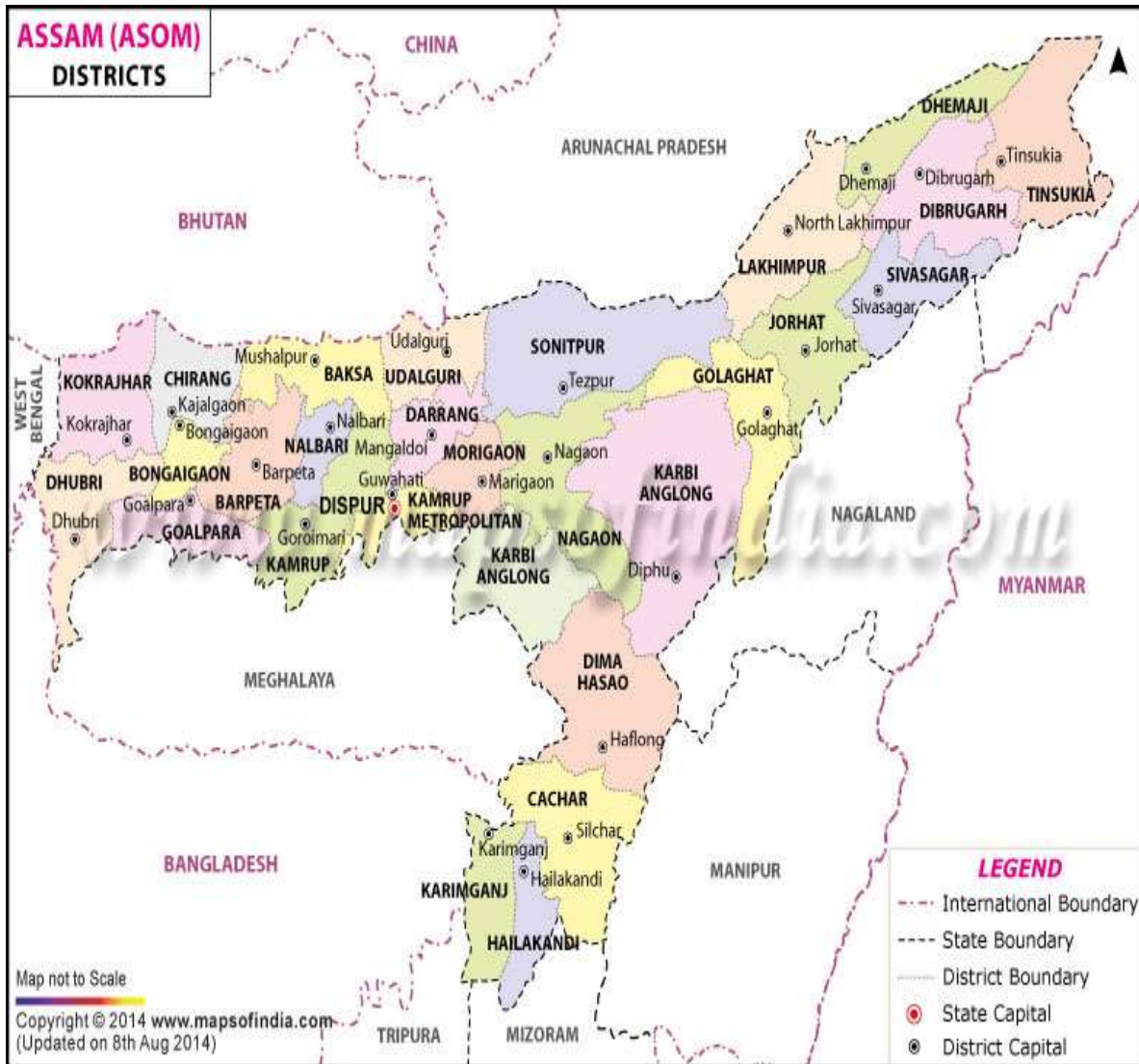


Joint Inspection Team (JIT) Report of Mission for Integrated Development of Horticulture (MIDH) for Assam State



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Dates of Visit: 10.11.2014 to 14.11.2014

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7. Sri Khagendra Sarma, SDAO (Hort) & Nodal officer attached to DHFP, Guwahati (Assam) (11.11.2014 & 13.11.14)

General Observations/Recommendations:

1. In case of area expansion JIT observed that area for which subsidy has been given to a beneficiary is not at one place and scattered at different places. Also, there is shade on many plants and the plants do not have proper growth. JIT feels that area selection should be done properly and concerned local officer from the State should visit the area before sanction of the subsidy. Recommended spacing between the plants need to be followed.
2. The State has many nurseries but not accredited so far. Because of this the State has to purchase planting material from other States. Also, the owners of these nurseries are getting very less price for the material produced by them accordingly JIT feels that accreditation of nurseries in the State need to be taken up on priority basis.
3. Beneficiaries of different activities need technical assistance/guidance. JIT feels that the State Governments officers should provide technical knowhow through training programmes etc. and also through exposure visits.
4. Proper tagging of plants giving name of the variety etc. need to be done in the nurseries producing planting material of different crops.
5. JIT observed that mulching is being done after planting which is not at all proper. This should be done before planting.
6. Training need to be imparted to workers for propagation and nursery management practices.
7. Drip irrigation system need to be installed in progeny nursery stock plants.
8. In case of polyhouse, the farmers need to be educated for inclusion of high value crops, off season/early production and also optimum utilization of the available area.
9. Efforts need to be made for creation of ripening chamber, pre-cooling unit, etc. in the area.
10. Concept of vegetable pack house need to be followed. The pack house should be in the field and not far away from the field.
11. The records for criteria used for selection of mother plants, its source of collection and varietal identification need to be maintained.
12. Training need to be imparted for proper care of crops from pests and disease

Introduction:

Assam is situated in the north eastern part of India bordering two countries- Bhutan and Bangladesh. There are 27 districts in the State, further sub divided into 145 revenue circles.

Assam is the largest economy of the North East India witnessing economic growth rate of close to 8 percent over the last few years. Agriculture and allied activities contribute more than 30 percent of the NSDP (Net State Domestic Product).

Roads: The road network in Assam comprises of total 51878 km of roads.

