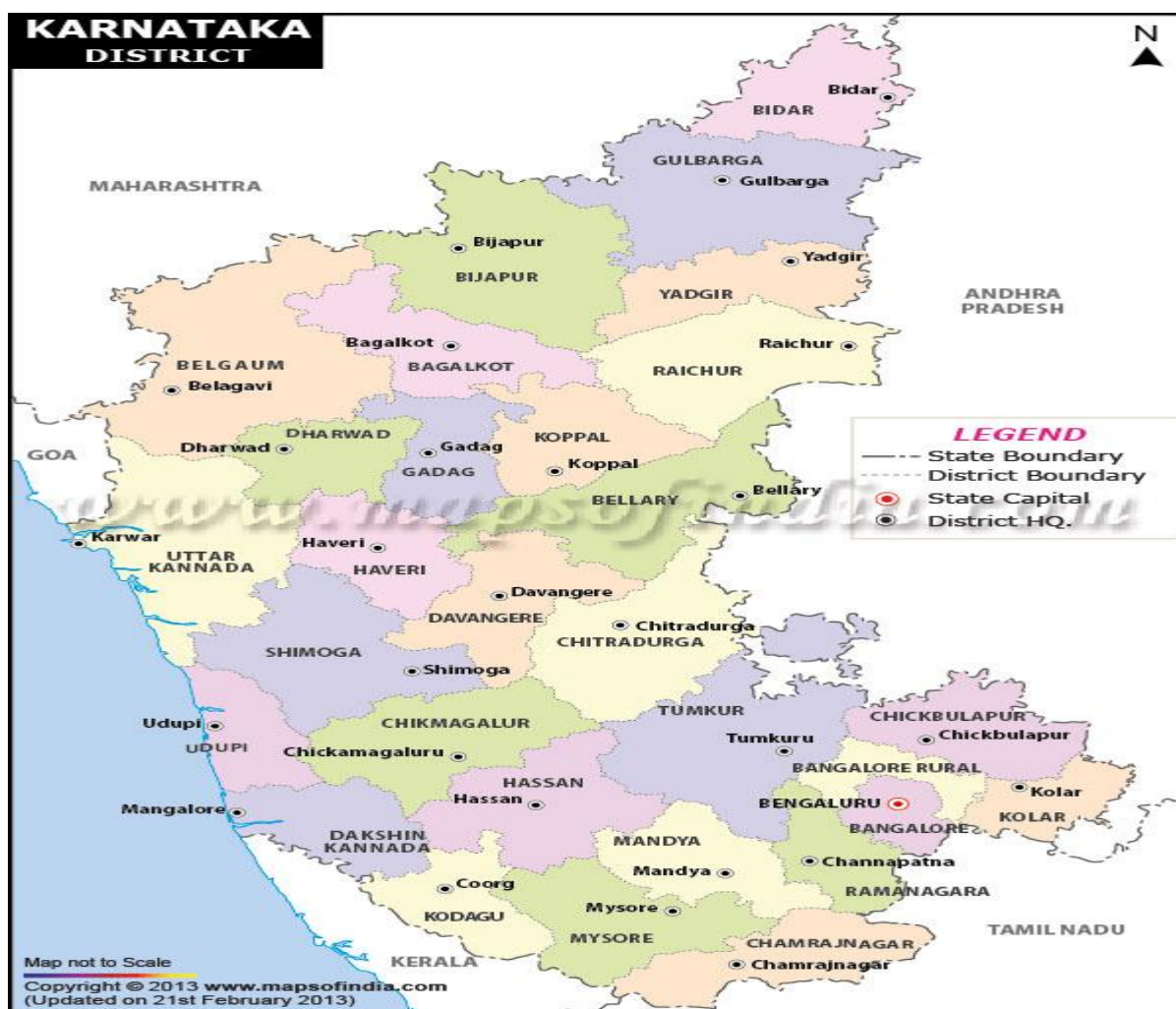


Joint Inspection Team (JIT) Report of Mission for Integrated Development Of Horticulture (MIDH) Scheme for Karnataka State

Karnataka State



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Team members:-

1. Dr. H.V.L. Bathla, Chief Consultant (NHM), DAC, MOA, GOI, New Delhi
2. Mrs. Sadhna Khanna, US(OFWM), DAC, MOA, GOI, New Delhi
3. Sh. Basavaraj, E.D. SHM Karnataka (State Representative)

Dates of Visit:-

10.06.2014 to 15.06.2014

General observations

1. Implementation of the MIDH has helped strengthen the horticulture sector in Karnataka. It has resulted in enhancing the income level of farmers, creating on and off farm employment opportunities, production of quality horticulture produce and has given a filip to strengthening the nutritional security of the public in general.
2. The Tissue Culture Lab established at Mysore Organic Farms Ltd. in private sector in Mysore district is doing good work and producing G-9 Banana planting material. The unit is being run by technically qualified persons. Encouraged by the progress and demand of planting material they are planning to increase the capacity of the lab.
3. Beneficiaries need to be trained in pruning and training of mango plants / trees.
4. Sign board with details of activity and NHM logo need to be displayed, wherever, not available.
5. In case of polyhouses, there should not be any gap in installation of doors and also there should be two doors for entrance instead of one.. Out of two doors only one should be opened at a time. This precaution will save the crop from attack of pests and diseases.
6. The wholesale vegetable market established in Mysore district was found to be in a very unsatisfactory condition. Moreover, hygiene standards left much to be desired. It requires immediate attention of the authorities to ensure that there is transparency in the auction system of commodities and proper handling of waste.
7. T C Banana clusters visited in district Mysore are well maintained.
8. Refresher courses need to be arranged for implementing officers.
9. In case of Biodigesters, the SHM need to prepare a success story and it should be supported with data and photographs.

State: Karnataka

Geography

Karnataka is located in the western half of the Deccan plateau. The State extends to about 750 km from north to south and about 400 km from east to west. It has four physiographic regions viz., Northern Karnataka Plateau (largely includes the Deccan Trap covering districts of Bidar, Belgaum, Gulbarga and Bijapur with elevation ranging between 300 to 600 meters), Central Karnataka Plateau (covers districts of Chitradurga, Raichur, Chikmagalur, Dharwad, Shimoga and Bellary i.e., Tungabadra region with an elevation between 450 to 700 meters), Southern Karnataka Plateau (includes districts of Bangalore, Hassan, Kodagu, Bangalore Rural, Mandya, Mysore, Kolar and Tumkur with elevation of the region is estimated to be 600 to 900 meters) and Karnataka Coastal Region (Western Ghats, edges of the Karnataka Plateau, covering Uttara Kannada and Dakshina Kannadadistricts).

