Report of the Joint Inspection Team for their visit to Chhattisgarh State During 18-24th June, 2012 to review National Horticulture Mission Progress



Districts visited by J.I.T of National Horticulture Mission

1. Gumla 2. Latehar 3. Lohardaga 4. Chatra 5. Palamu



National Horticulture Mission Ministry of Agriculture Department of Agriculture & Cooperation Krishi Bhawan, New Delhi-110001

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Observations and Actionable issues

- 1. National Horticulture mission programme is not being implemented effectively for want of staff at field level. State Govt. needs to fill up all the vacant posts and also create new posts at field level for effective implementation of NHM programme.
- Close monitoring by Senior Officers involved with SHM activities in the State is essential. A periodic visit of officials to the beneficiary-site is suggested for technical support to farmers.
- Extensive/ wide potential exists for cultivation of Citrus in Palamu region. SHM should take intensive efforts to promote this crop under Area Expansion Programme.
- 4. Area expansion programme should invariably be linked with availability of water. As far as possible, new plantations should be linked with micro irrigation. Promotion of community pond / bore well needs to be promoted as an area specific activity, keeping in view the rainfall, water strata, community demand etc.
- 5. Income generating activities such as vermin-compost units, beekeeping and mushroom cultivation need to be promoted to generate employment and raise economic standard of people.
- 6. Proper action needs to be taken for producing elite planting material in relation to demand. SHM should also ensure that the planting materials given to the beneficiaries are genuine and well tagged from the established nurseries.
- 7. There is a need to have proper layout plan based on details about orchards, cluster, location, directions, total No. of plants, cultivar, date of plantation and replacement etc. and approved by the district horticulture officer well before plantation.
- Proper selection of site is a must for construction of polyhouse/ shade net. Technical expert of SHM should also verify the site where such structures are likely to be set up / established.
- 9. Farmer participation needs to be fully ensured under area expansion progarmme being implemented by various NGO's in the State.

- 10. Faulty structures of **shadenet** house were highlighted. It was suggested that matter may be taken up with the construction agency for immediate action / as per norms of NHM.
- 11. Capacity building through HRD, training and demonstration need to be taken up extensively, particularly in tribal areas where farmers are keen to adopt latest technologies.
- 12. During field visit, board displaying of NHM logo and activities under taken were not found at beneficiaries sites. Permanent Board displaying NHM logo at the sites of beneficiaries is recommended.

Report of the Joint Inspection Team visited Jharkhand During 18-24th June, 2012 to Review the Progress of National Horticulture Mission

INTRODUCTION

A Joint Inspection Team was constituted by the Component Authority to monitor the National Horticulture Mission Progress of Jharkhand State during 2011-12 through field verification. This was communicated to me vide letter No. 33-7/2006 Hort., of Govt. of India, Ministry of Agriculture, Department of Agriculture & Cooperation, (Horticulture Division), dated 26th September, 2011.

The Joint Inspection Team comprised of the following members -

- 1. Dr. Om Prakash, Chief Consultant (NHM), DAC New Delhi.
- Dr. Prashant Kumar, Prof. & Head, Department of Horticulture, Birsa Agriculture University, Kanke, Ranchi.
- Er. Mintu Job, Assistant Prof. (Agricultural Engineering) & PI (PFDC), BAU, Kanke, Ranchi.
- 4. Shri R.P Singh, STA (NHM), MOA, Govt. of India, Krishi Bhawan, New Delhi.
- 5. Dr. J. Munda, State Consultant (SHM), Krishi Bhawan, Campus, Kanke Road, Ranchi.

STATE PROFILE

The newly created Jharkhand State came into existence on 15^{th} November, 2000 as 28^{th} State carved out from erstwhile Bihar State. Latitudinally and longitudinally of the State lies between 21^0 58' 10" to 25^0 19' 15" North and 83^0 20' 50" to 88^0 4' 40" East respectively. The length from North to South is 380 KM while width from East to West is 463 KM. This state consists of five divisions, twenty four districts. The total population is 2.70 crore. In spite of rich natural resources the state is rated as backward one due to poor agricultural growth and output.

The Eastern region of the country comprising the States of Jharkhand, Bihar, Orissa, Chhattisgarh & West Bengal is bestowed with soil and climatic conditions suitable for production of Horticultural crops like fruits, vegetables, flowers, spices medicinal & plantation crops. The region is dominated with tribal habitat who is mostly marginal and small farmers.

Jharkhand is mostly known as mineral rich state but also excellent in growing vegetables which are sent to other states also. In fruits, mostly dry land crops like Jackfruit, Ber, Aonla, Chiraunji, Papaya etc. grown in abundance. About 75 percent population resides in rural areas and more than 80 percent of the total labour force is dependent on agriculture. The average annual rainfall of State varies from 1200-1400 mm out of which 80 percent is received during 4 months (June- September)

The nature of the monsoon is erratic and late arrival and early cessation is a common feature. The assured irrigation is available to hardly 10-11% area during kharif, 7% during rabi and 1-2% during summer season. In the absence of perennial river system, the agriculture is largely based upon rain dependent.

The primarily undulated type of the terrain of the state offers mainly two types of land resources-the uplands and low lands and their varieties which are suitable for the production of a wide range of crops. However, one of the important factors for underdevelopment character of agriculture is the predominance of food crops in the State. About 92% cropped area is covered under food grains and hardly 3-5% area is under cash crops. As a result returns per unit land and labour in the state is too low.

Moreover, in spite of the largely rain fed agriculture system and hardly 8% assured irrigation, the paddy is the prime crop of the state. Low lands that constitute 40% of the total cropped are remain largely mono-cropped under rice. This lack of elasticity in the cropping pattern makes the farmers more vulnerable against any deviation in rainfall-whether quantitative or qualitative.

The agriculture sector, however, is the mainstay of the State economy. The growth in this sector has bearing on the growth of the other sectors and subsequently the GDP growth rate of the state.

The state of Jharkhand is endowed with a climatic condition that is conducive for successful cultivation of a diversity of horticultural crops. Its uplands need to be changed from cereal based cropping system to the horticultural based cropping system. The wide product base, high volume of round the year production, strategic geographical location, abundant sunlight and high domestic demand automatically project horticulture as the thrust area of development. The horticultural produce including off-season vegetables from the State are being preferred in the neighboring states for their quality and time of availability. The state has large chunks of uplands and mild climate that offers immense potential for diversification under horticultural crops.

Sl.	Commodities	National Market	International Market
No.			
1.	Fruits	Litchi, Aonla, Mango, Strawberry, Custard apple, Jackfruit, Guava, Tamarind.	Litchi, Aonla, Tamarind.
2.	Vegetables	Pea, French bean, Toamto, Cauliflower, Cucumber, Okra, cucurbits Pointed gourd, Beans, Chilli, Early potato, Coriander leaves.	Pea, French bean, Tomato, Okra.
3.	Ornamental crops	Rose, Gladiolus, Gerbera, Orchids, China aster, Marigold, Dahlia, Carnation.	Roses, Gladiolus, Gerbera, Orchids, Carnation
4.	Low volume high value crops	Button mushroom, Oyster mushroom, Ginger, Turmeric.	Button mushroom, Ginger, Turmeric, Seed Spices.
5.	Medicinal and Aromatic Plants	Aloevera,Andrographispaniculata,Asparaguksracemosus,Bacopamonnieri,Boerhiaviadiffuksa,Nyctanthesarbortristis,Piper longum,Rauvolfiaserpentine,Tinosporacordifolia,Withania somifera.	Aloe vera, Andrographis paniculata, Piper longum, Bacopa monnieri.
6.	Plantation Crop	Cashewnut, Tea, Coffee	Cashewnut, Tea, Coffee
7.	Others	Honey	Honey
8.	Organic food	Fruit, Vegetables, Spices	Fruit, Vegetable, Spices

Horticultural commodities from Jharkhand for National and International markets.

However, through shift in cropping pattern, from cereal based to that based on horticultural crops, there is increasing evidence of enhanced income from marginal and small farm lands. With horticultural based farming, it is possible to make small and marginal land holdings viable as well as to enhance the living standards of the farming families. Moreover, the horticultural crops have tremendous potential of making optimum use of barren and waste lands which otherwise are put to either no or minimal use.

It is a big challenge to find ways to make farming a viable enterprise in an agricultural system that is primarily based on small and marginal farmers with minimal resources. The subsistence farming which focuses on the cultivation of cereals is no longer viable for marginal and small farm families. Net returns form cereal based farming on the small and marginal land holding have been abysmally low. Meeting both, the farm expenditure and consumption expenditure of farm families with these meager amounts is just not possible.

Horticultural crops play an important role in diversification of land use for its better utilization, improvement in productivity, increase in employment opportunities, better economic returns and nutritional security. Horticulture, today, is not merely a means of diversification but forms an integral part of food and nutritional security as also the essential ingredient of economic security. Adoption of horticulture both by small and marginal farmers has brought prosperity in many regions of the country.

In view of the dismal productivity of food crops and the geographical situation of the state, horticulture, is no more an option but has become a compulsion in the State.

The State of Jharkhand may be divided into six horticultural sub zones as far as the ecological specialties and suitability of different horticultural crops to them is concerned. The horticultural crops suitable for these six horticultural sub zones have been identified (Table) and area expansion under the different horticultural crops is planned accordingly.