- Railways: As per the information available from N.E. Railway, the railway route length in Assam at the end of 2011-12 was 2458.93 km
- Airports: The State has the highest number of operational civil airports and these are located at Guwahati, Tezpur, Jorhat, Dibrugarh, North Lakhimpur and Silchar.
- Power: The installed power generating capacity in Assam is 401.5 MW. The energy requirement of the State has been estimated at 6081 million units during 2011-12 against which the availability stood at 5670 million units.

Geography

A significant geographical aspect of Assam is that it contains three of six physiographic divisions of India - The Northern Himalayas (Eastern Hills), The Northern Plains (Brahmaputra plain) and Assam Plateau (Karbi Anglong). As the Brahmaputra flows in Assam the climate here is cold and there is rainfall most of the month. Geomorphic studies conclude that the Brahmaputra, the life-line of Assam is an antecedent river, older than the Himalayas. The river with steep gorges and rapids in Arunachal Pradesh entering Assam, becomes a braided river (at times 10 mi/16 km wide) and with tributaries, creates a flood plain (Brahmaputra Valley: 50–60 mi/80–100 km wide, 600 mi/1000 km long). The hills of Karbi Anglong, North Cachar and those in and close to Guwahati (also Khasi-Garo Hills) now eroded and dissected are originally parts of the South Indian Plateau system. In the south, the Barak originating in the Barail Range (Assam-Nagaland border) flows through the Cachar district with a 25–30 miles (40–50 km) wide valley and enters Bangladesh with the name Surma River.

Urban Centres include Guwahati, one of the 100 fastest growing cities in the world. Guwahati is the gateway to the North-East India. Silchar, (in the Barak valley) the 2nd most populous city in Assam and an important centre of business, education and

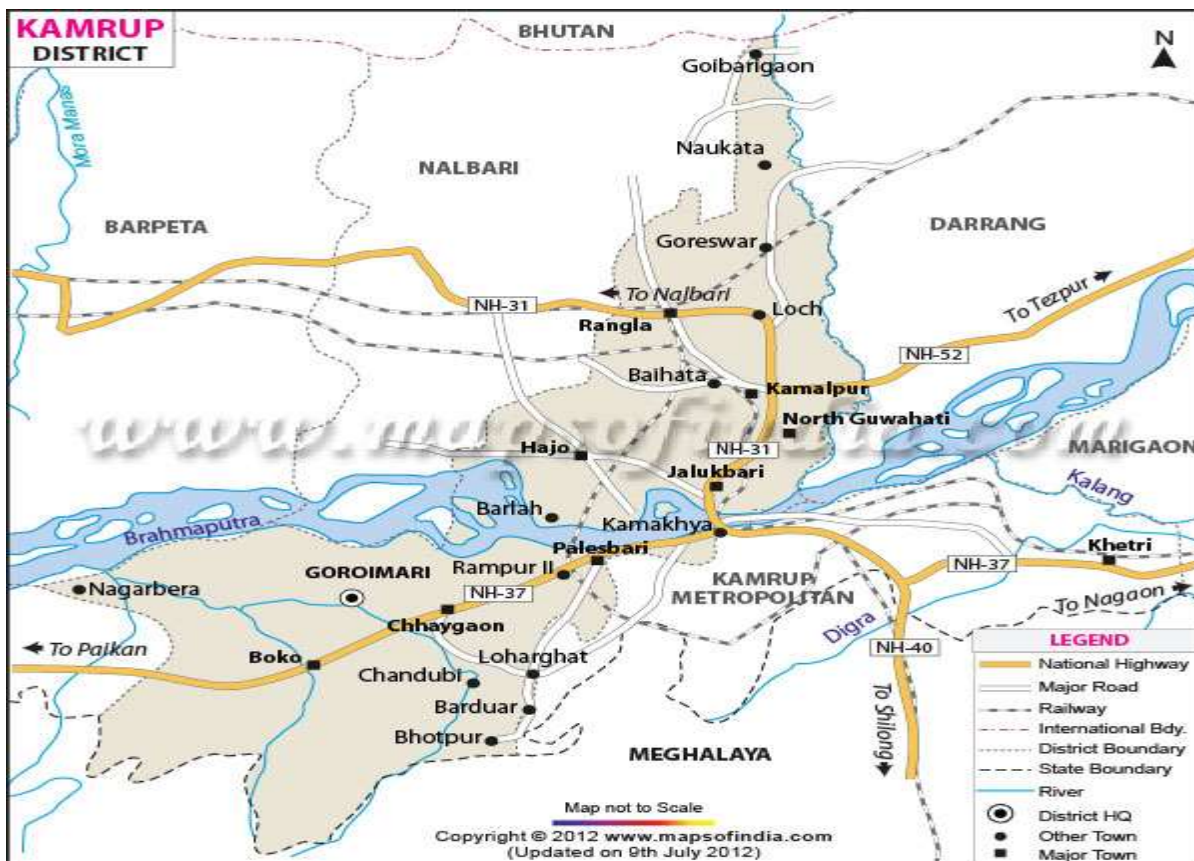
tourism. Other large cities include Dibrugarh, a oil, natural gas, tea and tourism industry; Nagaon, and Jorhat.

Climate

With the "Tropical Monsoon Rainforest Climate", Assam is temperate (summer max. at 95–100 °F or 35–38 °C and winter min. at 43–46 °F or 6–8 °C) and experiences heavy rainfall and high humidity. The climate is characterized by heavy monsoon downpours reducing summer temperatures and affecting foggy nights and mornings in winters, frequent during the afternoons. Spring (Mar–Apr) and Autumn (Sept–Oct) are usually pleasant with moderate rainfall and temperature. Assam's agriculture usually depends on the South-West monsoon rains.

Visit To different districts

District: Kamrup



Introduction:

Area and Location

Kamrup District is situated between 25.46 and 26.49 North Latitude and between 90.48 & 91.50 East Longitude. It is bounded by Udalguri and Baksa districts in the north, Meghalaya in the south, Darrang and Kamrup Metropolitan in the east and Goalpara and Nalbari district in the west. It has a total geographical area of 4, 34,500 acres.