Geographical details:

- **Area:** 190. Lakh ha.
- **Gross Cropped area:** 125.63 lakh ha.
- **Net cropped area:** 98.466 lakh ha.
- **Irrigated area:** 12.82lakh ha.
- **Area under Horticulture:** 19.82lakh ha.
- **Location:** 74° to 78° East longitude and 11° to 18° Northlatitude,
- **Boundaries:** Arabian sea to the West, Goa and Maharashtra in the North, Tamil Nadu and Kerala in the South and Andhra Pradesh to the East,
- **Population:** 6.10cores and with density of 275 per km² (2011 census),
- **Rate of Literacy:** 75%,
- **Number of Districts:** 30.

Climate

Karnataka state enjoys a salubrious climate throughout the year. Weather in the state is however dynamic and changes from place to place owing to its altitude, topography and its distance from the sea. It will be influenced by four major seasons such as winter season (December to February), the summer season

(March to May), monsoon season (June to September), and post-monsoon season (October to November).

The southwest monsoon accounts for almost 80% of the rainfall the state receives. The annual rainfall across the state ranges from 50 to 250 cm. The districts of Bijapur, Raichur, Bellary and Southern half of Gulbarga experience the lowest rainfall ranging from 50 to 60 cm, while the west coast region and Malnad enjoy the highest rainfall.

Soil and irrigation facility

Depending on the agricultural capability of the soil, the soil types in the state are divided into six types viz., red, lateritic, black, alluvial, forest and coastal soils.

Karnataka accounts for about 6% of the country's surface water resources. Around 60% of this is provided by the west flowing rivers, while the remaining comes from the east flowing rivers. There are 7 river basins all formed by the Godavari, Cauvery, Krishna, west-flowing rivers, South Pennar, and Palar.

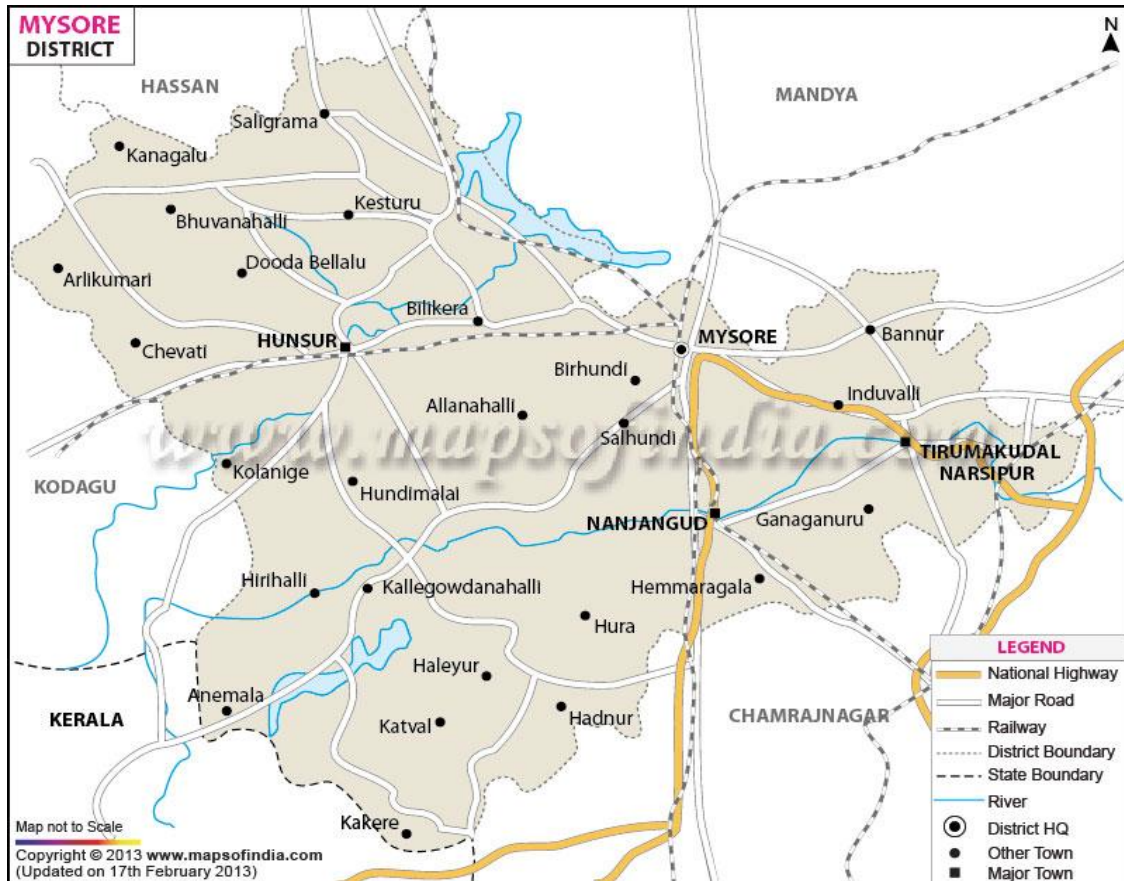
Potential of Horticulture in Karnataka:

Karnataka is regarded as the “Cafeteria of Horticultural Crops” given the suitability for cultivation of various horticultural crops. The current area and production of horticulture crops is estimated to be around 19.82 lakh hectares and 158.53 lakh tons respectively, with an average productivity of about 7.99 tons per hectare. There is a big scope to promote area under Horticulture crops and output mainly focusing on yield levels. Though the horticulture sector in the state has witnessed a phenomenal growth in the last five decades, there are abundant opportunities for further growth, especially in areas like productivity improvement, quality enhancement, hi-tech horticulture, protected cultivation, precision farming, etc. Horticulture sector is an important source of livelihood for as many as 12 lakh farming households in the state.

Karnataka state has an equal distribution of key horticultural crops such as major Fruits in about 3.71 lakh ha and Vegetables in 4.55 lakh ha. The area under major Spices is also significant at about 2.69 lakhs ha followed by flowers and Aromatic crops with about 0.29 and 0.018 lakh ha respectively. In terms of output, major Fruits & Vegetables accounts to 64.28 and 76.62 lakh tons, respectively.

Total income generation from horticulture sector is estimated at around Rs. 24,000 crores (40% of the combined agricultural income with only about 15% of area, which indicates the highly remunerative nature of hort crops). This can further be increased to about Rs. 30,000 crores per annum (the most “likely scenario 2” at constant price).

District: Mysore



Introduction

Mysore – the heritage city known worldwide for its famous Dasara festival and Ambavilas Palace lies geographically at 11° 7' to 12° 39' N latitude and at 75° 54' to 77° 07' East longitude and at an altitude of 769 mtr from MSL.