S.	Iso-climatic sub	Location	Suitable crops		
No.	zones		Vegetables	Fruits	Flowers
1.	Subzone- I *Moderate temperature during summer *Rain fall: 1300- 1500 mm.	Ranchi, Part of Hzaribagh, Gumla, Simdega.	Off-season cabbage, capsicum, off-season cauliflower, tomato, peas, fresh been kharif potato, kharif onion, leafy vegetables, vegetable jackfruit, cucurbits, carrot, beet root, baby corn and cow pea.	Litchi, mango, guava, strawberry, sapota, custard apple, jackfruit, papaya, bael.	Carnation, gerbera, rose, chrysenthemu, marigold.
2.	Subzone-II * Relatively warmer and humid climate * High rainfall * Climate affected by sea	W. Singhbhym, E. Singhbhum, Sarikela.	Brinjal, tinda, okra, cowpea, capsicum, cauliflower, chilli, tomato, dolichos bean, root crops, cucumber.	Mango, guava, cashewnut, banana, jackfruit, custard apple, tamarind.	Tuberose, chrysenthemu, marigold.
3.	Subzone-III *Dry climate with less rainy months	Garhwa, Palamau, Chatra, Latehar	Brinjal, chilli, tomato, dolichos bean, root crops, leafy vegetables and cucumber.	Aonla, citrus, guava, bael, karonda	Marigold.
4.	Subzone-IV *Warmer climate *Medium rainfall *High concentration of injurious gases	Koderma, Giridih, Dhanbad, Bokaro, part of Hazaribag.	Brinjal, cabbage, okra, capsicum, cauliflower, chilli, tomato, peas, beans, and cucurbits.	Aonla, guava, karonda, bael, jamun, custard apple, tamarind.	Marigold, Rose, Chrysenthmu.
5.	Subzone-V *Warmer climate *High rainfall	Deoghar, Jamtara, Dumka, Godda, Sahebganj, Pakur	Kharif onion, Kharif potato, brinjal, cababge, cowpea, capsicum, cauliflower, chilli, okra, tomato, peas, beans, root crops, and cucurbits.	Mango, jackfruit, tamarind, custard apple and chiraunji, Cashewnut, strawberry	Rose, tuberose, marigold
6.	Subzone-VI *Cooler climate (altitude > 2000 ft.)	Hill of Gumla and Lohardaga	Broccoli, gherkins, cabbage, capsicum, off-season, cauliflower, chilli, tomato, peas & beans, root crops, beet root, carrot, cucurbits and baby corn.	Pear, peach, low chilling apple, loquat.	All orchids, bulbous flowers and chrysanthemum

Area suitability of different horticultural crops

The State profile of Jharkhand is given below-.

Total Geographical Area:	Area in Lakhs	Area in %
	Ha.	
Total Geographical Area:	79.71	
Total Cultivable Land	38.00	
New Sown Area	23.62	28.08%
Grossed Sown area	26.18	
Area sown more than once:	3.80	
Current Fallow	8.87	11.12%
Other Fallow	6.75	0.8.46%
Forest	23.28	29.20%
Barren & cultivable land	5.74	7.20%
Non- Agricultural Use	6.86	8.60%
Pasture and other grazing land	1.97	2.48%
Difference kind of trees	1.13	1.42%
Cultivable Waste Land	2.74	3.44%
Irrigated land	2.54	12%
Cropping Intensity		116%

Status of National Horticulture Mission in Jharkhand

The Centrally Sponsored Scheme of National Horticulture Mission (NHM) is being implemented in 17 districts on a Mission mode approach to address all the issues related to holistic development of Horticulture in the State since 2005-06

The scheme is being implemented in seventeen identified potential Districts with cluster approach. The district covered under NHM includes Palamau, Chatra, Latehar, Dumka, Deoghar, Ranchi, Lohardaga, Hazaribagh, Saraikela , East Singhbhum, Gumla ,Jamtara , Pakur , West Singhbhum, Ramgarh, Khunti and Simdega.

The focus crops identified under the programme include Aonla, Litchi, Mango, Peach, Citrus, Papaya, Ginger, Turmeric, Chillies, Flowers and Medicinal & Aromatic Plants.

Major activities being undertaken in the programme are production and distribution of planting material, vegetable seed production, area expansion, rejuvenation of old and senile orchards, creation of community water resources, protected cultivation, IPM/INM, organic farming, pollination support, development of infrastructure on post harvest management & marketing and human resource development.

Physical Achievement

Under the Mission, during 2005-06 to 2011-12, an additional area of 85438 ha of identified horticulture crops has been covered besides establishment of 156 nurseries for production of quality planting materials, 1831 ha. under vegetable seed production, 150 ha under rejuvenation of old and senile orchards, 2213 ha. under mulching, adoption of organic farming in an area of 172 ha besides establishment of 4854 numbers of vermi infrastructure facilities created such as Leaf tissue analysis labs, disease forecasting units and plant health clinics. 68 community water harvesting structures were created for providing critical irrigation to horticulture crops and 4637 honey bee colonies with hives were distributed. Under the post harvest management, 218 honey bee colonies with hives were distributed. Under the post harvest management, 218 units viz. 103 pack house, 100 Evaporated / low energy cool chambers, and 11 low cost onion storages structures, 1 refrigerated vans and 3 mobile processing units have been set up. Under market components, 18 functional infrastructures and 17 retail markets / outlets have been established. So far, 8235 farmers have been given training under various horticulture activities.

Financial Achievement

During 2005-06 to 2011-12, an amount of Rs. 217.32 crore was released to the State, against which an expenditure of Rs. 251.35 crore including State share has been reported.

The Annual Action Plan of SHM, Jharkhand for 2012-13 has been approved for Rs. 75.00 crore including GOI share of Rs. 63.75 crore. During the current financial year funds to the tune of Rs. 26.50 crore have been released.

Year-wise details of Outlay, Funds Released and Expenditure under NHM in Jharkhand.

			(Rs. in crore)
Year	Outlay	Release	Expenditure
2005-06	59.90	30.30	0.0
2006-07	83.25	40.00	23.83
2007-08	90.18	7.81	22.40
2008-09	98.73	50.00	52.63
2009-10	47.64	30.84	41.93
2010-11	42.50	16.00	45.55
2011-12	51.00	42.37	65.01
2012-13	63.75	26.50	

Jharkhand produces about 4.91 m. MT of horticulture produce from an area of 0.33 and account for 2.04% of total horticulture production of the country. The major share of horticulture production is from vegetables (83.69%)

Okra

- Jharkhand is ranked at sixth place in major okra producing State in the country and accounts for 7% of total production of okra in the country.
- The State produces about 0.42 m. MT of okra from an area of 0.03 m. ha with the productivity of 14.1 t/ha.

Cauliflower

- Jharkhand is the six major cauliflower producing State in the country and accounts for 6% of total production of cauliflower in the country.
- The State produces about 0.36 m. MT of cauliflower from an area of 0.02 m. ha with the productivity of 16 t/ha.

Cabbage

- Jharkhand is the sixth major cabbage producing State in the country.
- State is producing 0.45m MT of cabbage from an area of 0.03 m ha having productivity of 16.7 MT/ha. Production of cabbage accounts for 10.98% of total vegetable produce in the State.

Brinjal

• State produces 3.8% of total Brinjal in the country with production of 0.40 m. MT of brinjal from an area of 0.02m. ha. with the productivity of about 17.5 t/ha. Production of brinjal accounts for 5.17% of total vegetable produce in the State.

Potato

• The State produces 0.66 m MT of potato from an area of 0.04 m. ha. with the productivity of 16.5 t/ha. Production of potato accounts for 15.94% of total vegetable produce in the State.

Tomato

 Jharkhand accounts for 2% of total production of tomato in the country. The State produces 0.40 MT of tomato from an area of 0.02 m. ha. with the productivity of 18.0 t/ha. Production of tomato accounts for 9.77% of total vegetable produce in the State.

Mango

- Jharkhand accounts for 2.8% of total production of mango in the country.
- The State produces 0.43 m MT of mango from an area of 0.04 m ha with productivity of 11 MT/ ha which is second highest at par with Karnataka after Uttar Pradesh.

Joint Inspection Team under the leadership of Dr. Om Prakash, Chief Consultant (NHM) along with team members, Dr. Prashant Kumar (University Professor, BAU) and Mr. Mintu Job (Asstt. Professor & I/c PFDC,BAU) visited Chatra, Lohardaga, Latehar, Gumla and Palamau districts during 19-23 June 2012. The team inspected NHM activities implemented by different PIAs in randomly selected blocks of all these districts. The NHM activities like area expansion, nursery development, water resource creation, post harvest management and vermi composting units at different locations were visited. The inspection was based on qualitative and quantitative parameters. The informations gathered were through physical verification, interaction with the stake holders (farmers and PIAs). The details are as given below:

Date 19.06.12

District – Chatra Blocks- Chatra, Itkhori Implementing Agency= Welfare point, Chatra.