Historically, present Assam was referred to as Kamrup in many of the ancient Indian literature. Till the Ahom conquest, Kamrup district was known as Pragjyotispur due to the astrology (Jyotish Shashtra) practices that prevailed in this part of the country. The mythologies of ancient Assam reveal that the word "Kamrup" means the land where 'Kamdev' regained his "Rupa" (form). During Ahom reign, Guwahati became an important strategic point and saw the famous battle of Saraighat between Ahom and Mughals, and since then Guwahati as well as Kamrup district continue to play the Political, Social, Economic and intellectual leadership of the state.

Natural resource base

Among the 15 agro-climatic regions of the country, categorized/identified on the basis of homogeneity in agro-characteristics, Kamrup falls in the Eastern Himalayan region. This region as a whole has high forest cover and practice of shifting cultivation. Felling of trees in upper reaches/hills and catchments areas of the Eastern Himalayan region has caused denudation and Kamrup district falls under the Lower Brahmaputra Valley zone. Soil structure of the district is mainly alluvial in nature. The result is heavy run-off, massive soil erosion and floods in lower reaches and basins. Large scale floods cause substantial damage to crops in the district.

Soil and Water

The district falls under Brahmaputra river basin. The district has large reservoir of water resources with the river Brahmaputra and its tributaries of Puthimari, Borno, Nona, Kulsi, Pagladiya and Kalajal. The rivers also act as reservoir for fisheries. The district has a total of five registered river fisheries along with 20 registered beel fisheries. The district experiences heavy annual rainfall in the range of 1500 mm to 2600 mm. As the soil in the Eastern Himalayan region is highly susceptible to erosion, top soils of the hills gets washed away and are deposited in lower reaches. Due to rolling nature of the plain especially towards western part of Guwahati sub-division, some pockets are prone to gully erosion. The natural depressions and low-lying areas are still un-claimed causing water stagnation in most of the eastern part of the valley mainly in Chandrapur block.

Construction of farm ponds for storage of excess rainfall and using the same for providing critical irrigation during dry spells with user charges have significant opportunities for creating minor irrigation potential in the district. The district approximately shares six percent of the usable ground water resources in the State of which 18 percent is usable for drinking water purpose. This indicates the necessity for harnessing alternative water use facilities as source of drinking water in the district.

Plantation and Horticulture

The agro climatic condition of the district makes it ideally suited for plantation and horticulture. Development of horticulture not only helps in creating additional job opportunity for the unemployed youth but is also useful from the point of view of value addition to the food and food processing units. The district has good potential for growing of fruit crops which include pineapple, litchi, orange, lemon, papaya, banana, mango, guava, etc. The district also offers good scope for mushroom cultivation and floriculture, being close to the urban centre like Guwahati.

Field Visits

Beneficiary No. 1

Production of Planting Material

Nursery

Sr. No.	Details	Remarks
1	Name of the project	Big Nursery, 2012-13
2	Year of Implementation	2012-13
3	Project Period	-
4	Name of Implementing Agency	Directorate of Horticulture & FP, Assam (HMNEH)
5	Location of Project	Khetri-Dhopguri, Kamrup
6	Total Project Cost	12.5 Lakh
7	Amount Released by DAC	12.5 Lakh
8	Expenditure incurred	-
9	Status of Project	Excellent
	<ul style="list-style-type: none"> Name of Nursery and crop for which plants are produced 	Deffodil Nursery, Dhrubajyoti Sarmah (Owner)
	<ul style="list-style-type: none"> Name of crops for which seeds produced 	Litchi, Guava, Mango, Assam Lemon, Orange (Mother block)
	<ul style="list-style-type: none"> Quantity produced 	-
	<ul style="list-style-type: none"> Quantity sold 	-

	• Rate	-
	• Amount realized through sale	-
	• Whether NHM logo displayed	Yes

Beneficiary No. 2

Production of Planting Material

Nursery

Sr. No.	Details	Remarks
1	Name of the project	Byrnihut Horticulture Farm
2	Year of Implementation	2012-13
3	Project Period	2012-13
4	Name of Implementing Agency	Directorate of Horticulture & FP, Assam
5	Location of Project	Byrnihut
6	Total Project Cost	25.00 Lakh
7	Amount Released by DAC	25.00 Lakh
8	Expenditure incurred	25.00 Lakh
9	Status of Project	Excellent
	• Name of Nursery and crop for which plants are produced	i. NIC, Nagpur ii. Lucknow – Horticulture Research Station iii. HRS – Kahikuchi iv. CRS – Tinsukia
	• Name of crops for which seeds produced	Guava
	• Quantity produced	1,85,000 Nos.
	• Quantity sold	23,000 Nos.
	• Rate	5/-
	• Amount realized through sale	Rs. 15,000.00
	• Whether NHM logo displayed	Nil

Observations:

1. Green Houses are almost well maintained.
2. Plastic mulching not properly laid in Assam lemon block.
3. Weeds and insect attack noticed in some plots of mother block.

Suggestions:

1. Drip irrigation need to be installed in all the blocks.
2. Weeding to be done and insecticide to be sprayed ,wherever, weed infestation & insect attack are there.

Beneficiary No. 3

Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Anil Boro & Group, Topatali. Nizara SHG, ADO Khetri
2	Total land available with the beneficiary (ha).	5.0 Ha
3	Crop Cluster under which covered.	Banana (Mulbhog)
4	Name & variety of crop planted.	Banana Mulbhog
5	Source of planting material.	Khusboo Enterprise, Guwahati
6	Number of planting material.	1198/Ha
7	Number of plants planted/ rejuvenated.	1198/Ha
8	Date of plants which survived (also indicate percentage survival).	1198 Nos.
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	39,375.00
10	Amount paid and date of payment.	-
11	Mode of payment.	By Cheque
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Rainfed
13.	Whether Drip/ Sprinkle System in use.	-
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.	Guwahati City Market
19.	Other infrastructure available in the vicinity.	-

20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	

Observations:

1. No pest & disease attack.
2. Weeds are not cleaned.
3. Maintained as organic through application of organic manure bio fertilizers etc.
4. Watering cannot be done in winter as boring is difficult.