District Comprises of 7 talukas namely Mysore, Nanjangud, Krishna Raja Nagar, Heggada Devana Kote, Periyapatna, Hunsur, Thirumakudal Narasipura, 33 Hoblies and 235 grama panchayaths with a total geographically area of 6,76,382 hectares and a total population of 29,94,744 the main occupation of the district is Agriculture, Animal husbandry and Horticulture.

There is only one Agro-climatic zone in the entire district “Southern Dry zone” with an annual normal rainfall of 880 mm. The Soil types found are Red loamy soils, Black soils with slightly acidic P^H nature. Soils are found to be rich in potassium but deficient in Zinc and Boron.

Horticulture profile of the District:-

The total geographical of the district is 6,76,382 hectares out of which, 5,20,292 hectares is found to be cultivable. The net cultivated area is 3,37,967

hectares with Horticulture area of 56271.63 hectares i.e. 16.65 % net cultivated area.

Coconut is the predominant crop which covers 50% of the total Horticulture area of the District.

The other major crops grown in the district are:-

- 1) Fruits:- Mango, Banana, Sapota, Papaya
- 2) Vegetables: Tomato, Beans, water melon, gourds, Ladies finger, Chilli, cucumber, Cluster Beans, Green leafy vegetables etc.
- 3) Plantation crops: Coconut, Very little of Arecanut and Cocoa
- 4) Spices: Ginger, Turmeric
- 5) Flowers: Marigold, Chrysanthemum, Tuberose, Rose (cultivated mainly for loose flowers only).

As per the statistical data, the total area under Horticulture in 2005-06 was 33238 ha with a production of 247376.21 tonnes and in 2011-12 the area under Horticulture has increased to 56272 ha with the production of 459158.88 tonnes i.e an increase of 23034 ha area (60.34%) with production increase of 211779.67 tones (86%).

Field Visit

Beneficiary No.1

Tissue culture lab

Sr. No.	Details	Remarks
1.	Name of the project:	Tissue Culture lab
2.	Year of Implementation :	2013-14
3.	Project Period:	
4.	Name of Implementing Agency:	Mysore Organic Farms Private Ltd
5.	Location of project:	No, 317/207, SNo 87/4 Lingabudi playa, Mysore
6.	Total project cost:	Rs. 79.37 Lakhs
7.	Amount Released by DAC:	Rs. 25 Lakhs
8.	Expenditure incurred:	
9.	Status of project:	
	• Name of Nursery and crops for which plants are produced:	Banana
	• Name of the crops for which seeds produced:	G 9

	• Quantity produced:	1000000 plants
	• Quantity sold:	860000 plants
	• Rate:	Net pot Rs.5.75 paisa poly bag Rs.12.00
	• Amount realizes through sale:	Rs. 65.00 Lakhs
	• Whether NHM logo displayed:	Yes

Observations:

1. The Tissue Culture lab has capacity of producing 10 lakh plants per annum and has produced 8.5 lakh plants during 2013-14.
2. After primary hardening of plants, these are being sent to Gujarat state also.
3. In view of demand, they are also planning to increase the capacity of the lab.



Mysore Organics Farm Ltd, Lingambudipalya, Mysore JIT Visit:11-06-2014

Beneficiary No. 2

Markets (J.I.T.)

(Rural/Wholesale/Allied infrastructure]

Sr. No.	Details	Remarks
1.	Name of the project:	Whole sale Vegetable market
2.	Year of Implementation :	2008-09
3.	Project Period:	
4.	Name of Implementing Agency:	Department of Agricultural marketing
5.	Location of project:	APMC, Bandipalya, Mysore
6.	Total project cost:	Rs. 1045 Lakh

7.	Amount Released by DAC:	Rs. 255 Lakh
8.	Expenditure incurred:	Rs. 2048.81 Lakh
9.	Status of project:	
	• Size of market in terms of Area	8.2 acre
	• Facilities created	<ol style="list-style-type: none"> 1. 144 shops for traders 2. 6 nos Closed plat form 3. Roads and gutter 4. 2 bathroom 5. RCC overhead tank and water facility 6. Office and Information centre 7. Street light and electrification 8. UGD
	• Commodities sold	Vegetables
	• Approachability	Easily accessible by road
	• Condition of market	
	• Whether funds disbursed to Agency	yes

Observations:

1. The market is constructed as per the approved plan.
2. The Stalls in the market have been allotted as per Karnataka Agricultural produce marketing yard allotment rules 2004 on lease come sale basis
3. Farmers produce (vegetables) is marketed based on the quantity of arrivals. Large quantities are auctioned & smaller quantities are sold through mutual negotiations.
4. For the convenience of the farmers 144 shops, 6 auction platforms, toilets, canteen, drinking water facility, information kiosk, electronic weighing machine etc., facilities have been provided.
5. Waste management in the market yard has been out sourced to private agency at monthly rate of Rs.69900.
6. The waste management is not proper and all along it looks unhygienic.



Wholesale market, APMC, Bandidipalya, Mysore

JIT Visit:11-06-2014



Beneficiary No. 3

BANANA CLUSTER DETAILS OF NANJANGUD TALUK

District	:	Mysore
Name of the Taluk	:	Nanjangud
Village	:	Duggahalli
Name of the Cluster	:	
Year of Implementation	:	2013-14
Number of village covered	:	10
Number farmers in the cluster	:	81
Area	:	41.2 ha

Convergence of schemes	:	Comprehensive Horticulture Development under State scheme & NMMI
Subsidy Pattern	:	CHD- Gen farmers 40% of the
cost,		maximum of Rs.110924/ha
		SF/MF Farmer 50% of the
cost,		maximum of Rs.138655/ha
		SC/ST Farmers 90% of
the cost,		maximum of Rs.249570/ha
of		NMMI- 90% of the cost maximum
		Rs.28454/ha

Observations:

1. This is T C Banana cluster having 81 farmers with an area of 41.2 hactares.
2. This is high density plantation (2x1.5 m) i.e. 1333 plants per acre.
3. This was planted during September, 2013 and stand of the crop is good.



Banana Cluster at Duggahalli village, Nanjangud Taluk, JIT Visit:11-06-2014



Beneficiary No. 4

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Shantha murthy S/o Siddappa Duggahalli
2	Total land available with the beneficiary (ha).	1.63 Ha
3	Crop Cluster under which covered.	CHD , Banana, 0.60ha
4	Name & variety of crop planted.	Banana G9
5	Source of planting material.	Jain Irrigation System
6	Number of plants planted	2000
7	Date of Planting	10-09-2013
8	Number of plants which survived	100%

	(also indicate percentage survival).	
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 83334.00
10	Amount paid and date of payment.	Rs.39145 on 27-11-2013, Rs.33366 on 21-03-2014,
11	Mode of payment.	Cheque paid to individual beneficiary
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Drip
13.	Whether Drip/ Sprinkle System in use.	Yes
14.	Other inputs provided.	No
15.	Whether assistance available for Organic Farming	No
16	If so, area covered	No
17.	Assistance availabed	No
18.	Available marketing facility for the crop.	Hopcoms, Reliance
19.	Other infrastructure available in the vicinity.	
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	
21.	Any other relevant observation by the JIT.	

