Van (Private Sector)</td>
<td>Refrigerated Van - Laxmi cold chain At. Tundi, Palsana, Surat</td>
<td>3.28</td>
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<td>6</td>
<td>Integrated project on pack (Private Sector)</td>
<td>Integrated project on pack House, Multi grading, packing centre and Ripening chambers of Banana, Krishna Bagayat Sahkari Mandali, Panetha,</td>
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<td>Apani Mandi/marketing (Private Sector)</td>
<td>Apani Mandi/ marketing infrastructure - Amalsad vibhag Vividh karyakari Khedut mandali , Amalsad</td>
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<td>9</td>
<td>Ripening chamber(Private Sector)</td>
<td>Mahavir Fruit Agency Plot No. D/204-205, Radhakrishna Raw House, Kamrej Char Rasta, At: Kholwad, Taluka: Kamrej, Dist.: Surat</td>
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<td>10</td>
<td>Ripening chamber(Private Sector)</td>
<td>Mother Shree Cold Storage Plot No. 49/50, Phase- II, B/H Jai hind Metals, GIDC, Naroda, Ahmedabad-382330</td>
<td>12.91</td>
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<td>11</td>
<td>Ripening chamber(Private Sector)</td>
<td>PALBRO International At: Tadkuva, Taluka: Vyara, Dist: Surat</td>
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<td>Ripening Chamber &amp; Integrated Cold Chain (Private Sector)</td>
<td>Shreeji Fruits &amp; Agro Food Processors, At-Pipodara GIDC, Ta. Mangrol, Dist.-Surat</td>
<td>Sanctio ned:11 1.76 Release d: 55.60</td>
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<tr>
<td>14</td>
<td>Ripening chamber(Private Sector)</td>
<td>Sardar Bagayat Sahkari Mandali Ltd., Sardar Baug, Station Road, Dist.-Surat</td>
<td>Sanctio ned:4.6 5 Release d 2.33</td>
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<td>Ripening Chamber &amp; Integrated Cold Chain</td>
<td>Mahavir Banana Ripening &amp; Cold Storage, At-Kamrej, Dist.-Surat</td>
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<td>16</td>
<td>Ripening chamber (Priv</td>
<td>Shakshi Banana Ripening Center, At-Asodar, Ta.-Anklav, Dist.-Anand</td>
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<td>Shiv Fruit Agencies, Lala Nagar, Rajpipla Chokdi, At-Ghadkhol, Tal.-</td>
<td>47.33</td>
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<td>Ankleshwar, Dist.-Bharuch</td>
<td>Released 23.50</td>
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<td>18</td>
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<td>Rajhans Food Products, At.-Pipodar, Ta. Mangarol, Dist.-Surat</td>
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