Beneficiary No. 4

Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Vinoy Agarwala, Kamal Kalita & Gautam Kalita, ADO, Satgaon
2	Total land available with the beneficiary (ha).	14 Bigha
3	Crop Cluster under which covered.	Strawberry
4	Name & variety of crop planted.	Strawberry variety sweet early
5	Source of planting material.	Sheel Biotech
6	Number of planting material.	12,000 Nos.
7	Number of plants planted/ rejuvenated.	12,000 Nos.
8	Date of plants which survived (also indicate percentage survival).	11/11/2014
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	1,50,000.00
10	Amount paid and date of payment.	-
11	Mode of payment.	-
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Drip Irrigation

13.	Whether Drip/ Sprinkle System in use.	Drip Irrigation
14.	Other inputs provided.	Mulching
15.	Whether assistance available for Organic Farming	-
16.	If so, area covered	-
17.	Assistance available	-
18.	Available marketing facility for the crop.	Guwahati city market
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	

Observations:

1. Plastic mulching done after plantation.
2. Sprinkler irrigation given.
3. Excess water noticed in the drains

Suggestions:

1. Mulching to be done before planting.
2. Drip irrigation to be practiced instead of sprinkler.
3. Based on crop water requirement water should be applied
4. Weeds coming sideway of mulch to be cleaned.

Beneficiary No. 5

Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Suren Rahang, Nazirakhat, Sonapur ADO
2	Total land available with the beneficiary (ha).	14 Bigha
3	Crop Cluster under which covered.	1 Ha Guava

4	Name & variety of crop planted.	Guava variety Lalit
5	Source of planting material.	Janapriya Nursery
6	Number of planting material.	1008 Nos.
7	Number of plants planted/ rejuvenated.	1008 Nos.
8	Date of plants which survived (also indicate percentage survival).	70%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	36,000.00
10	Amount paid and date of payment.	36,000.00
11	Mode of payment.	By cheque
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Rainfed
13.	Whether Drip/ Sprinkle System in use.	-
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.	Guwahati city market
19.	Other infrastructure available in the vicinity.	-
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	

Observations:

1. Site selection seems to be not proper.
2. Insect attack in the plants
3. Spacing not maintained properly.

Suggestions:

1. Insecticide need to be sprayed.
2. For entering more light nearby bamboo trees may be removed.

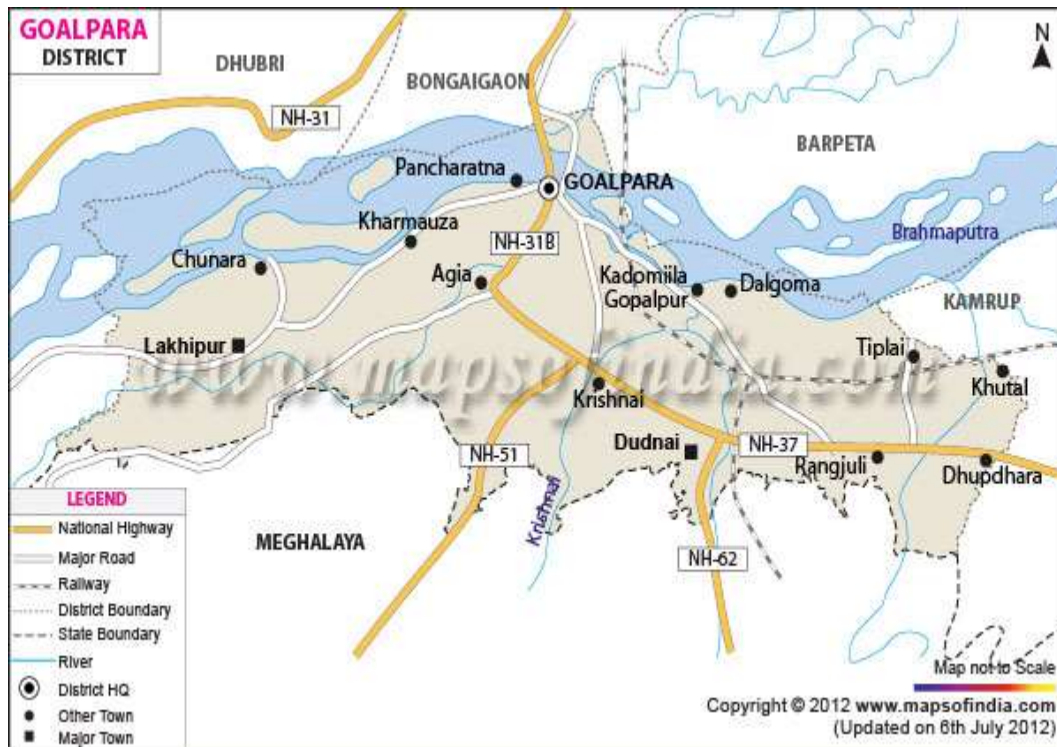
1st Phase Physical & Financial Progress of HMNEH under MIDH, 2014-15 in Assam**District : Kamrup**

Sl. No	Item	Rate of Assistance	Target		Achievement	
			Physical Ha/ no	Financial (Rs. in Lakh)	Physical Ha/ no	Financial (Rs. in Lakh)
1	Strawberry	1.40 lakh/Ha	5 Ha	7.00	5 Ha	7.00
2	Orange	0.30 lakh /Ha	37 Ha	11.10	37 Ha	11.10
3	Onion	0.15 lakh/Ha	100 Ha	15.00	100 Ha	15.00
4	Orchid & Anthurium	35.00 lakh/Ha	1 Ha	35.00	1 Ha	35.00
5	Planting Material – Vegetables	7.00 lakh/Ha.	1 Ha	7.00	1 Ha	7.00
6	Lilium	21.3 lakh/Ha.	1 Ha	21.30	1 Ha	21.30
7	HDPE (Vermibed purchase)	0.08 lakh/No.	350 Nos.	28.00	350 Nos.	28.00
Total -				124.40		124.40

Kamrup district Photographs



District: Goalpara



Introduction:

Entire Goalpara district of Assam is the operational jurisdiction of the KVK. The district is situated on the South bank of the river Brahmaputra. Geographical location of the district is between latitude 25° 50' N - 26° 10' and longitude 90° 07' – 91° 05' E at 100 - 500 m above the mean sea level (msl). It covers an area of 1,831 sq km and is bounded by West and East Garo Hill districts of Meghalaya on the South; Kamrup District on the East, Dhubri District on the West and the river Brahmaputra all along the North.