Beneficiary No. 5

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Ramarajeurs s/o Premammanni Madapura, Hullahalli (Hobli)
2	Total land available with the beneficiary (ha).	0.68Ha
3	Crop Cluster under which covered.	CHD , Banana, 0.40ha
4	Name & variety of crop planted.	Banana Ga

5	Source of planting material.	Mysore organic Farm
6	Number of plants planted	1333
7	Date of Planting	30/09/13
8	Number of plants which survived (also indicate percentage survival).	1333 (100%)
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 55456-00
10	Amount paid and date of payment.	Rs. 26097 .00 on 27/11/2013 Rs. 22244 .00 on 20/03/2013 Rs. 7115 .00 on 15-05-2014
11	Mode of payment.	Cheque paid
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Drip irrigation
13.	Whether Drip/ Sprinkle System in use.	Yes
14.	Other inputs provided.	
15.	Whether assistance available for Organic Farming	No
16	If so, area covered	
17.	Assistance availabed	
18.	Available marketing facility for the crop.	Hopcoms, Reliance, Bharti wal mart safal
19.	Other infrastructure available in the vicinity.	
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very good
21.	Any other relevant observation by the JIT.	

Beneficiary No. 6

Nursery/Vegetable seed production/seed Infrastructure (JIT)

Farmer Name:-Krishne Gowda s/o Made Gowda

Village: Halepure

Sy No: 66/1

Area: 1000sqmts

Sr. No.	Details	Remarks
1.	Name of the project:	Poly House Tubular Structure
2.	Year of Templementation :	2013-14

3.	Project Period:	15 Years
4.	Name of Implementing Agency:	Farmer
5.	Location of project:	Halepura Village, Kasaba Hobli, Hunsur Taluk
6.	Total project cost:	16,00,000=00
7.	Amount Released by DAC:	4,22,600=00
8.	Expenditure incurred:	10,00,000=00
9.	Status of project:	Good
	• Name of Nursery and crops for which plants are produced:	Hybrid Vegetable Seedling Production
	• Name of the crops for which seeds produced:	Pumpkin, Chilli, Tomato, Melons
	• Quantity produced:	4,00,000 seedlings
	• Quantity sold:	3,50,000 seedlings
	• Rate:	0.32ps/Seedlings
	• Amount realized through sale:	1,12,000=00
	• Whether NHM logo displayed:	Yes

Beneficiary No. 7

Nursery/Vegetable seed production/seed Infrastructure (JIT) Vegetable Production

Farmer Name:-Sannahaidashetty

Village: Tippur, Bilikere, Hunsur

Sy No:

Area: 1440sqmts

Sr. No.	Details	Remarks
1.	Name of the project:	Poly House Tubular Structure
2.	Year of Templementation :	2012-13
3.	Project Period:	15 Years
4.	Name of Implementing Agency:	Farmer
5.	Location of project:	Tippur Village, Bilikere Hobli, Hunsur Taluk
6.	Total project cost:	13,67,000=00
7.	Amount Released by DAC:	6,72,000=00
8.	Expenditure incurred:	13,17,000=00

9.	Status of project:	Good
	• Name of the crop	Production of color capsicum
	• Quantity produced:	8 tones
	• Quantity sold:	8 tones
	• Rate:	Rs.18/ K.g
	• Amount realizes through sale:	Rs.1,44,000=00
	• Whether NHM logo displayed:	Yes

Observations:

1. The installation of polyhouse gate is not proper as there is lot of gap.
2. There is only one gate and Joint Inspection team advised to have two gates to avoid any pest and disease attack.

Beneficiary No. 8

Nursery/Vegetable seed production/seed Infrastructure (JIT)

Farmer Name:- Gayithri w/o Somashekar

Village: Thippur

Area: 1600 sqmts

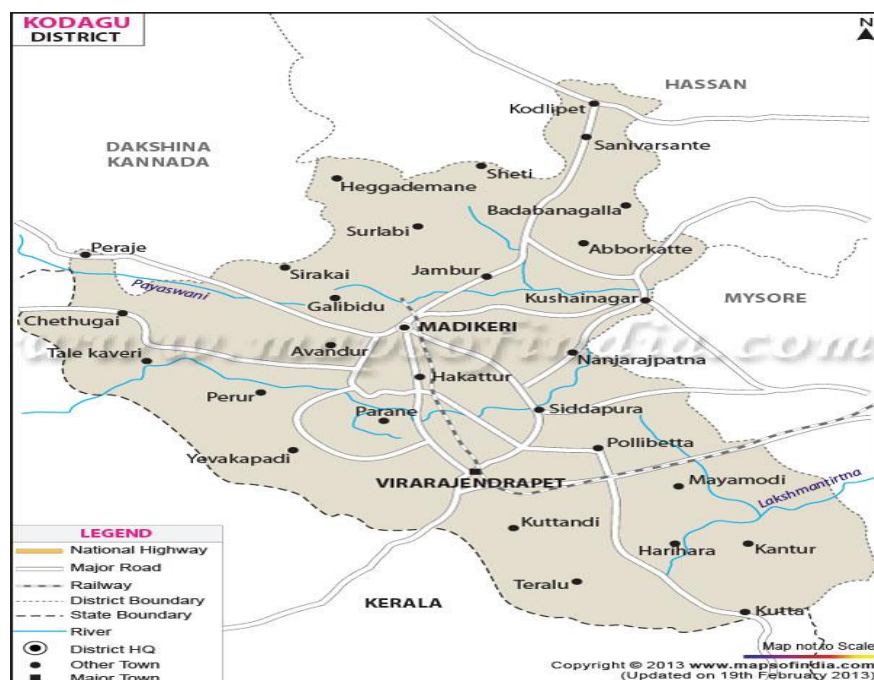
Sr. No.	Details	Remarks
1.	Name of the project:	Poly House Tubular Structure
2.	Year of Templementation :	2013-14
3.	Project Period:	18 years
4.	Name of Implementing Agency:	Farmer
5.	Location of project:	Thippur Village,Bilikere Hobli, Hunsur Taluk
6.	Total project cost:	26,00,000=00
7.	Amount Released by DAC:	8,97,600=00
8.	Expenditure incurred:	18,50,000=00
9.	Status of project:	
	• Name of Nursery and crops for which plants are produced:	Capsicum

	• Name of the crops for which seeds produced:	-
	• Quantity produced:	-
	• Quantity sold:	Just Initiated
	• Rate:	-
	• Amount realizes through sale:	-
	• Whether NHM logo displayed:	Yes



**Gayithri w/o Somashekar Thippur Village, Bilikere Hobli, Hunsur Taluk
JIT Visit:12-06-2014**

District: Kodagu



Introduction

Kodagu is the 2nd smallest District of Karnataka State comprising of only three Taluks. These are Madikeri, Virajpet and Somavarpet. The district extends up to 96km from north to south and 64 km from east to west. It is one of the important Horticultural districts of the state. The important Horticulture crops of the District are Coffee, Pepper, Cardamom, Ginger, Arecanut, Cocoa, Anthurium etc. Among fruit crops orange, banana and sapota are important ones. Out of **1,69,922**ha. of net area sown Horticulture crops constitute **33,633** ha. that is 21% of the net area sown.