Shorr		
Sl.	Details	Remarks
No.		
1	Name and address of	Sri Dewnandan Pandey ,S/O- Late
	beneficiary whose field visited.	Ramchander Pandey Vill- Dewaria, Panchayat-
		Dewariya, Block- Chatra, Distict- Chatra.
2	Total Land available with the	1.50 Hectare.
	beneficiary (ha)	
3	Crop Cluster under which	Mango- 1.50 Ha.
	covered	

4	Name and Variety of crop Planted	Langra- 01.5	0 Ha.
5	Source of Planting Materials	Raidhani Nursery, West Bengal	
6	Number of Plants Planted	170	
7	Date of Planting	2006-07	
8	Number of Plants which		
	survived (Also Indicate		
	percentage survival)		
9	Total Amount of Subsidy		
	assistance due to the		
	beneficiary as (Rs.)		1
10	Amount Paid and Date of Payment	Date	Amount
	i dymont	26-05-07	1000
		01-06-07	940
		09-06-07	800
		27-08-07	360
		06-09-07	2000
		11-12-07	525
		07-03-08	350
		06-06-08	705
		01-07-08	1180
		12-01-09	785
		06-04-09	785
		10-01-11	925
		Total	10355.00
		Planting	7670.00
		Materials	
11	Mode of Payment	By Cheque, I	Direct to Beneficiary.
12	Source of Irrigation Water	W.H.T01	
13	Whether Drip, Sprinkler, System is use	No.	
14	Other inputs provided		
15	Whether assistance availed for		
10	Organic farming.		
16	If so, area covered		
17	Assistance availed		
18	Available marketing facility	Yes	
	for the crop.		
19	Other infrastructure available	Pond	
	in the vicinity.		
20	General upkeep of the plot	good	
	(Very Good, Good, Average,		
	Poor)		
21	Any other relevant	Given separa	tely
22	Whether NHM I ago displayed	No	
	whener when Logo usprayed	110	

- 1. Plants were also planted along the bunds, in such cases high mortality and stunted growth were seen.
- 2. Prolonged spell of heat waves during mid May to June has affected the survival of plants.
- 3. The farmer had adopted good canopy management.

On spot suggestions made:

- 1. Polythene, mulching/leaf mulching was suggested to increase water availability and better microclimate for good growth.
- 2. Care for new plants in the gap was suggested through measures like shading to combat extreme weather condition.
- 3. Planting along the bunds with lesser space for root development to be avoided

Sl.	Details	Remarks	
No.			
1	Name and address of beneficiary	Parmeshwar Dangi, S/o- Late- Amrit Mahto	
	whose field visited.	Vill- Kailash Nagar (Sesang), Panchayat-	
		Dewaria, Block- Chatra, Distict- Chatra.	
2	Total Land available with the	1.50 Hectare.	
	beneficiary (ha)		
3	Crop Cluster under which	Citrus-0.50 Ha, Mango- 01 Ha.	
-	covered		
4	Name and Variety of crop	Langra- 01 Ha, Kagzi Lime:- 0.50 Ha	
	Planted		
5	Source of Planting Materials	National Seed Corporation.	
6	Number of Plants Planted	200	
7	Date of Planting	2011-12	
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	Date Amount	
	Payment	22-08-11 3200	
		30-08-11 720	
		19-09-11 2500	
		30-10-11 2500	
		05-02-12 1310	
		15-02-12 1835	
		Total 12065.00	
	Planting Materials	8970.00	
11	Mode of Payment	By Cheque, Direct to Beneficiary.	
12	Source of Irrigation Water	Water Harvesting Tank-01, Irrigation well-01,	

		Pucca Tanki-01.
13	Whether Drip, Sprinkler, System	No.
	is use	
14	Other inputs provided	Fungicides/Insecticide
15	Whether assistance availed for	No
	Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility for	Available
	the crop.	
19	Other infrastructure available in	Farm Pond
	the vicinity.	
20	General upkeep of the plot	Average
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant observations	Given separately
	by the J.I.T.	
22	Whether NHM Logo displayed	No

- 1 Staking was not done properly as the stakes were weak and not tied well.
- 2 Prolonged spell of heat waves during mid may to mid June has affected the plants.
- 3 Plants were also planted along the bunds in such cases high mortality and stunted growths were seen.
- 4 In few cases spacing was not maintained.
- 5 Farmer (also a progressive vegetable grower) was very keen on getting assistance for deepening of pond and Drip irrigation system for orchard as well as intercrops.
- 6 Local method of storing onion and garlic through specially made bamboo/ knitted sheet structure at the ceiling of the house was found good storage.

On spot suggestions made:

- 1. Straw mulching/leaf mulching was suggested to increase moisture availability and better microclimate.
- 2. Care for new plants in the gap was suggested through measures like shading to combat extreme weather condition.
- 3. Planting along the bunds with lesser space for root development to be avoided.
- 4. Planting materials to be provided only after ensuring the preparatory works like proper trench etc.
- 5. Drip irrigation for orchard as well as intercrops.
- 6. Provision for permanent storage structure suggested

Spot 3			
SĪ.	Details	Remarks	
No.			
1	Name and address of	Kashi Mahto	o, Vill- Kailash Nagar (Sesang),
	beneficiary whose field visited.	Panchayat-	Dewaria, Block- Chatra, Distict-
		Chatra.	
2	Total Land available with the	1.00 Hectare	
	beneficiary (ha)		
3	Crop Cluster under which covered	Mango- 01 I	Ha.
4	Name and Variety of crop Planted	Langra- 01 H	Ia.
5	Source of Planting Materials	Rajdhani Nu	rsery
6	Number of Plants Planted	100	
7	Date of Planting	2005-06	
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 Pavment	Date	Amount
	5	27-08-06	1000
		04-10-06	940
		15-03-07	2860
		05-10-07	850
		05-02-07	1510
		Total	7160.00
	Planting Materials		3810.00
11	Mode of Payment	By Cheque	L Direct to Beneficiary
12	Source of Irrigation Water	Irrigation w	ell_01
12	Whether Drin Sprinkler	No	
15	System is use	110.	
14	Other inputs provided		
14	Whather assistance availed for	No	
15	Organic farming	INU	
16	If so, area covered	No	
10	Assistance availed	INO	
17	Assistance availed	Montrating T	Directly Done by Doneficiery in
10	for the crop	Chatra Gave	Dhanhad & Kolkata market
10	Other infrastructure evailable	Open well	i, Dhandad & Kolkata market.
19	in the vicinity	Open wen	
20	General unkeen of the plot	0.0070.000	
20	(Very Good Good Average	average	
	(Very Good, Good, Average,		
	1001)		

21	Any	other	relevant	Given separately
	observat	ions by the l	J.I.T.	
22	Whether	NHM Logo	o displayed	No

- 1. In the old orchard gap filling was done, but spacing was not maintained, instead the new plants were planted in between two established trees.
- 2. Lack of awareness of training and pruning was observed.

On spot suggestions made:

- 1. Such new plants which were planted in between two established plants was told to be uprooted and planted in adjacent lines so as to maintain proper spacing.
- 2. It was also suggested to plant local varieties of mango along the boundaries of the field as a wind break.
- 3. The implementing agency was asked to give more emphasis on capacity building to farmers in all aspects of orchard management.

SI.	Details	Remarks
NO.		
1	Name and address of	Sunil Kumar Singh ,S/O- Late Bhagwat Singh
	beneficiary whose field visited.	Vill- Bhojia, Panchayat- Lem, Block- Chatra,
		Distict- Chatra.
2	Total Land available with the	2.00 Hectare.
	beneficiary (ha)	
3	Crop Cluster under which	Mango- 1.00 Ha. Citrus-1.00 Ha
	covered	
4	Name and Variety of crop	Langra- 01 Ha, Kagzi Lime:- 1.00 Ha.
	Planted	
5	Source of Planting Materials	N.S.C.
6	Number of Plants Planted	260
7	Date of Planting	2010-11
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	Date Amount
	Payment	25-08-10 1000
		04-10-10 2885
		30-10-10 3220
		03-11-10 2500
		05-04-11 2100

		15-04-11	1575
		19-08-11	2625
		15-09-11	2230
		20-12-11	3015
		5-02-12	2230
		03-04-12	1965
		Total	25345.00
		Materials	10045.00
11	Mode of Payment	By Cheque,	Direct to Beneficiary.
12	Source of Irrigation Water	Irrigation w	ell-01.
13	Whether Drip, Sprinkler,	Sprinkler	
	System is use		
14	Other inputs provided	none	
15	Whether assistance availed for	no	
	Organic farming.		
16	If so, area covered	NA	
17	Assistance availed		
18	Available marketing facility for		
	the crop.		
19	Other infrastructure available in	Irrigation we	ell.
	the vicinity.		
20	General upkeep of the plot	Very good	
	(Very Good, Good, Average,		
	Poor)		
21	Any other relevant observations		
	by the J.I.T.		
22	Whether NHM Logo displayed	No	

Spot 4

Observations:

- 1. Crops (Mango, Aonla) are in very good condition. Boundary wall constructed by farmer through his own effort.
- 2. Water source not sufficient for assured irrigation.
- 3. One vermin compost unit (plastic vermin bed) installed and farmer has started taking its production

Suggestions made on spot:

- 1. One additional water source (pond) is suggested.
- 2. Shade on vermibed and provision for taking vermiwash to be made.
- 3. As the farmer was very receptive and very much interested in horticultural crops, a polyhouse /shadenet house in his plot was suggested.
- 4. Provision for one mother plant nursery was also suggested.