Topographically, the district is almost flat plain except for few low forested hills that break the monotony of the terrain. The main hills in the district are (1) Pancharatna, (2) Sri Surjya pahar, (3) Tukreswari, (4) Nalanga and (5) Paglartek with elevations ranging from 100 to 500 mts. There exist large number of char (Riverine tracts and sandy river island) in the river Brahmaputra. Main tributaries of river Brahmaputra in the district are (1) Dudhnoi, (2) Krishnai, (3) Jinjiram and (4) Jinary. Dudhnoi and Krishnai River originate from Meghalaya then join each other on the Western part of Matia and flows as river Mornoi upto its confluence with the Brahmaputra. The Jinjiram originates from Urpad Beel and flows parallel to the Brahmaputra and ultimately joins near South

Salmara of Dhubri district. There are a few other minor streams in the District. A number of beels (ox-bow lakes) such as Urapd beel, Hashila beel, Kumri beel and Dhamar Risan beel exist in the district.

Agro ecologically the district falls under the Lower Brahmaputr Valley Zone (LBVZ). Soil of the district is acidic in reaction and sandy to sandyloam in texture. Soil types available in the districts are given in Table-2. Climate is sub-tropical with average maximum temperature of 33.0 C during July-August and average minimum temperature of 7.0 C during January. Average annual rainfall is 2169 mm and average number of rainy days in a year is 95. Rain makes its first appearance in the month of April with occasional and irregular light showers and at times heavy downpour followed by cyclonic storm. The irregular rainfall continues up to the end of May. This rain occurs due to the influence of North-Eastern wind. Monsoon rain normally begins in the early part of June and heavy or/ and very heavy rains occur till the month of September. The maximum temperature is 33.0 C during July-August and the minimum temperature drops down to 7.0 C in the month of January. About 80% rainfall is due to South West monsoon.

The district experiences floods of moderate to severe intensity during monsoon. Besides, the district also witnesses flash flood. The flash flood occurred during October 2004 added in a new dimension of devastation of high degree. The low lying areas along the river Brahmaputra and the adjacent area of the beels are prone to flood during monsoon. Identified flood prone areas in the district are - (1) Matia area (Tiplai, Simlitola, Damanpara, Medhipara, Buddha Char, Rajar Char, Dalgoma, Majher Char, Kadamtola Char); (2) Mornoi area (Dubapara, Singimari, Benganbhita, Bahati Char Pakhiura); (3) Dudhnoi area (Bamunpara, Nayapara, Karipara, Bakaitari); (4) Karbala area (Hasila beel); (5) Kharmuza area (Kharmuza, Kaljani, Rakhaldubi, Joypur, Sonahar, Taparvita, Balarvita); (6) Chunari area (Bowratol, Sonalurtol, Dampara, Chilarvita fetengapara); (7) Jaleswar area (Jaleswar, Beldubi); and (8) Balbola area (Balijana, Dalak, Bhimajuli, Khagrabari, Godarbar, Chandmari, Nalipara, Bengdup, Goalpariagaon, Kokira, Khalisamari). Out of 861 villages 421 are chronically flood prone and 258 are severely affected. Out of total of 1,824 sq km area of the district, 958.14 sq. km is flood affected.

While 20.00% (36,503 ha) of the district is under forest coverage, 45.76% (83,502 ha) is net cropped area and 17.98% (32,819 ha) is barren and uncultivable area. Only 36.44% agricultural land is irrigated. Gross cropped area of the district is 76.42% (1,39,448 ha) with a cropping intensity of 167%. Out of the total cropped area of 32,538 ha, a total of 18,269 ha are flood affected.

Economy of the district is primarily an agrarian. However, only 18.34% of the population is directly engaged in agriculture as cultivator (12.22%) and agricultural labourers (6.12%). Classification of working population of the district is given in Table-3. The farmers are basically smallholders. Agro-forestry is the unique practice in the district. Every household grows timberplants as source of cash. Arecanut and banana are the major cash crop in the district. Since last 15 years arecanut has been suffering from ganoderma putting the farm families in economic difficulties. It has compelled the farm households to convert their arecanut orchard to rubber orchard. Holding size and landuse pattern are summerized in Table-4 and 5, respectively. The major agricultural produces are rice, jute, green gram, black gram and wheat. Major horticultural produces are banana, jack fruit, arecanut and rabi vegetables. Most of the rural households keep livestock like cattle, goat and pig and fowl like duck and chicken, at their home stead. Almost all family has a fishpond at their backyard. Contribution of the district to the GDP is Rs. 6,459.00 per capita.

Development of agriculture in the district is handicapped by lack of adequate input support services both in terms of quantity and quality. Seed, planting materials, fertilizers, pesticides, feed, medicine and vaccines are not readily available in time. Good breed of animal, stunted yearlings of fish, animal feed and fish feed are not available in the district. Floriculture, cultivation of medicinal and aromatic plants, duck rearing, pig husbandry and farming of edible snails have high potential in the district. The potential of these rural enterprises have not yet been tapped due to lack of proer support services in terms of inputs and technology.

Field Visit
Beneficiary No.1
Production of Planting Material

Nursery

Sr. No.	Details	Remarks
1	Name of the project	M/s. Anowara Nursery, Md. Aneswar Rahman, Dhupdhara, Goalpara
2	Year of Implementation	2012-13
3	Project Period	2012-13
4	Name of Implementing Agency	Directorate of Horticulture & FP, Assam
5	Location of Project	Dhupdhara, Goalpara
6	Total Project Cost	7.80 Lakh

7	Amount Released by DAC	3.125 Lakh
8	Expenditure incurred	7.80 Lakh
9	Status of Project	
	<ul style="list-style-type: none"> Name of Nursery and crop for which plants are produced 	Anowara Nursery, Assam Lemon, Arecanut, Guava, Litchi, Mango
	<ul style="list-style-type: none"> Name of crops for which seeds produced 	-
	<ul style="list-style-type: none"> Quantity produced 	2.5 Lakh
	<ul style="list-style-type: none"> Quantity sold 	2.5 Lakh
	<ul style="list-style-type: none"> Rate 	Rs. 8.00 – 10.00 each
	<ul style="list-style-type: none"> Amount realized through sale 	1.40 Lakh
	<ul style="list-style-type: none"> Whether NHM logo displayed 	

Observations:

1. Assisted under Horticulture Mission 2012-13 (Rs. 312 lacs)
2. Producing planting materials of Litchi, Black pepper, Assam lemon, Arecanut. Producing 1- 1.5 lac seedlings per annum.
3. Accredited but ranked as o Star Nursery.
4. No mother plant block, shadenet poly house.
5. No proper irrigation facilities.