The rainfall, ideal soil, climatic conditions, physical features and other factors are suitable for growing Horticulture crops in Kodagu district. In recent days farmers are showing interest in the cultivation of flowers and foliages, Oil palm cultivation is gradually gaining more importance in Kodagu District.

Department of Horticulture has a full fledged office at Madikeri under the charge of Deputy Director of Horticulture with its office and Horticulture farms in each taluk. The Senior Assistant Director of Horticulture/Assistant Director of Horticulture work as taluk level officers under Deputy Director of Horticulture. Each taluk constitutes Hobliwise Assistant Horticulture Officers, 2-3 Horticulture Assistants and 4-5 Gardeners assisting Senior Assistant Director of Horticulture/Assistant Director of Horticulture in carrying out the implementation works.

The Department provides exclusive support towards consultancy services, incentives & quality planting materials to undertake promotional activities and to propagate Horticulture crops.

Total area

Sl.no.	General Detail	Numbers
1	Total geographical area in Hectares	
	a) Madikeri taluk	145045 ha
	b) Virajpet taluk	165731 ha
	c) Somavarpet taluk	99999 ha
	Total	410775 ha
2	Net sown area in hectares	
	a) Madikeri taluk	50401 ha
	b) Virajpet taluk	73390 ha
	c) Somavarpet taluk	46131 ha
	Total	169922 ha

3) Important Horticulture crops

Sl.no.	Crops	Area (Ha)
1	Pepper	10857 ha
2	Cardamom	8325 ha

3	Areca nut	3876 ha
4	Ginger	1297 ha
5	Cashew nut	1975 ha
6	Banana	1967 ha
7	Coconut	1602 ha
8	Orange	1450 ha
9	Oilpalm	650 ha
10	Total vegetables	437 ha
11	Cocoa	146 ha
12	Anthurium flowers	25 ha
13	Other Horticulture Crops	1016 ha
	Total	33623 ha.

NHM Activities

Production of planting material(RKVY) AEP Banana



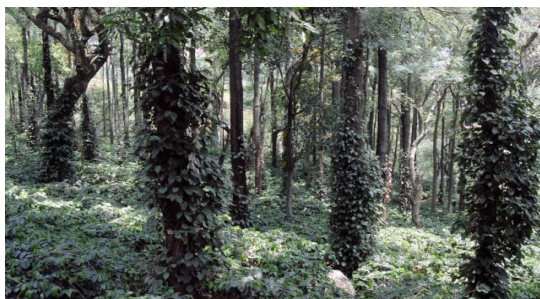
Banana Suckers --- 80 Ha Var – Nendran, Yellakki Banana Plants produced – Pepper, 450000 2012-13 Orange, 140285

AEP Orange



AEP Coorg Mandarin --- 229 Ha Coorg mandarin Inter crop in coffee estate

AEP Pepper AEP Cocoa



AEP Pepper --- 196 Ha
Var – Panniyur -1

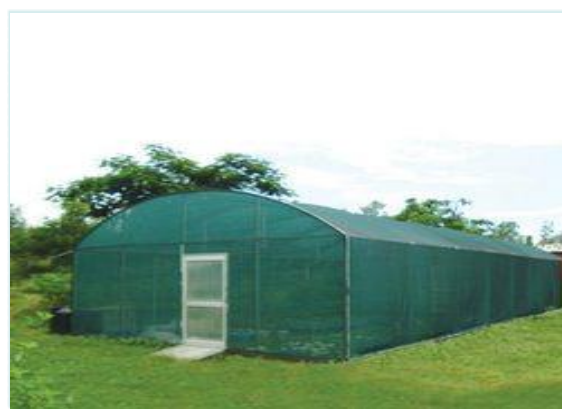


AEP Cocoa --- 2 Ha
Var – F-1 Hybrid

Protected Cultivation



Green house 1 units



Shade net house 4 units

Field Visit

Beneficiary No.1

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Dayananda M.K S/o Karumbaiah, Kadagadalu Village, Madikeri.
2	Total land available with the beneficiary (ha).	27/3, 0.50 Acre.
3	Crop Cluster under which covered.	Black pepper, 0.20 ha
4	Name & variety of crop planted.	Panniyur-1
5	Source of planting material.	Departmental Nursery Napokly
6	Number of planting material.	250
7	Number of plants planted/ rejuvenated.	10/09/2013

8	Date of plants which survived (also indicate percentage survival).	100%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	-
10	Amount paid and date of payment.	4000.00
11	Mode of payment.	Through NEFT
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Tank
13.	Whether Drip/ Sprinkle System in use.	Sprinkler
14.	Other inputs provided.	-
15.	Whether assistance available for Organic Farming	-
16	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop.	Local market
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very good
21.	Any other relevant observation by the JIT.	

Observations:

1. The stand of black pepper vines is good.
2. The beneficiaries are happy as there is no marketing problem for black pepper.

Beneficiary No.2

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Dayananda M.K S/o Karumbaiah, Kadagadalu Village, Madikeri.
2	Total land available with the beneficiary (ha).	27/3, 1.00 Acre.
3	Crop Cluster under which covered.	Banana, 0.04 ha
4	Name & variety of crop planted.	Banana, Nendra

5	Source of planting material.	Local (From kerala also)
6	Number of planting material.	1000
7	Number of plants planted/ rejuvenated.	10/09/2013
8	Date of plants which survived (also indicate percentage survival).	100%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	-
10	Amount paid and date of payment.	6750.00
11	Mode of payment.	Through NEFT
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Tank
13.	Whether Drip/ Sprinkle System in use.	Sprinkler
14.	Other inputs provided.	-
15.	Whether assistance available for Organic Farming	-
16	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop.	Local market
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very good
21.	Any other relevant observation by the JIT.	