Spot 5			
Sl.	Details	Remarks	
No.			
1	Name and address of	Arbind Kumar Singh ,S/O- Late Chabila Singh	
	beneficiary whose field	Vill- Ghurnad	ih, Panchayat- Brahmana, Block-
	visited.	Chatra, Distict	- Chatra.
2	Total Land available with the	2.00 Hectare.	
	beneficiary (ha)		
3	Crop Cluster under which covered	Mango- 2.00 H	Ia.
4	Name and Variety of crop Planted	Langra- 02 Ha	
5	Source of Planting Materials	Rajdahani Nur	sery
6	Number of Plants Planted	200	
7	Date of Planting	2005-06	
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	Date	Amount
		25-05-06	2000
		17-06-06	4000
		07-08-06	2985
		06-11-06	3000
		29-11-06	1050
		26-02-07	780
		17-04-07	795
		14-12-07	785
		13-11-08	1380
		26-06-09	1180
		13-10-09	945
		Total	18900.00
		Materials	10365.00
11	Mode of Payment	By Cheque, Di	rect to Beneficiary.
12	Source of Irrigation Water	Check dam:-01. well-01	
13	Whether Drip, Sprinkler,	No.	
	System is use		
14	Other inputs provided		
15	Whether assistance availed		
	for Organic farming.		
16	If so, area covered		
17	Assistance availed		
18	Available marketing facility	Marketing Di	rectly Done by Beneficiary in

	for the crop.	Chatra, Gaya, Dhanbad & Kolkata market.
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Very good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given separately
	observations by the J.I.T.	
22	Whether NHM Logo	
	displayed	No

- 1. Plants were in good condition except cracking of bark observed.
- 2. Lift irrigation was tried to lift water upto 15m in the upland but farmer did not get any success. The available pond gets dried up. Farmer was very keen on installation of drip irrigation but little worry about the subsidy part

Suggestions made on spot:

- 1. Application of Copper oxychloride was suggested for protection of bark against cracking
- 2. As the farmer was very receptive and very much interested in horticultural crops, a polyhouse /shade net in his plot was suggested.
- 3. Provision for one nursery was also suggested.
- 4. Polythene lining in available pond was also suggested.

Sl.	Details	Remarks
No.		
1	Name and address of	Manoj Kumar Singh ,S/O- Sri Bhola Singh Vill-
	beneficiary whose field	Ghurnadih, Panchayat- Brahmana, Block-
	visited.	Chatra, Distict- Chatra.
2	Total Land available with the	1.50 Hectare.
	beneficiary (ha)	
3	Crop Cluster under which	Mango- 1.50 Ha.
	covered	
4	Name and Variety of crop	Langra- 01.50 Ha .
	Planted	
5	Source of Planting Materials	Rajdahani Nursery
6	Number of Plants Planted	150
7	Date of Planting	2006-07
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	Date	Amount
		26-05-07	1000
		11-06-07	2885
		06-07-07	1600
		30-08-07	720
		14-09-07	2000
		26-11-07	1050
		14-03-08	720
		30-06-08	1650
		16-03-09	1560
		07-01-10	2360
		04-02-11	1050
		06-06-11	2375
		20-12-11	1575
		Total	20545.00
		Materials	7852.00
11	Mode of Payment	By Cheque, Di	rect to Beneficiary.
12	Source of Irrigation Water	Check dam:-01	l. well-01
13	Whether Drip, Sprinkler,	No.	
	System is use		
14	Other inputs provided		
15	Whether assistance availed for Organic farming.		
16	If so, area covered		
17	Assistance availed		
18	Available marketing facility for the crop.	Marketing Di Chatra, Gaya, market.	rectly Done by Beneficiary in , Dhanbad, Ranchi & Kolkata
19	Other infrastructure available in the vicinity.		
20	General upkeep of the plot (Very Good, Good, Average, Poor)	good	
21	Any other relevant observations by the J.I.T.	Given separate	ly
22	Whether NHM Logo displayed	No	

- 1. Measures were taken to protect the plant from extremities of weather
- 2. Lift irrigation was tried to lift water upto 15m in the upland but could not get any success. The available pond gets dried up.
- 3. Farmer was very keen on installation of drip.

Suggestions made on spot:

1. Gap filling of damaged plants to be done.

Date 19.06.12 District.- Chatra, Block –Itkhori Implementing agency: Pink Welfare

Spot 1			
SĪ. No.	Details	Remarks	
1	Name and address of beneficiary whose field visited.	Ram Bharos	e Singh
2	Total Land available with the beneficiary (ha)	14 ha	
3	Crop Cluster under which covered		
4	Name and Variety of crop Planted	Mango (Lan	gra, Malda) Aonla (NA7)
5	Source of Planting Materials	NHM	
6	Number of Plants Planted	1000 (Mange	o), 556 (Aonla)
7	Date of Planting	July, Augus	t 2011-12
8	Number of Plants which survived (Also Indicate percentage survival)	92% and 50	%
9	Total Amount of Subsidy assistance due to the beneficiary as (Rs.)		
10	Amount Paid and Date of Payment	Date	Amount
	Planting Materials		
11	Mode of Payment		
12	Source of Irrigation Water	Deep Borewel	l, Water Harvesting Tank

13	Whether Drip, Sprinkler,	Sprinkler Pipe
	System is use	
14	Other inputs provided	Insecticides and Pesticides
15	Whether assistance availed	No
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	Hazaribagh, Gaya
	for the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given separately
	observations by the J.I.T.	
22	Whether NHM Logo	Yes
	displayed	

- 1. Measures were taken to protect the plant from extremities of weather. Irrigation is also being applied through saline drip system to the new crops.
- 2. Borewell was dug but sufficient discharge was not obtained. Tankers were employed to as life saving irrigation. One pond is constructed at the adjacent area but no water.
- 3. The Cluster consists of 14 hectares (10 hectare Mango, 2 hectare Aonla and 2 ha citrus).

Suggestions made on spot:

- 1. Gap filling of the damaged plants.
- 2. Drip Irrigation system to be installed on urgent basis.
- 3. Rain water harvesting to be done in constructed water body.

Day 2 (20.06.2012)

District Lohardaga Blocks- Kuru and Senha Implementing Agency- Vegfed, Ranchi

Spot 1		
Sl.	Details	Remarks
No.		
1	Name and address of beneficiary	Cluster of 35 farmers
	whose field visited.	
2	Total Land available with the	30 ha
	beneficiary (ha)	
3	Crop Cluster under which covered	Mango
4	Name and Variety of crop Planted	Amrapali, Langra, Mallika
5	Source of Planting Materials	

- 4 1

6	Number of Plants Planted			
7	Date of Planting		2008-09	
8	Number of Plants which survi	ived		
	(Also Indicate percentage survi	val)		
9	Total Amount of Sub	sidy		
	assistance due to the beneficiar	y as		
	(Rs.)			
10	Amount Paid and Date of Paym	ent	Date	Amount
	Planting Materials			
11	Mode of Payment			
12	Source of Irrigation Water	N T		
13	Whether Drip, Sprinkler,	No		
1.4	System is use			
14	Other inputs provided			
15	Whether assistance availed			
16	Ior Organic farming.			
10	A spistence evailed			
1/	Assistance availed			
10	for the grop			
10	Other infrastructure evoilable			
19	in the vicinity			
20	General unkeep of the plot	Δνο	rage	
20	(Very Good Good Average	AVC	lage	
	Poor)			
21	Any other relevant	Give	en separately	
	observations by the LLT	0170	en separatory	
22	Whether NHM Logo	No		
	displayed	0		

- 1. No NHM boards were displayed and registers/layout with respect to the plantation was not provided.
- 2. Growth of plant was okay but termite attack was seen.

Suggestions made on spot:

- 1. Canopy Management to be done.
- 2. Application of copper oxychloride in all plants suggested

Spot 2		
Sl.	Details	Remarks
No.		
1	Name and address of beneficiary whose field visited.	Jai Shankar Singh, Chandsalo, Kuru, Lohardaga
		(1 11- 7075445804)
2	Total Land available with the beneficiary (ha)	0.34 ha
3	Crop Cluster under which covered	Mango
4	Name and Variety of crop Planted	Amrapali, Malda, Dasheri, Himsagar
5	Source of Planting Materials	Rajdhani Nursery West Bengal
6	Number of Plants Planted	34
7	Date of Planting	2008-09 (August)
8	Number of Plants which	31 Plants (93%)
	survived (Also Indicate	
	percentage survival)	
9	Total Amount of Subsidy	5355
	assistance due to the beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	

	Planting Materials	
11	Mode of Payment	Through Cheque
12	Source of Irrigation Water	
13	Whether Drip, Sprinkler,	No
	System is use	
14	Other inputs provided	
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	Kuru
	for the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Poor
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given separately
	observations by the J.I.T.	
22	Whether NHM Logo	No
	displayed	

Organic Farming/Vermi compost Units

Sr.N.	Details	Remarks
1	Name of project	HDPE (Vermi Compost production Unit)
2	Year of Implementation	2011-12
3	Project period	2011-12
4	Name of implantation Agency	Veg-Fed,Ranchi
5	Location of project	Chandlaso, Kuru Lohardaga
6	Total project cost	5000.00 per HDPE Bed
7	Amount Released by DAC	100%
8	Expenditure incurred	100 %
9	Current status of project	Completed
	Crop covered	
	No. Of Farmers Involved	8 Farmers
	• Name & Address of certifying	District Agriculture Office
	Agency	
	Whether Any Certificate issued	No
10	Whether funds disbursed	100%

- 1. Crop was partially damaged due to fire but revival is possible, advised them accordingly.
- 2. Six units of plastic vermi units were being used and maintained well.