Suggestions:

1. Improvement need to be done as per suggestions given by the team visited from NHB for accreditation. The suggestions made are like Constructing poly house / shade net house, Installing micro irrigation system, established mother block etc.

Beneficiary No.2

Production of Planting Material

Nursery

Sr. No.	Details	Remarks
1	Name of the project	M/s. Sundarban Nursery, Md. Jalaluddin Ahmed, Ambari, Dhupdhara, Goalpara
2	Year of Implementation	2012-13
3	Project Period	2012-13
4	Name of Implementing Agency	Directorate of Horticulture & FP, Assam

5	Location of Project	Dhupdhara, Goalpara
6	Total Project Cost	7.50 Lakh
7	Amount Released by DAC	3.125 Lakh
8	Expenditure incurred	7.50 Lakh
9	Status of Project	
	<ul style="list-style-type: none"> Name of Nursery and crop for which plants are produced 	Sundarban Nursery, Assam Lemon, Guava, Litchi, Mango, Cashewnut
	<ul style="list-style-type: none"> Name of crops for which seeds produced 	No
	<ul style="list-style-type: none"> Quantity produced 	2.0 Lakh
	<ul style="list-style-type: none"> Quantity sold 	2.0 Lakh
	<ul style="list-style-type: none"> Rate 	Rs. 8.00 – 10.00 each
	<ul style="list-style-type: none"> Amount realized through sale 	3.6 Lakh
	<ul style="list-style-type: none"> Whether NHM logo displayed 	

Observations:

1. Well maintained nursery recognized by Govt. of Assam.
2. Accredited as 2 star nursery.
3. The beneficiary has sound technical knowledge.

Suggestions:

1. As processing factory of cashew nut is not established in Assam. So much emphasis should not be given on producing planting material of cashewnut. It should be requirement based.
2. Effort should be made to improve and get more stars for accreditation.

**Beneficiary No.3
Production of Planting Material
Nursery**

Sr. No.	Details	Remarks
1	Name of the project	M/s. Sania Nursery, Md. Sajjad Gani, Dhupdhara, Goalpara
2	Year of Implementation	2012-13
3	Project Period	2012-13
4	Name of Implementing Agency	Directorate of Horticulture & FP, Assam
5	Location of Project	Dhupdhara, Goalpara
6	Total Project Cost	7.50 Lakh

7	Amount Released by DAC	3.125 Lakh
8	Expenditure incurred	7.50 Lakh
9	Status of Project	
	<ul style="list-style-type: none"> Name of Nursery and crop for which plants are produced 	Sania Nursery, Assam Lemon, Guava, Litchi, Mango, Orange, Banana
	<ul style="list-style-type: none"> Name of crops for which seeds produced 	No
	<ul style="list-style-type: none"> Quantity produced 	1.52 Lakh
	<ul style="list-style-type: none"> Quantity sold 	1.52 Lakh
	<ul style="list-style-type: none"> Rate 	Rs. 8.00 – 10.00 each
	<ul style="list-style-type: none"> Amount realized through sale 	1.25 Lakh
	<ul style="list-style-type: none"> Whether NHM logo displayed 	

Observations:

1. Assisted under Horticulture Mission 2012-13. Regd. No. Horti-FP/Nursery/Goalpara-73
2. As this is not accredited so planting material is sold locally and gets less money.
3. Producing planting materials of Assam lemon, Litchi, Black pepper about 85000 per annum.
4. Nursery maintained well.

Suggestions:

1. Should apply for accreditation.

Beneficiary No.4

Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Udayan AHG, Dipankar Rabha, Madang, Dhanubhanga
2	Total land available with the beneficiary (ha).	1 Ha
3	Crop Cluster under which covered.	Banana
4	Name & variety of crop planted.	Banana variety Mulbhug
5	Source of planting material.	Khusboo Enterprise, Guwahati
6	Number of planting material.	1700 Nos.
7	Number of plants planted/ rejuvenated.	1700 Nos.

8	Date of plants which survived (also indicate percentage survival).	90% 14-03-2014
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 39,375.00
10	Amount paid and date of payment.	Rs. 39,375.00
11	Mode of payment.	AC cheque
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Bore Well
13.	Whether Drip/ Sprinkle System in use.	No
14.	Other inputs provided.	
15.	Whether assistance available for Organic Farming	HDPE Vermibed
16	If so, area covered	1 Ha
17.	Assistance available	HDPE Set
18.	Available marketing facility for the crop.	Darrangiri Banana Bazar
19.	Other infrastructure available in the vicinity.	Banana Bazar
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very Good
21.	Any other relevant observation by the JIT.	

Observations:

1. Well maintained and the plot is being irrigated from nearby river water.
2. Siga taka disease is noticed in 1-2 plants.
3. Recently a portion was damaged by flood.

Suggestions:

1. Spraying Bavistin to control siga taka disease.

Beneficiary No.5
Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Chymal ASG, Nipu Rabha, MAdang, Dhabubhanga
2	Total land available with the beneficiary (ha).	1 Ha
3	Crop Cluster under which covered.	Banana
4	Name & variety of crop planted.	Banana for muching
5	Source of planting material.	Khusboo Enterprise, Guwahati
6	Number of planting material.	1700 Nos.
7	Number of plants planted/ rejuvenated.	1700 Nos.
8	Date of plants which survived (also indicate percentage survival).	90% 12-03-2014
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 39375.00
10	Amount paid and date of payment.	Rs. 39375.00
11	Mode of payment.	All cheque
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Bore Well
13.	Whether Drip/ Sprinkle System in use.	No
14.	Other inputs provided.	
15.	Whether assistance available for Organic Farming	HDPE Vermibed
16	If so, area covered	1 Ha
17.	Assistance available	HDPE Set
18.	Available marketing facility for the crop.	Darrangiri Banana Bazar
19.	Other infrastructure available in the vicinity.	Banana BAZar

20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very Good
21.	Any other relevant observation by the JIT.	