Beneficiary No.3

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Saraswathi S/o Subramanya, Kodagadalu Village, Madikeri.
2	Total land available with the beneficiary (ha).	236/11, 0.4 ha
3	Crop Cluster under which covered.	Orange , 0.04 ha

4	Name & variety of crop planted.	Orange
5	Source of planting material.	CCORG MANDARIN
6	Number of plants Planted	110
7	Date of planting	2013-14
8	Number of plants which survived (Also indicate percentage survival)	100%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	4000.00
10	Amount paid and date of payment.	6000.00
11	Mode of payment.	Through NEFT
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Tank
13.	Whether Drip/ Sprinkle System in use.	Sprinkler
14.	Other inputs provided.	-
15.	Whether assistance available for Organic Farming	-
16	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop.	Local market
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very good
21.	Any other relevant observation by the JIT.	

Beneficiary No.4

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Ganapathi B.M. S/o Medappa B.W, , Kadagadalu Village, Madikeri.
2	Total land available with the beneficiary (ha).	317/4, 0.40 Ha.

3	Crop Cluster under which covered.	Orange
4	Name & variety of crop planted.	COORG MANDARIN
5	Source of planting material.	Departmental Nursery Napoklu
6	Number of planting material.	110
7	Date of planting	2013-14
8	Number of plants which survived (also indicate percentage survival).	100%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	4000.00
10	Amount paid and date of payment.	6000.00
11	Mode of payment.	ECS
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Tank
13.	Whether Drip/ Sprinkle System in use.	Sprinkler
14.	Other inputs provided.	-
15.	Whether assistance available for Organic Farming	-
16	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop.	Local marketing
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	
21.	Any other relevant observation by the JIT.	

Beneficiary No.5

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Sunitha Thammaiah Kadagadalu Village, Madikeri.

2	Total land available with the beneficiary (ha).	15/3p1, 15/3p2, 15/2p2, 15/1p2. 53/6,2 16/p
3	Crop Cluster under which covered.	2.00 ha
4	Name & variety of crop planted.	Banana Nendran
5	Source of planting material.	Local (Far, \m Kerala also)
6	Number of plants planted	5000
7	Date of planting	2013-14 (Sept.)
8	Number of plants which survived (also indicate percentage survival).	100%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	
10	Amount paid and date of payment.	33750.00
11	Mode of payment.	ECS-NEFT
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Gravity/Tank
13.	Whether Drip/ Sprinkle System in use.	Sprinkler
14.	Other inputs provided.	-
15.	Whether assistance available for Organic Farming	-
16	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop.	Kerala Market
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	
21.	Any other relevant observation by the JIT.	

Beneficiary No.6

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field	Kaveramma B.L. w/o Lingappa

	visited.	Kadagadalu Village, Madikeri.
2	Total land available with the beneficiary (ha).	202/32, 0.20 ha.
3	Crop Cluster under which covered.	0.20 ha
4	Name & variety of crop planted.	Black pepper, panniyur-1
5	Source of planting material.	Dept. Nursery, Napoklu
6	Number of plants planted	250
7	Date of planting	10/09/2013
8	Number of plants which survived (also indicate percentage survival).	
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	
10	Amount paid and date of payment.	4000.00
11	Mode of payment.	ECS-through NEFT
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Tank
13.	Whether Drip/ Sprinkle System in use.	Sprinkler
14.	Other inputs provided.	-
15.	Whether assistance available for Organic Farming	-
16	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop.	Local Market
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	
21.	Any other relevant observation by the JIT.	

Observations:

1. The beneficiaries number 2 to 6 pertain to area expansion of Banana, Orange and Black pepper.
2. The crops stands of Banana crop (Beneficiary No. 2 & 5), orange crop

- (Beneficiary No. 3 &4) and Black Pepper (Beneficiary No. 6) is good.
3. The beneficiaries are satisfied with the planting material supplied by the department for these crops.
 4. The mortality is negligible.

Beneficiary No.7

Beekeeping)

Sr. No.	Details	Remarks
1.	Name of the project:	Anusuya Naik w/o Vasudeva Naik, Thannimani, Madikeri.
2.	Year of Tmplementation :	2013-14 (Nov)
3.	Project Period:	-
4.	Name of Implementing Agency:	-
5.	Location of project:	Thannimani, Madikeri, Survey No.10/72
6.	Total project cost:	21000.00
7.	Amount Released by DAC:	10500.00
8.	Expenditure incurred:	10500.00
9.	Status of project:	Completed
	• Name of Nursery and crops for which plants are produced:	Bee Colony -7
	• Name of the crops for which seeds produced:	Bee Box -7
	• Quantity produced:	
	• Quantity sold:	
	• Rate:	
	• Amount realizes through sale:	
	• Whether NHM logo displayed:	

District: Dakshin Kannada

Introduction

Geography

The district Dakshina Kannada is situated on the west coast of India, about half way between Mumbai and Cape Comorian. From North to South, it is a long narrow strip of territory and from east to west; it is a broken low plateau which spreads from the Western Ghats to the Arabian Sea known in Kannada as Paschima Samudra. The major part of its length lies along the seaboard. The area is intersected by many rivers and streams and presents varied and most picturesque scenery. Abundant vegetation, extensive forests, numerous groves of coconut palms along the coast and rice fields and plantations in every valley provide refreshing greenness to the prospect. It is a most densely inhabited tract.

Geographically, the Dakshina Kannada region is separated from the rest of the south Indian peninsula by the towering heights of the Western Ghats. It spreads from the eastern Ghats towards the sea on the west. The length of the coastline, which is almost straight, but broken at numerous points by rivers, rivulets, creeks and bays. The district lies between 12° 27' and 13° 58' north of north latitude, and 74° 35' and 75° 40' east longitude. It is about 42 Km in length, about 40 Kms broad at its narrowest and about 80 Kms at its widest part.

The district is bounded on the north by the Udupi district, on the east by the district of Chikmagalore, Hassan and Coorg, on South by the Kasaragod Taluk of Kerala State and on west by the Arabian Sea.

The Geographical area of the district is 4859 sq. Kilometers. The population of the district, according to the 2011 census, was 2089649. A special feature of the district's population has been that it has more females than males.

Block wise area and population

The district of Dakshina Kannada has 5 taluks and 2 revenue subdivisions as follows.

Mangalooru and Bantwala

: Mangalore Sub division

Puttur , Sullia, Belthangadi : Puttur Subdivision

The five taluks have been further subdivided into revenue circle or Hoblies. At present there are 17 Hoblies under which there are 354 inhabited villages. The district has 20 towns/urban agglomerations and 8 Municipalities and town Panchayaths. There are 203 Grama Panchayats, under the Panchayat raj system.