Recommendations:

- 1. Removal of partially burned twigs through pruning advised.
- 2. Provision for taking out vermiwash for field application suggested.

Sl.	Details	Remarks
No.		
1	Name and address of	Rajendra Bhagat, Bande Oraon Village Mant
	beneficiary whose field visited.	gara, Block Senha, Lohardaga
2	Total Land available with the	2 ha
	beneficiary (ha)	
3	Crop Cluster under which	Mango
	covered	
4	Name and Variety of crop Planted	Mallika, Amrapali, Dusheri, Himsagar
5	Source of Planting Materials	Rajendra Nursery, West Bengal
6	Number of Plants Planted	200
7	Date of Planting	August 2008
8	Number of Plants which	186 plants (93%)
	survived (Also Indicate	
	percentage survival)	
9	Total Amount of Subsidy	31500
	assistance due to the	
	beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	

	Planting Materials	
11	Mode of Payment	cheque
12	Source of Irrigation Water	Pond, Lift Irrigation
13	Whether Drip, Sprinkler,	No
	System is use	
14	Other inputs provided	
15	Whether assistance availed for	
	Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility for	Senha, Lohardaga
	the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given Separately
	observations by the J.I.T.	
22	Whether NHM Logo displayed	Wall Paintings and Hoardings

Water Resources (J.I.T.)

Sr.N.	Details	Remarks
1	Name of project	Water Resource Development
2	Year of Implementation	2008-09
3	Project period	2008-09
4	Name of implantation Agency	Veg-Fed, Ranchi
5	Location of project	Mentgarha,Senha, Lohardaga
6	Total project cost	2,52,700.00
7	Amount Released by DAC	By NHM Amount Release 50%
8	Expenditure incurred	2,52,700.00
9	Current status of project	Completed
	Capacity	100'x100'x15'
	Command area	20 Hac.
	• Whether linked with new plantation	Both
	or old plantation	Dom
	Whether funds disbursed	50%

na, Lohardaga
na, Lohardaga
Himsagar
gal

18	Available marketing facility for	Senha, Lohardaga
	the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given Separately
	observations by the J.I.T.	
22	Whether NHM Logo displayed	Wall Paintings and Hoardings

- 1. Vegetables were cultivated through inter culture.
- 2. Water lifting from the constructed pond was a problem

Suggestions:

- More crops to be grown through inter culture. Possibility of taking coarse cereal/ pulse crops should also be explored through inters culture to the keep farmer's interest alive.
- 2. In situ planting suggested for gap filling.
- 3. Proper water lifting device system advised to reach the water extreme tail end of the cluster.

Day 3 (21.06.12) District – Gumla Blocks- Bishunpur Implementing Agency- Vikash Bharti, Bishunpur

Visit to Krishi Vigyan Kendra, Gumla

Krishi Vigyan Kendra, Gumla Vikas Bharti, Bishunpur is situated in Bishunpur block of Gumla district on South Western part of Chhotanagpur Plateau region (Zone V) in Jharkhand. The Kendra was sanctioned by ICAR, New Delhi on 24th May, 2004 and made its humble beginning under the administrative control of Vikas Bharti Bishunpur in 2005.

The geographical area of this district is 5,31,398.13 hectare which is 6.67% of the total area of Jharkhand. It is situated at latitude 23^{0} 40' and longitude 84^{0} 50[°]. The soil pH is varying from 5.1 to 7.3 and temperature ranges from 4^{0} C to 43^{0} C. The annual rainfall of the district is 1178 mm.

Objectives

- To enhance the resilience of Indian agriculture covering crops, livestock and fisheries to climate variability and climate change through development and application of improved production and risk management technologies.
- To demonstrate site specific technology packages on farmers' field for adapting to current climate risks.
- To enhanced the capacity of scientists and other stakeholders in climate resilient agricultural research and its application.

Interventions

Module 1: Natural resources

This module consists of interventions related in situ moisture conservation, water harvesting and recycling for supplemental irrigation, improved drainage in flood prone areas, conservation tillage wherever appropriate, artificial ground water recharge and water saving irrigation methods.

Module I1: Natural resources

This module consists of introducing drought / temperature tolerant varieties, advancement of planting dates of rabi crops in areas with terminal heat stress, water saving paddy cultivation methods (SRI, aerobic, direct seedling), frost management in horticulture through fumigation, community nurseries for delayed monsoon, custom hiring centers for timely planting, location specific inter cropping systems with high sustainable yield index.

Module IV: Institutional Interventions

This module consists of institutional interventions either by strengthening the existing ones or initiating new ones relating to seek bank, fodder bank, community groups, custom hiring centre, collective marketing and introduction of weather index based insurance and climate literacy through a village level weather station.

Capacity Building

Under this component, need based training will be provided to scientists on the latest tools and methodologies of climate change research at the best of the institutions in the world. Simultaneously, capacity building of senior faculty will be done through short term exposure visits, participation in international symposia, training programs for extension of functionaries of the State, policy makers, NGOs and farmers are being organized to generate awareness on climate change.

Spot 1		
Sl.	Details	Remarks
No.		
1	Name and address of	Vishwanath Bhagat, Bishunpur
	beneficiary whose field visited.	
2	Total Land available with the	67 Ha (cluster of 27 beneficieries)
	beneficiary (ha)	
3	Crop Cluster under which covered	Mango
4	Name and Variety of crop Planted	Himsagar, Amrapali, Dusheri
5	Source of Planting Materials	M/s National Nurseries and Agri Farm
6	Number of Plants Planted	
7	Date of Planting	2008-09
8	Number of Plants which survived (Also Indicate percentage survival)	95%
9	Total Amount of Subsidy assistance due to the beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	
	Planting Materials	'
11	Mode of Payment	1
12	Source of Irrigation Water	Small wells
13	Whether Drip, Sprinkler,	No

	System is use	
14	Other inputs provided	
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	Gumla,Ghagra
	for the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Very Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given Separate.y
	observations by the J.I.T.	
22	Whether NHM Logo	Yes
	displayed	

- 1. Good Canopy management practiced by farmers.
- 2. Farmer's involvement in all stages was very well appreciable.
- 3. Rings formed around each tree were of proper size and moisture conservation measures like leaf mulching and plastic mulch were employed.

Suggestions:

- 1. Nipping of trees was suggested to maintain tree architecture
- 2. Copper oxychloride and chlorpyriphos to be applied on the bark so as to minimize cracking and termites.
- 3. Model Nursery in the cluster was also suggested.

Spot	2
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Sl.	Details	Remarks
No.		
1	Name and address of	Vikash Bharti , Salam Farm C Block,
	beneficiary whose field visited.	Bishunpur
2	Total Land available with the	60 ha
	beneficiary (ha)	
3	Crop Cluster under which	Medicinal Plants, Mother Plants Nurseries
	covered	
4	Name and Variety of crop	Aloevera, Lemon Grass, Aswagandha
	Planted	
5	Source of Planting Materials	
6	Number of Plants Planted	