Beneficiary No.6
Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Nabarup ASG, Anamika Rabha, MAdang, Dhabubhanga
2	Total land available with the beneficiary (ha).	1 Ha
3	Crop Cluster under which covered.	Banana
4	Name & variety of crop planted.	Banana for muching
5	Source of planting material	Khusboo Enterprise, Guwahati
6	Number of planting material.	1700 Nos.
7	Number of plants planted/ rejuvenated.	1700 Nos.
8	Date of plants which survived (also indicate percentage survival).	90% 12-03-2014
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 39375.00
10	Amount paid and date of payment.	Rs. 39375.00
11	Mode of payment.	All cheque
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Bore Well
13.	Whether Drip/ Sprinkle System in use.	No
14.	Other inputs provided.	
15.	Whether assistance available for Organic Farming	HDPE Vermibed
16	If so, area covered	1 Ha
17.	Assistance available	HDPE Set
18.	Available marketing facility for the crop.	Darrangiri Banana Bazar
19.	Other infrastructure available in the vicinity.	Banana BAZar
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very Good
21.	Any other relevant observation by the JIT.	

Beneficiary No.7
Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Nabarup ASG, Anamika Rabha, MAdang, Dhabubhanga
2	Total land available with the beneficiary (ha).	1 Ha
3	Crop Cluster under which covered.	Banana
4	Name & variety of crop planted.	Banana for muching
5	Source of planting material.	Khusboo Enterprise, Guwahati
6	Number of planting material.	1700 Nos.
7	Number of plants planted/ rejuvenated.	1700 Nos.
8	Date of plants which survived (also indicate percentage survival).	90% 12-03-2014
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 39375.00
10	Amount paid and date of payment.	Rs. 39375.00
11	Mode of payment.	All cheque
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Bore Well
13.	Whether Drip/ Sprinkle System in use.	No
14.	Other inputs provided.	
15.	Whether assistance available for Organic Farming	HDPE Vermibed
16	If so, area covered	1 Ha
17.	Assistance available	HDPE Set
18.	Available marketing facility for the crop.	Darrangiri Banana Bazar

19.	Other infrastructure available in the vicinity.	Banana Bazar
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Very Good
21.	Any other relevant observation by the JIT.	

Rabha Village banana plantation (Group work):

Brief detail

1. Total group involved- 2 nos.
2. Area-1 ha per group
3. Beneficiary- Mr. Debabrata Rabha + 5 members (total 6 members)

Suggestions:

1. Some nutrient deficiency like magnesium was observed.
2. Sigataka leaf disease was found.
3. For efficient use of water drip irrigation can be laid out for the plantation instead of flood irrigation.
4. Vermi compost need to be encouraged for proper recycling of materials in the plantation itself.

Beneficiary No.8 Water Resources Development

Sr. No.	Details	Remarks
1	Name of the project	Water Harvesting Tank, Nabajagaran ASG
2	Year of Implementation	2012-13
3	Project Period	2012-13
4	Name of Implementing Agency	Directorate of Horticulture & FP, Assam
5	Location of Project	Madang
6	Total Project Cost	4.06 Lakh
7	Amount Released by DAC	2.06 Lakh
8	Expenditure incurred Status	2.06 Lakh
9	Current Status of Project	
	• Dimension (L x B x W)	20x20x3 (2 Nos.)
	• Capacity	20x20x3 (2 Nos.)

	• Command Area	5 Ha
	• Whether linked with new plantation or old plantation	New Plantation
	• Whether funds disbursed	Yes

Observations:

1. Size (10mx10mx2m)x2 units together i.e. 200m²
2. The pond was damaged during recent flood.

**Beneficiary No.9
Protected Cultivation**

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Firoza Ahmed, Dhupdhara, Goalpara
2	Total land available with the beneficiary (ha).	500 Sq.ft.
3	Type of Protected cultivation activity (Hi-tech / Normal GH, Shade net, Plastic tunnel)	Normal Green House
4.	Year of establishment	2012-13
5.	Size of Structure (Sq. m)	500 Sq. ft.
6.	Total cost	2.38 Lakh
7.	Agency involved in fabrication and installation	NERAMAC India Ltd.
8.	Total subsidy paid and date of payment.	2.38 Lakh
9.	Crop being grown	Vegetable
10.	Condition of Structure	Good
11.	Condition of Crop	Good
12.	Tie up with market	Local Market

13.	General upkeep (Very good/ Good/ Average/ Poor)	Good
14	Any other relevant observation by JIT.	Recommend high value crop

Suggestions:

1. The poly house was made with only one door. It should be with double door.
2. Technical assistance should be provided by State Department to help them choose the cropping sequence and crops which will give them maximum benefits.
3. All the places or area under poly house need to be utilized fully.

1st Phase Physical & Financial Progress of HMNEH under MIDH, 2014-15 in Assam

District : Goalpara

Sl. No	Item	Rate of Assistance	Target		Achievement	
			Physical Ha/ no	Financial (Rs. in Lakh)	Physical Ha/ no	Financial (Rs. in Lakh)
1	Onion	0.15 lakh/Ha	300 Ha	45.00	300 Ha	45.00
2	HDPE (Vermibed purchase)	0.08 lakh/No.	150 Nos.	12.00	150 Nos.	12.00
Total -				57.00		57.00

Golapara District photographs



District: Darrang



Introduction:

Darrang is situated in the central part of Assam on the northern side of the river Brahmaputra. It is a narrow strip of plain lying between Himalayas and Brahmaputra River. Placed in 20.9 N to 26.96 N latitudes and 91.45 E to 92.22 E longitudes, it has a strategic location as it shares both interstate and international boundaries with runachal Pradesh and Bhutan respectively. The river Brahmaputra flows in the south. Other two districts touching its borders are Sonitpur to the east and Kamrup to its west. The total area covered by the district is 1420.51 sq. km. Its distance from the state capital is 68 km. The climate of the district is humid and congenial.