Taluks	Hoblies	Grama panchayats	Inhabited Villages	Towns	Municipalities/ Towns
Bantwal	3	47	79	3	1
Belthangady	3	43	80	1	1
Mangalore	6	49	88	14	4
Puttur	3	37	67	1	1
Sullia	2	27	40	1	1
Total:	17	203	354	20	8

Rivers:

On account of the situation of these Ghats on the eastern part of the district, the rivers of Dakshina Kannada necessarily flow from east to west. During the monsoon, all the rivers and streams swell due to heavy rains and some of them overflow their banks, mandating the surrounding areas. But they retrieve to their normal positions within a short period. Among the principle rivers of the district may be mentioned the Nethravathi, Gurpur, Gangolli.

Rainfall:

The main rainy season is from June to September. The normal annual rainfall in the district is 3912 millimeters. The rainfall increases from the coast towards the Western Ghats on the eastern boarder of the district. About 87% of the annual rainfall is received during the south west monsoon season. July is the month with the heaviest rainfall. Among the 5 taluks, Belthangadi received highest rainfall, followed by Sullia and Puttur. The actual rainfall average during the year 2007 was 4072 mm on an average on 126 days in a year the district gets rainfall.

Soil and Climate:

The soil of the district is of red laterite characterized by high iron and aluminum content. This variety usually occurs in heavy rainfall zones with an annual precipitation of over 3000 Hm. This laterite type of soil is suitable for paddy, sugarcane and most of the plantation and spice crops. The soil reaction tends to be on the acidic side with a pH of 5.5 to 6. Wide application of lime is necessary to neutralize the acidic properties of soil and to provide suitable conditions for good growth of crops.

The climate of the district is marked by heavy rainfall, high humidity and oppressive weather in the hot season. The year may be divided into four seasons. The hot season is from March to May followed by south west monsoon season, from June to September. October and November constitute post monsoon season and December to February maybe called the north east monsoon season although this season is generally dry.

The south west monsoon season is the coolest part of the year. April and May can be considered to be the hottest months of the year as both the day and night temperature is higher.

Normal of temperature at Mangalore is mean daily maximum temperature of 31 C and mean daily minimum temperature of 23.6 C.

The air is highly humid all through the year and particularly in the south west monsoon months. The mean annual relative humidity is 75 to 79%.

Irrigation: There are no extensive or major irrigation works in the district. The total net area irrigated is 72607 ha. Out of it 40587 ha is irrigated through wells, 9646 ha through Bore wells and 129 ha through lift irrigation. Drip, Sprinkler and flood irrigation are the most popular methods of irrigation followed to irrigate agriculture and horticulture crops. All horticulture crops except Cashew is under Irrigation

HORTICULTURE SENARIO:

Out of 130999 ha of net Agriculture area, Horticulture crop area in the district is 107028 ha. This accounts 81% to the total sown area.

	Taluka	Area(Ha)	Production(MT)
1	Mangalore	9938	35855
2	Bantwal	18709	47298
3	Puttur	26537	49184
4	Sullia	21379	38874
5	Belthangadi	30464	71391
	Total	107028	242602

	Crops	Area(Ha)	Production(MT)
1	Fruit crops	6372	129173
2	Vegetable crops	2086	19417
3	Spice crops	3182	8117
4	Plantation crops	95134	85128
5	Medicinal and aromatic	35	10.7
6	Flower crops	135	475
	Total	107028	242602

The major commercial crop under cultivation is Arecanut. Paddy lands were converted into Areca plantation due to the increase of rate for chali Areca and due to scarcity of labor. Cocoa, Pepper and Vanilla are cultivated as intercrops under Areca nut coconut plantations. Cashew and Rubber is cultivated mainly in waste land and hilly areas. Since 2007-08 due to the high demand and rate for Rubber farmers are going for rubber crop. Cashew is replaced by rubber. The major cashew growing area is under the control of K.C.D.C. Cashew is the major dollar earner crop of district. Pepper is leading spice crop, whereas pineapple and Banana are important fruit crops cultivated commercially.

Area and Production of Major crops

Crop	Total	
Crop	Area (Ha)	Production (MT)
Coconut lakh Nuts	17107	1166
Areca nut	31424	42754
Cashew	32756	21062
Banana	3286	80054
Pineapple	356	11558
Pepper	2168	791
Nutmeg	48	28
Cocoa	1131	10661

Cold Storages

At present, there is only one cold storage which was established in 2007 for storage of horticulture /agriculture produce.

Processing Units

Cashew-10, Coconut-19, Fruit Juice-21, Pickles-14, Supary-15, Sweetened Products-5, Vegetables and others-3, Vanilla-02, Cocoa-01

Existing Market Details

Taluka	Places
Mangalore city	5
Mangalore	5
Bantwala	3
Puttur	5
Sullya	4
Belthangady	4

Field Visit

Beneficiary No.1

(Pack House/Cold storage/CA storage/Ref. Van/Primary /Mobile Processing Units)

Sr. No.	Details	Remarks
1.	Name of the project:	Establishment of Hemavathi Cashews industry by Mr. Gopalkrishna K at Survey no. 2/2 Nellur Kemraje villge, Sullia taluka
2.	Year of Implementation :	2013-14
3.	Project Period:	1 Year
4.	Name of Implementing Agency:	Horticulture Dept
5.	Location of project:	Survey no. 2/2 Nellur Kemraje villge, Sullia taluka
6.	Total project cost:	142.00 Lakhs
7.	Amount Released by DAC:	9.6 Lakhs
8.	Expenditure incurred:	9.6 Lakhs
9.	Status of project:	
	• Capacity of unit	1 Ton /day
	• Commodity	Cashew Nut
	• Condition of infrastructure	Good
	• Whether NHM logo displayed	Yes
	• Whether funds disbursed	Yes

Field Visit

Beneficiary No. 2

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Sri Jeevandar Kumar, Badagayedapadvu.

2	Total land available with the beneficiary (ha).	2.03
3	Crop Cluster under which covered.	RKVY
4	Name of the machine purchased machine.	Arecanut dehusking machine
5	Total amount of subsidy assistance due to the beneficiary as (Rs.)	45,000/-
6	Amount paid and date of payment.	2012-13
7	Mode of payment.	Cheque
8	Source of planting material.	Well
9	Whether Drip/ Sprinkle System in use.	Yes, Drip
10	Other inputs provided.	No
11	Whether assistance available for Organic Farming	No
12	If so, area covered	No
13	Assistance available	No
14	Available marketing facility for the crop.	-
15	Other infrastructure available in the vicinity.	No
16	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
17	Any other relevant observation by the JIT.	-
18	Whether NHM logo displayed	Yes

Beneficiary No. 3

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Sri Parveen kumar, Kuppepadavu
2	Total land available with the beneficiary (ha).	0.75
3	Crop Cluster under which covered.	Drip irrigation in Arecanut
4	Name & variety of crop planted.	Arecanut