7 Date of Planting 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 11 Mode of Payment 12 Source of Irrigation Water 13 Whether Drip, Sprinkler, System is use 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)				
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 Date 10 Amount Paid and Date of Payment Date 10 Amount Paid and Date of Payment Date 11 Mode of Payment	7	Date of Planting		
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9 Total Amount of Subsidy assistance due to the beneficiary as (Rs.) 10 Amount Paid and Date of Payment Date Amount 11 Mode of Payment 1 1 12 Source of Irrigation Water 1 1 13 Whether Drip, Sprinkler, System is use Both Drip Irrigation and Sprinkler Irrigat in use. 14 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 17 Assistance availed 17 Assistance availed 17 18 Available marketing facility for the crop. Ghagra, Gumla 17 20 General upkeep of the plot (Very Good, Good, Average, Poor) Drip Irrigation System, Polyhouse, Stora processing plant		survived (Also Indicate	e	
9 Total Amount of Subsidy assistance due to the beneficiary as (Rs.) 10 Amount Paid and Date of Payment Date Amount 10 Amount Paid and Date of Payment Date Amount 10 Amount Paid and Date of Payment Date Amount 11 Mode of Payment		percentage survival)		
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beneficiary as (Rs.) 10 Amount Paid and Date of Payment 10 Amount Paid and Date of Payment 11 Mode of Payment 11 Mode of Payment 12 Source of Irrigation Water 13 Whether Drip, Sprinkler, System is use Both Drip Irrigation and Sprinkler Irrigat in use. 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. Ghagra, Gumla 19 Other infrastructure available in the vicinity. Drip Irrigation System, Polyhouse, Stora processing plant 20 General upkeep of the plot (Very Good, Good, Average, Poor) Good		assistance due to the	e	
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Planting Materials 11 Mode of Payment 12 Source of Irrigation Water 13 Whether Drip, Sprinkler, Both Drip Irrigation and Sprinkler Irrigat in use. 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)				
Planting Materials 11 Mode of Payment 12 Source of Irrigation Water 13 Whether Drip, Sprinkler, Source of Irrigation Water 13 Whether Drip, Sprinkler, Both Drip Irrigation and Sprinkler Irrigat in use. 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)				
Planting Materials 11 Mode of Payment 12 Source of Irrigation Water 13 Whether Drip, Sprinkler, System is use Both Drip Irrigation and Sprinkler Irrigat in use. 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)				
Planting Materials 11 Mode of Payment 12 Source of Irrigation Water 13 Whether Drip, Sprinkler, System is use Both Drip Irrigation and Sprinkler Irrigat in use. 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)				
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Planting Materials 11 Mode of Payment 12 Source of Irrigation Water 13 Whether Drip, Sprinkler, System is use 14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)				
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12 Source of filigation water 13 Whether Drip, Sprinkler, System is use Both Drip Irrigation and Sprinkler Irrigat in use. 14 Other inputs provided in use. 15 Whether assistance availed for Organic farming. 16 16 If so, area covered 17 17 Assistance availed 18 18 Available marketing facility for the crop. Ghagra, Gumla 19 Other infrastructure available in the vicinity. Drip Irrigation System, Polyhouse, Stora processing plant 20 General upkeep of the plot (Very Good, Good, Average, Poor) Good	12	Source of Irrigation Water		
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14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)	15	System is use	in was	gation and Sprinkler intgation are
14 Other inputs provided 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor)	1.4	System is use	m use.	
 15 Whether assistance availed for Organic farming. 16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor) 20 Good 	14	Other inputs provided		
16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. Ghagra, Gumla 19 Other infrastructure available in the vicinity. Drip Irrigation System, Polyhouse, Stora processing plant 20 General upkeep of the plot (Very Good, Good, Average, Poor) Good	15	whether assistance availed		
16 If so, area covered 17 Assistance availed 18 Available marketing facility for the crop. Ghagra, Gumla 19 Other infrastructure available in the vicinity. Drip Irrigation System, Polyhouse, Stora processing plant 20 General upkeep of the plot (Very Good, Good, Average, Poor) Good	1.6	for Organic farming.		
 17 Assistance availed 18 Available marketing facility for the crop. 19 Other infrastructure available in the vicinity. 20 General upkeep of the plot (Very Good, Good, Average, Poor) 17 Ghagra, Gumla Drip Irrigation System, Polyhouse, Stora processing plant 	16	It so, area covered		
18 Available marketing facility for the crop. Ghagra, Gumla 19 Other infrastructure available in the vicinity. Drip Irrigation System, Polyhouse, Stora processing plant 20 General upkeep of the plot (Very Good, Good, Average, Poor) Good	17	Assistance availed		
for the crop.19Other infrastructure available in the vicinity.Drip Irrigation System, Polyhouse, Stora processing plant20General upkeep of the plot (Very Good, Good, Average, Poor)Good	18	Available marketing facility	Ghagra, Guml	a
19Other infrastructure available in the vicinity.Drip Irrigation System, Polyhouse, Stora processing plant20General upkeep of the plot (Very Good, Good, Average, Poor)Good		for the crop.		
in the vicinity.processing plant20General upkeep of the plot (Very Good, Good, Average, Poor)Good	19	Other infrastructure available	Drip Irrigation	n System, Polyhouse, Storage and
20 General upkeep of the plot (Very Good, Good, Average, Poor) Good		in the vicinity.	processing pla	nt
(Very Good, Good, Average, Poor)	20	General upkeep of the plot	Good	
Poor)		(Very Good, Good, Average,		
		Poor)		
21 Any other relevant Given Separately	21	Any other relevant	Given Separat	elv
observations by the J.I.T.		observations by the LLT.		
	22	Whether NHM Logo	Yes	
22. Whether NHM Logo Yes		displayed	100	
21 Any other relevant Given Separately	20 21	in the vicinity. General upkeep of the plot (Very Good, Good, Average, Poor) Any other relevant	processing plant Good Given Separately	
	22	Whether NHM Logo	Yes	
22 Whether NHM Logo Yes		displayed		

1. The farm was very well managed with all modern technologies including nursery, well managed medicinal plant, drip irrigation and efficient water lifting devices.

Suggestions:

- 1. Multiplication of the interventions in nearby area as well as KVK Chatra.
- 2. Industry Linkages should be fortified.

Sl.	Details	Remarks
No.	Name and address of beneficiary	Vikach Bharti Salam Farm C Block
1	whose field visited	Rishunpur
2	Total Land available with the beneficiary (ha)	50 ha
3	Crop Cluster under which covered	High Density Guava, High Density Mango(trenches digged)
4	Name and Variety of crop Planted	Allahabad Safeda, L-49, Kilo Amrud
5	Source of Planting Materials	NSC
6	Number of Plants Planted	
7	Date of Planting	
8	Number of Plants which survived (Also Indicate percentage survival)	More than 95%
9	Total Amount of Subsidy assistance due to the beneficiary as (Rs.)	
10	Amount Paid and Date of Payment	Date Amount
	Planting Materials	

11	Mode of Payment	
12	Source of Irrigation Water	Bore well, Tank
13	Whether Drip, Sprinkler,	Yes
	System is use	
14	Other inputs provided	Plant Protection measures
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	Ghagra, Gumla, Ranchi (for Processed products)
	for the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	
	observations by the J.I.T.	
22	Whether NHM Logo	
	displayed	

- 1. A very good demonstration of high density planting of Guava seen where four varieties were demonstrated.
- 2. Irrigation was provided through water lifting and drip irrigation.
- 3. Storage and processing plant for chilli was working well

Suggestions:

- 1. The main and sub main lines of drip irrigation was not buried in the ground and the laterals were not connected with poly tube extensions. It was suggested to ask the system provider to rectify and complete the installation on urgent basis.
- 2. Avenues for Value addition and marketing of processed products like chilli should be searched.

Sl. No.	Details	Remarks
1	Name and address of beneficiary	Dwarka Prasad
	whose field visited.	
2	Total Land available with the	0.4 ha (cluster of 93 ha)
	beneficiary (ha)	
3	Crop Cluster under which covered	Mango
4	Name and Variety of crop Planted	
5	Source of Planting Materials	NSC

6	Number of Plants Planted			
7	Date of Planting		2008-09	
8	Number of Plants which survived		93%	
	(Also Indicate percentage survival)			
9	Total Amount of Sub	sidy		
	assistance due to the beneficiary as			
	(Rs.)	•		
10	Amount Paid and Date of Paym	nent	Date	Amount
	Planting Materials			
11	Mode of Payment			
12	Source of Irrigation Water	Wat	er collected in	plastic lined dhobas
13	Whether Drip, Sprinkler,	No		-
	System is use			
14	Other inputs provided	Blac	ck Plastic M	Iulching, Plastic Lining of
		Dob	has, Plant Pro	otection measures
15	Whether assistance availed			
	for Organic farming.			
16	If so, area covered			
17	Assistance availed			
18	Available marketing facility	Gha	gra, Gumla	
	for the crop.			
19	Other infrastructure available	Irrig	gation water s	storage through 42 Jalkunds
	in the vicinity.	(dob	ohas)	
20	General upkeep of the plot	Goo	od	
	(Very Good, Good, Average,			
	Poor)			
21	Any other relevant	Give	en separately	
	observations by the J.I.T.			
22	Whether NHM Logo	Yes		
	displayed			

- 1. Overall upkeep of the cluster is very good.
- 2. After February free grazing of cattle create problem but it has been countered by good fencing and vigil (chowkidari).
- 3. The involvement of beneficiary is good.

Suggestions:

1. Local varieties of Mango can be planted on boundaries as a wind break.

SI. No	Details	Remarks	
1	Name and address of beneficiary whose field visited	Belatu Farm	
2	Total Land available with the beneficiary (ha)	28 ha	
3	Crop Cluster under which covered		
4	Name and Variety of crop Planted		
5	Source of Planting Materials		
6	Number of Plants Planted		
7	Date of Planting		
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	Date	Amount
	Payment		

	Planting Materials	
11	Mode of Payment	
12	Source of Irrigation Water	Drip Irrigation
13	Whether Drip, Sprinkler,	
	System is use	
14	Other inputs provided	Net House, Vermi compost unit
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	
	for the crop.	
19	Other infrastructure available	Irrigation facility, protected cultivation, concrete
	in the vicinity.	vermin composting unit
20	General upkeep of the plot	
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given separately
	observations by the J.I.T.	
22	Whether NHM Logo	
	displayed	

- The Belatu farm of Vikash Bharti where the NHM activities are in the form of Medicinal Plants, Net house and concrete vermi composting unit are in very good shape. Added to that the organizations own fruit plant orchard is a very good demonstration point.
- 2. NHM farmers of nearby areas and other districts can be made to visit this model farm as almost all NHM activities can be seen at one place.

Suggestions

- The Net house constructed can more optimally used by not allowing the sides to taper down without any foundation. The system providers should be apprised of the area lost at sides which is of no benefit to the farmers besides it adds up the cost of construction.
- 2. Remedial Measures for some diseased trees were given to the care taker.