Field Visit

Beneficiary No. 1

Production of Planting Material

Nursery

Sr. No.	Details	Remarks
1	Name of the project	Pvt. Sector Big Nursery
2	Year of Implementation	2013-14
3	Project Period	2013-14, 2014-15
4	Name of Implementing Agency	Directorate of Horticulture & FP, Assam
5	Location of Project	Sipajhar
6	Total Project Cost	25.00 Lakh
7	Amount Released by DAC	12.50 Lakh
8	Expenditure incurred	6.5 Lakh
9	Status of Project	
	<ul style="list-style-type: none">Name of Nursery and crop for which plants are produced	Mango, Lichi, Guava, Banana
	<ul style="list-style-type: none">Name of crops for which seeds produced	Guava, Mango
	<ul style="list-style-type: none">Quantity produced	1.00 Lakh target
	<ul style="list-style-type: none">Quantity sold	Nil
	<ul style="list-style-type: none">Rate	-
	<ul style="list-style-type: none">Amount realized through sale	-
	<ul style="list-style-type: none">Whether NHM logo displayed	No.

Beneficiary No. 2

Area Expansion / Rejuvenation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Bichitra Nath and 6 others, Kabikara, Darrang
2	Total land available with the beneficiary (ha).	1.1 Ha
3	Crop Cluster under which covered.	0.3 Ha

4	Name & variety of crop planted.	Assam Lemon
5	Source of planting material.	Jai Kishan Nursery, West Bengal
6	Number of planting material.	1100 Nos.
7	Number of plants planted/ rejuvenated.	1100 Nos.
8	Date of plants which survived (also indicate percentage survival).	July, 2014
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	36,000.00 (1 st Year)
10	Amount paid and date of payment.	Seedling Supplied
11	Mode of payment.	Cheque to Supplier
12	Source of Irrigation Water (Bore well/ Tube well/ Canel)	Tube Well
13.	Whether Drip/ Sprinkle System in use.	No
14.	Other inputs provided.	Fertiliser
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 at Mangaldoi
19.	Other infrastructure available in the vicinity.	
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	

Observations:

Total area – 4 ha

Crops- mango, litchi, guava, assam lemon, banana

Produces 1 lakh planting material per year

Suggestions:

1. Need to apply for Accreditation.
2. Take precautions to avoid flood condition in the nursery

Beneficiary No. 3**Water Resources Development
(NVUIC)
Protected Cultivation**

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Md. Sahjahan Ali, Behabari, Kharupetia
2	Total land available with the beneficiary (ha).	1.5 Ha
3	Type of Protected cultivation activity (Hi-tech / Normal GH, Shade net, Plastic tunnel)	Low Cost
4.	Year of establishment	2012-13
5.	Size of Structure (Sq. m)	100 Sqm.
6.	Total cost	21,610.00+5,000.00=26,610.00
7.	Agency involved in fabrication and installation	Self
8.	Total subsidy paid and date of payment.	21,610.00
9.	Crop being grown	Off season vegetable
10.	Condition of Structure	Good
11.	Condition of Crop	Good
12.	Tie up with market	Direct Marketing
13.	General upkeep (Very good/ Good/ Average/ Poor)	Good
14	Any other relevant observation by JIT.	

Observations:

1. Needs technical assistance
2. State department can assist with crops calendar for whole round year and crops which will be profitable to the farmers

Beneficiary No. 4**Post Harvest Management
NVUIC****Pack House/Cold Storage/Ref Van/ Primary processing**

Sr. No.	Details	Remarks
1	Name of the project	Pack House
2	Year of Implementation	2013-14
3	Project Period	2012-13
4	Name of Beneficiary	Mahila Krishak Unnayan FIG
5	Location of Project	Thekerabari
6	Total Project Cost	3.00 Lakh
7	Amount Released & date	1.5 Lakh
8	Expenditure incurred	1.5 Lakh
9	Status	
	Capacity of unit	10 MT
	Commodity	Vegetable
	Equipments purchased	-
	Condition of infrastructure	-
	Whether NHM logo displayed	No
	Whether funds disbursed to agency	

Vegetable pack house:**Brief details**

- Village- No.2 Thekerabari
- Name – Mahila Krishi Unnayan FIG
- Subsidy- 1.5 lakh

Observations:

1. Concept of packhouse is not clear to the members. Packhouse is having two small shops on the road side i.e. away from the fields.

Beneficiary No. 5

**Post Harvest Management
NVUIC 2012-13**

Pack House/Cold Storage/Ref Van/ Primary processing

Sr. No.	Details	Remarks
1	Name of the project	Pack House
2	Year of Implementation	2013-14, 2014-15
3	Project Period	2012-13
4	Name of Beneficiary	Luit Farmer's Club Bandia
5	Location of Project	Bandia Mangaldoi
6	Total Project Cost	3.00 Lakh
7	Amount Released & date	1.50 Lakh
8	Expenditure incurred	1.50 Lakh
9	Status	
	Capacity of unit	10 MT
	Commodity	Vegetable
	Equipments purchased	Nil
	Condition of infrastructure	Good
	Whether NHM logo displayed	No
	Whether funds disbursed to agency	

Observations:

1. Concept of packhouse is not clear to the members. Packhouse is having two small shops on the road side i.e. away from the fields.

1st Phase Physical & Financial Progress of HMNEH under MIDH, 2014-15 in Assam

District : Darrang

Sl. No.	Item	Rate of Assistance	Target		Achievement	
			Physical Ha/ no	Financial (Rs. in Lakh)	Physical Ha/ no	Financial (Rs. in Lakh)
1	Water Melon	0.25 lakh /Ha	20 Ha	5.00	20 Ha	5.00
2	Onion	0.15 lakh/Ha	200 Ha	30.00	200 Ha	30.00

3	Plastic Mulching	0.16 lakh/Ha	50 Ha	8.00	50 Ha	8.00
4	HDPE (Vermibed purchase)	0.08 lakh/No.	150 Nos.	12.00	150 Nos.	12.00
Total -				55.00		55.00

Darrang District Photographs