5	Source of planting material.	Local
6	Number of plats planted	1027 plants
7	Date of plants planted	2 to 10 years
8	Number of plants which survived (Also indicate percentage survival)	100%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	RS. 32888/-
10	Amount paid and date of payment.	2013-14
11	Mode of payment.	ECS
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Borewell
13.	Whether Drip/ Sprinkle System in use.	Yes, Drip
14.	Other inputs provided.	No
15.	Whether assistance available for Organic Farming	No
16	If so, area covered	No
17.	Assistance available	No
18.	Available marketing facility for the crop.	Local Market
19.	Other infrastructure available in the vicinity.	No.
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	-

Beneficiary No. 4

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Kamala Padival Thenkayedapadvu
2	Total land available with the beneficiary (ha).	1.101
3	Crop Cluster under which covered.	Pineapple

4	Name & variety of crop planted.	Queen
5	Source of planting material.	From farmer karkala
6	Number of plats planted	35782 plants
7	Date of plants planted	July 2013
8	Number of plants which survived (Also indicate percentage survival)	98%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	RS. 26813/-
10	Amount paid and date of payment.	RS. 26813.00, 2013-14
11	Mode of payment.	ECS
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	well
13.	Whether Drip/ Sprinkle System in use.	Yes, Sprinkler
14.	Other inputs provided.	No
15.	Whether assistance available for Organic Farming	No
16	If so, area covered	No
17.	Assistance available	No
18.	Available marketing facility for the crop.	Local Market
19.	Other infrastructure available in the vicinity.	No.
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	-

Beneficiary No. 5

(Pack House/Cold storage/CA storage/Ref. Van/Primary /Mobile Processing Units)

Sr. No.	Details	Remarks
1.	Name of the project:	Cashew Processing Industries
2.	Year of Implementation :	2013-14
3.	Project Period:	One year

4.	Name of Implementing Agency:	Kamath Agro Industries
5.	Location of project:	Mudabidre
6.	Total project cost:	29.61 Lakhs
7.	Amount Released by DAC:	8.03 Lakhs
8.	Expenditure incurred:	29.61 Lakhs
9.	Status of project:	Working
	• Capacity of unit	383.25 Sq.m.
	• Commodity	Cashew Kernals
	• Condition of infrastructure	Good
	• Whether NHM logo displayed	Yes
	• Whether funds disbursed	Yes

Beneficiary No. 6

Sr. No.	Details	Remarks
1.	Name of the project:	Pollination support through Bee keeping
2.	Year of Implementation :	2013-14
3.	Project Period:	2013-14
4.	Name of Implementing Agency:	Department Of Horticulture
5.	Location of project:	Ganesh Prabhu S/o Sanjeeva Prabhu , Bavanthabettu House Panjikal village, Bantwal Taluk
6.	Total project cost:	60000.00
7.	Amount Released by DAC:	30000.00
8.	Expenditure incurred:	60000.00
9.	Status of project:	Good
	• Name of Crop	Areca, Banana, Coconut, Jack, Vegetables etc...
	• Technology adopted	Honey Bee rearing
	• Whether location easily approachable	Yes
	• Whether NHM logo displayed	Yes

Beneficiary No. 7

Sr. No.	Details	Remarks
1.	Name of the project:	Bio Digester
2.	Year of Implementation :	2013-14
3.	Project Period:	October
4.	Name of Implementing Agency:	Department Of Horticulture
5.	Location of project:	Ganesh Prabhu S/o Sanjeeva Prabhu , Bavanthabettu House Panjikal village, Bantwal Taluk
6.	Total project cost:	60000.00
7.	Amount Released by DAC:	11829.00
8.	Expenditure incurred:	60000.00
9.	Status of project:	Good
	• Crop covered	Areca, Banana,coconut,Jack, Vegetables etc...
	• No. of farmers involved	1 (Ganesh prabhu S/o Sanjeeva Prabhu , Bavanthabettu House Panjikal village, Bantwal Taluk
	• Name & Address of Certifying Agency	-
	• Whether any certificate issued	-
10.	Whether funds disbursed	Yes

Dakshin Kannada District Photographs



Cashew: 50 Ha, 6.0 Lakhs
Lakhs



Banana Suckers (Nendran): 50.0 Ha, Rs 8.46



Hortnet Implementation Note

District: Dakshina Kannada

Year: 2013-14

Totally 748 applications are registered under Hortnet.

Scheme filling is done for 181

Approved by district level officer 236

Counseling is done for 7 applications

Year: 2014-15

Processing is made compulsory

Training is done to all taluka level officers, hobli level officers, computer operators

Till date 45 applications are registered

100% end to end processing of applications will be done through Hortnet during 2014-15



GOVERNMENT OF KARNATAKA

Department of Horticulture



KARNATAKA STATE HORTICULTURE MISSION AGENCY (R)

Office of the Mission Director
Lalbagh, Bangalore
Date: 04.07.2014

Hortnet Progress as on from 1-04-2014

- Training conducted to all districts on 22-04-2014.
- Procedure / Steps to feed application have provided to all districts. – User friendly i.e., with snap shots.
- Solving errors and clarifying queries to all districts regularly.

Pending from KSHMA

Bank payment gateway through HORTNET software -

Official letter have been send from SHM to bank authorizing, to make bank transfer online through Hortnet software.

Letter contains necessary information to be provided from Bank side – Details of authorised Bank representative, details of the SFTP server of the Bank.

Bank has to accept the electronic fund transfer order format

Action taken report format

File naming conventions

SFTP folder structures

Nice Sign tool software, standardised by NIC

Discussed with SBM Bank Manager –

Bank is following procedures to Map with HORTNET software – IT Department (SBM), Information technology system department requires meeting to discuss for better clarification - IT Department support team informed that they will have a discussion with AGM & inform the details to SBM manager.

Discussing regularly with Bank Manager – for better result

Meeting took place with SBM, Bank Manager, Nodal officer, NHM and Technical Director, NIC on 18-06-2014 and later discussed with State Bank of Mysore, Avenue road, IT team on same day.

NIC, IT development team had discussed with SBM, IT AGM team and agreed to make changes needed for further development of Bank gateway.

Digital signature token - to be taken for NHM – In the name of ED, NHM for Bank Payment purpose.

Project Based Workflow softcopy received from NIC, Hyderabad has been checked – Will Discuss with ED, NHM ASP.

Project Based Workflow – farmer registration step is not able to proceed for some districts – Have send problem snapshots to Hortnet helpdesk.

Non Project Based Workflow – Not able to add new bank name in the Hortnet Bank Master – Have send problem snapshots to Hortnet helpdesk.

Crop subsidy details have been calculated as per latest MIDH; guideline will be filled in HORTNET software ASP approved by higher officer's.