Sl.	Details	Remarks	
110.	Nome and address of	Dithan Diriia Dahya Tali Natrahat	
1	beneficiary whose field visited.	Dithen Dirjia, Danua 1011, Netranat	
2	Total Land available with the	2 ha (73.4 ha in the cluster w	ith 20
	beneficiary (ha)	beneficiaries)	
3	Crop Cluster under which covered	Pears, Mango	
4	Name and Variety of crop Planted		
5	Source of Planting Materials		
6	Number of Plants Planted		
7	Date of Planting	2005-06	
8	Number of Plants which survived (Also Indicate percentage survival)	95%	
9	Total Amount of Subsidy assistance due to the beneficiary as (Rs.)		
10	Amount Paid and Date of	Date Amount	
	Payment		
	Planting Materials		
11	Mode of Payment		
12	Source of Irrigation Water	Pipe, Tank	
13	Whether Drip, Sprinkler,	No	
	System is use		
14	Other inputs provided		
15	Whether assistance availed		
	for Organic farming.		
16	If so, area covered		
17	Assistance availed		

18	Available marketing facility	
	for the crop.	
19	Other infrastructure available	Net house
	in the vicinity.	
20	General upkeep of the plot	Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given separately
	observations by the J.I.T.	
22	Whether NHM Logo	Yes
	displayed	

- 1. Crop was in good condition with proper canopy/tree geometry. Farmer had sold the produce to the market and earned Rs 35000 to 40000.
- 2. Farmer is taking maize as intercrop thus keeping his interest in the plantation alive. Good amount of FYM was applied on the intercultural field
- 3. Farmer was taking chilli in the net house

Suggestions:

- 1. Provision of Lift Irrigation from the nearby water source would benefit most of the farmers in the cluster
- 2. Drip Irrigation on the existing orchard
- 3. Net house design should be modified to utilize its entire area.

Day 4

Block – Chianki

District- Palamu

Zonal Research Station (BAU)

Regional Research Station Chianki was started during 1926 (Now under Birsa, located Agriculture University), 6 km away from Daltanganj on Ranchi- Daltanganj Road. During 1955 Bihar Government was started the Centre as Citrus Research Station, subsequently 1968 it was declared as Fruit Research Station where guava, Bael, Ber, Aonla, Mango were also included for Research to caters the need of 7 districts of Jharkhand viz. Garhwa, Chatra, Palamu, Latehar, Lohardonga, Gumla, and Shimdega.

Sl.	Details	Remarks
1	Name and address of	Zonal Research Station Chianki BAU
1	beneficiary whose field visited.	Zonai Research Station, Chianki, BAU
2	Total Land available with the	5 ha
	beneficiary (ha)	
3	Crop Cluster under which	Citrus (Mausambi, Orange,Kagzi Nimbu,
	covered	Gandraj, Sweet Lime, Kinnow, Darjeeling
		Santra, marsh Seedless, Grape fruit, etc.)
4	Name and Variety of crop	
_	Planted	
5	Source of Planting Materials	
6	Number of Plants Planted	200 < 07
7	Date of Planting	2006-07
8	Number of Plants which	Sweet Lime-78, kinnow-91, Masunbi-77,
	survived (Also Indicate	Mosambi-70, Kagji Nimbu-39, Gandhraj-69,
	percentage survival)	Darjeeling Santra-84, Darjeeling Santra-98,
		20 Izagii Nimbu(goodling) 100 Izagii Nimbu
		50, Kagji Nimbu(seeding)- 100, Kagji Nimbu-
		175 Nagnur santra 150 Lima Patti 20 Gagar 20
0	Total Amount of Subsidy	175Nagpul Saluta-150, Lille Fatti-20, Oagai-29
7	assistance due to the	
	beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
10	Payment	
	Planting Materials	
11	Mode of Payment	· · · · · · · · · · · · · · · · · · ·
12	Source of Irrigation Water	
13	Whether Drip, Sprinkler,	

	System is use	
14	Other inputs provided	
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	
	for the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given Separately
	observations by the J.I.T.	
22	Whether NHM Logo	Yes
	displayed	

- 1. Acute drought and high temperature witnessed
- 2. Tankers were employed to save the plants during the long dry spell.

Suggestions:

1. Water harvesting tank with gravity drip Irrigation suggested,

Spot 2

Block-Panki

District- Palamu

Implementing Agency- Gramshree, Vill & PO Mahuagawan, Chainpur, Palamu.

Secretary- Nagendra Kumar Pandey

Sl.	Details	Remarks
No.		
1	Name and address of	Bisheshwar Singh, Village- Bidra, Panchayat-
	beneficiary whose field visited.	Pagar
2	Total Land available with the	4ha
	beneficiary (ha)	
3	Crop Cluster under which	Lemon
	covered	
4	Name and Variety of crop	Babarsi Gol
	Planted	
5	Source of Planting Materials	NSC

6	Number of Plants Planted	1112 plants
7	Date of Planting	28.08.2011
8	Number of Plants which	745 (67%)
	survived (Also Indicate	
	percentage survival)	
9	Total Amount of Subsidy	20004
	assistance due to the	
	beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	
	Planting Materials	
11	Mode of Payment	By cheque and cash
12	Source of Irrigation Water	Borewell with submersible pump
13	Whether Drip, Sprinkler,	No
	System is use	
14	Other inputs provided	
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	Local level
	for the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given Separately
	observations by the J.I.T.	
22	Whether NHM Logo	Yes
	displayed	

- 1. Most of the plants existing in the field are either collapsed or on the verge of due to acute water crisis in the area.
- 2. The deep borewell facility was developed a bit late.
- 3. The survival of plants was normally low (around 20%) in contrast to what claimed by the agency.

Suggestions:

- 1. In water scarce area like this, mulching around plant basin with Palash leaves would be helpful.
- 2. Suggestions were given to replant the dried up plants and save the existing ones.
- 3. Deepening and widening of a depression in the area was suggested for developing it as a water harvesting pond with Plastic lining. This would cater the life saving irrigation till the month of March. The conjunctive use of surface and ground water (through borewell) would conserve the ground water reserve during summer months.

Sl.	Details	Remarks
No.		
1	Name and address of	Birendra Singh, Village- Koteya, Panchayat-
	beneficiary whose field visited.	Pagar
2	Total Land available with the	4ha
	beneficiary (ha)	
3	Crop Cluster under which	Aonla
	covered	
4	Name and Variety of crop	N A-7
	Planted	
5	Source of Planting Materials	NSC
6	Number of Plants Planted	1112
7	Date of Planting	28.08.12
8	Number of Plants which	768 (69%)
	survived (Also Indicate	
	percentage survival)	
9	Total Amount of Subsidy	14004 (as labour)
	assistance due to the	
	beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	

	Planting Materials		
11	Mode of Payment	By Cheque and	l Cash
12	Source of Irrigation Water	Bore Well with	Nubmersible Pump
13	Whether Drip, Sprinkler,	No	I I I I I I I I I
	System is use		
14	Other inputs provided		
15	Whether assistance availed		
	for Organic farming.		
16	If so, area covered		
17	Assistance availed		
18	Available marketing facility	Local Level	
	for the crop.		
19	Other infrastructure available		
	in the vicinity.		
20	General upkeep of the plot		
	(Very Good, Good, Average,		
	Poor)		
21	Any other relevant	Given Separate	bly
	observations by the J.I.T.	Ĩ	-
22	Whether NHM Logo	Yes	
	displayed		

- 1. Most of the plants existing in the field are either collapsed or on the verge of it due to acute water crisis in the area.
- 2. Training /Pruning practice was not followed by the farmers hence new leaves were coming out from the root stocks of dried crops.
- 3. The survival was abysmally low (around 15%) in contrast to what claimed by the agency.

Suggestions:

- 1. In water scarce area like this, mulching around tree basin with Palash leaves would be helpful.
- 2. Suggestions were given to replant the dried plants and save the existing ones
- 3. Drip Irrigation for the entire patch was suggested.

Spot 4	
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Sl.	Details	Remarks
No.		
1	Name and address of	Pankaj Singh, Village- Koteya, Panchayat-
	beneficiary whose field visited.	Pagar
2	Total Land available with the	4 ha
	beneficiary (ha)	
3	Crop Cluster under which covered	Mango
4	Name and Variety of crop Planted	Himsagar
5	Source of Planting Materials	NSC
6	Number of Plants Planted	400
7	Date of Planting	27.08.11
8	Number of Plants which	248 (62%)
	survived (Also Indicate percentage survival)	
9	Total Amount of Subsidy	13200 (as Labour)
	assistance due to the	
	beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	
	Planting Materials	

11	Mode of Payment	Cheque & Cash
12	Source of Irrigation Water	Well
13	Whether Drip, Sprinkler,	No
	System is use	
14	Other inputs provided	
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	Local Level
	for the crop.	
19	Other infrastructure available	
	in the vicinity.	
20	General upkeep of the plot	Good
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given Separately
	observations by the J.I.T.	
22	Whether NHM Logo	Yes
	displayed	

- 1. The Mango Plants were not seen as the entire patch was covered by Palash.
- 2. The survival was abysmally low (around 10%) in contrast to what claimed by the agency.

Suggestions:

- 1. In water scarce area like this, mulching around tree basin with Palash leaves would be helpful.
- 2. Suggestions were given to replant the dried up plants and save the existing ones

Sl.	Details	Remarks
No.		
1	Name of the Projects	NHM
2	Year of Implementation	2011-12
3	Project Period	2011-12 to 2013-14
4	Name of Implementing Agency	Gramshree, Palamau
5	Location of Project	Village- Koteya, Panchayat- Pagar, Block-
		Panki
6	Total Project Cost	1621250
7	Amount Released by DAC	817500
8	Expenditure incurred	625180

Water Resources

9	Current Status of Project	running
	Capacity	12 ha
	Command Area	15 ha
	• Whether Linked with new Plantation or old Plantation	New plantation
	• Whether Fund Disbursed	Material works

Spot 5

Block – Manatu

Implementing Agency- SEEDS, Daltonganj, Palamau

President- Naseem Ahmed

Sl.	Details	Remarks
No.		
1	Name and address of	Rajesh Mahto, Hari Mahto, Vijay Mahto,
	beneficiary whose field visited.	Vinod Mahto Selari
2	Total Land available with the	12 ha (8 benficiaries)
	beneficiary (ha)	
3	Crop Cluster under which	Mango, Aonla, Lemon, Guava
	covered	
4	Name and Variety of crop	Mango- Himsagar, Aonla- NA7 &chakaiya,
	Planted	Lemon- Banarasi gol, Guava- L-49
5	Source of Planting Materials	NSC
6	Number of Plants Planted	2078
7	Date of Planting	August to September 2011
8	Number of Plants which	1490 (72%)
	survived (Also Indicate	
	percentage survival)	
9	Total Amount of Subsidy	44400 (as kind and Labour)
	assistance due to the	
10	beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	

		Payment	Rs 135800
		done as per	
		requirement	
	Planting Materials		
11	Mode of Payment	By cheque and	Cash
12	Source of Irrigation Water	Well, Lift Irriga	ation
13	Whether Drip, Sprinkler,	Sprinkler Syste	m
	System is use		
14	Other inputs provided	Insecticides and	l pesticides
15	Whether assistance availed		
	for Organic farming.		
16	If so, area covered		
17	Assistance availed		
18	Available marketing facility	At local Market	t
	for the crop.		
19	Other infrastructure available		
	in the vicinity.		
20	General upkeep of the plot	Average	
	(Very Good, Good, Average,		
	Poor)		
21	Any other relevant	Given Separate	ly
	observations by the J.I.T.		
22	Whether NHM Logo	Yes	
	displayed		

Water Resources (J.I.T.)

Sl.	Details	Remarks
No.		
1	Name of the Projects	National horticulture Mission
2	Year of Implementation	2011
3	Project Period	
4	Name of Implementing Agency	SEEDS, Palamau
5	Location of Project	Village- Selari, Block- Manatu, Dist-
		Palamau
6	Total Project Cost	Rs 517500
7	Amount Released by DAC	Rs 258750
8	Expenditure incurred	Rs 258750
9	Current Status of Project	
	Capacity	Micro Lift Irrigation system
	Command Area	30 ha
	• Whether Linked with	New and old plantation
	new Plantation or old	
	Plantation	
	Whether Fund Disbursed	Among workers and material purchasing

- 1. Survival was around 55-60%. There was a need of training and pruning in almost all crops
- 2. Farmer's involvement was comparatively better compared to other clusters of the district.
- 3. Farmers were very keen for assistance under micro Irrigation.
- 4. One farmer was suggesting expanding the reach of lift irrigation facility given to them. As the water through lift irrigation was not reaching the extreme end of the cluster and they were demanding more conduit pipes.

Suggestions:

- 1. Hands on training were imparted by JIT members, to the farmers of the cluster on training and pruning which went very well with the villagers.
- 2. Drip Irrigation was suggested for the entire cluster.

Spot 6

Block- Lesliganj

Implementing Agency- Chotanagpur Adivasi Harijan Uttan Samiti, Daltonganj, Palamau, Secretary- Manoj Kumar

Sl.	Details	Remarks
No.		
1	Name and address of	Suraj Kanti Devi, Mangal Kumar, Monu
	beneficiary whose field visited.	Kumar Singh, Village –Ramsagar, Panchayat-
		Jamundih, Block- Lesliganj
2	Total Land available with the	8.2
	beneficiary (ha)	
3	Crop Cluster under which	Mango
	covered	
4	Name and Variety of crop	Langara
	Planted	
5	Source of Planting Materials	NSC
6	Number of Plants Planted	820
7	Date of Planting	15.09.11
8	Number of Plants which	65%
	survived (Also Indicate	
	percentage survival)	
9	Total Amount of Subsidy	27060
	assistance due to the	
	beneficiary as (Rs.)	

10	Amount Paid and Date of	f Date	Amount
	Payment		
	Planting Materials		
11	Mode of Payment	Cheque and cash	
12	Source of Irrigation Water	well	
13	Whether Drip, Sprinkler,		
	System is use		
14	Other inputs provided	Cow dung	
15	Whether assistance availed		
	for Organic farming.		
16	If so, area covered		
17	Assistance availed		
18	Available marketing facility	yes	
19	Other infrastructure available		
17	in the vicinity		
20	General upkeep of the plot	good	
	(Very Good, Good, Average,	8	
	Poor)		
21	Any other relevant	Given separate	ely
	observations by the J.I.T.	-	
22	Whether NHM Logo	yes	
	displayed		

Water Resources (J.I.T.)

Sl.	Details	Remarks
No.		
1	Name of the Projects	National horticulture Mission
2	Year of Implementation	2011-12
3	Project Period	
4	Name of Implementing Agency	CAHUS
5	Location of Project	Ramsagar, Lesliganj

6	Total Project Cost	Rs 235781
7	Amount Released by DAC	Rs 235781
8	Expenditure incurred	Rs 235781
9	Current Status of Project	
	Capacity	
	Command Area	10 ha
	• Whether Linked with	New plantation
	new Plantation or old	
	Plantation	
	• Whether Fund Disbursed	

- 1. Survival as seen was around 25-30 %.
- 2. There was no symmetry in the plantation.

Suggestions:

- 1. Suggestions were given to replant the dried up plants and save the existing ones
- 2. Drip Irrigation for the entire patch was suggested.

Sl.	Details	Remarks
No.		
1	Name and address of	Nand Ram,
	beneficiary whose field visited.	
2	Total Land available with the	2 ha
	beneficiary (ha)	
3	Crop Cluster under which	
	covered	
4	Name and Variety of crop	Aonla, NA7
	Planted	
5	Source of Planting Materials	NSC
6	Number of Plants Planted	
7	Date of Planting	2009-10
8	Number of Plants which	Not assessed
	survived (Also Indicate	
	percentage survival)	
9	Total Amount of Subsidy	
	assistance due to the	
	beneficiary as (Rs.)	
10	Amount Paid and Date of	Date Amount
	Payment	

	Planting Materials		
11	Mode of Payment		
12	Source of Irrigation Water	Well	
13	Whether Drip, Sprinkler,	No	
	System is use		
14	Other inputs provided		
15	Whether assistance availed		
	for Organic farming.		
16	If so, area covered		
17	Assistance availed		
18	Available marketing facility		
	for the crop.		
19	Other infrastructure available		
	in the vicinity.		
20	General upkeep of the plot	Average	
	(Very Good, Good, Average,		
	Poor)		
21	Any other relevant	Given Separat	ely
L	observations by the J.I.T.		
22	Whether NHM Logo	no	
	displayed		

- 1. Area under plantation reduced as farmers have taken field crops in that due to high mortality.
- 2. Aonla plants appeared more aged than what was claimed.
- 3. Acute lack of canopy management was observed as the trees were being branched out from root stock.
- 4. Few mango trees (3 Nos) which were existing found to be lanky (more than 1.5 m) and appeared that the planting material provided were too old

Suggestions:

- 1. Canopy Management in existing Aonla plants
- 2. Replacement and replanting in the gaps.

Day 5

Block- Manika

District- Latehar

Implementing Agency- Sarna Samaaj

Sl.	Details	Remarks	
1	Name and address of beneficiary whose field visited	Md. Irfan, Village- Nuadang,Latehar	
2	Total Land available with the beneficiary (ha)	5 ha	
3	Crop Cluster under which covered	Aonla, Mango, Lemon, Guava	
4	Name and Variety of crop Planted	Aonla-NA7, Mango- Himsagar , Lemon- Banarasi gol, Guava- L-49	
5	Source of Planting Materials	NSC	
6	Number of Plants Planted	Aonla-150, Mango-200, Lemon-40, Guava-80	
7	Date of Planting	Aug 2011	
8	Number of Plants which survived (Also Indicate percentage survival)	Aonla-60, Mango-70, Lemon-30 Guava-20	
9	Total Amount of Subsidy assistance due to the beneficiary as (Rs.)		
10	Amount Paid and Date of	Date Amount	
	Payment		

	Planting Materials	
11	Mode of Payment	
12	Source of Irrigation Water	
13	Whether Drip, Sprinkler,	No
	System is use	
14	Other inputs provided	
15	Whether assistance availed	
	for Organic farming.	
16	If so, area covered	
17	Assistance availed	
18	Available marketing facility	
	for the crop.	
19	Other infrastructure available	Shadenet House
	in the vicinity.	
20	General upkeep of the plot	Average
	(Very Good, Good, Average,	
	Poor)	
21	Any other relevant	Given separately
	observations by the J.I.T.	
22	Whether NHM Logo	
	displayed	

- 1. The plantation activities could not be physically verified as the road to the village was disrupted due to heavy rains on that day. However, the information gathered about plantation was through interview.
- 2. The location of the shadenet visited was not proper and there was no drainage facility.
- 3. The seedling grown there was damaged to rain water.

Suggestions:

- Proper selection of site is must for construction of polyhouse/shade net house. Technical expert of SHM /DHO should verify the area where such structures are being constructed.
- 2. District level officer/SHM should ensure that the system provider/fabricator are confirming to the design suitable for this area with proper construction material.

Photographs of JIT













Demonstrating canopy management in guava at Panki block Palamu.