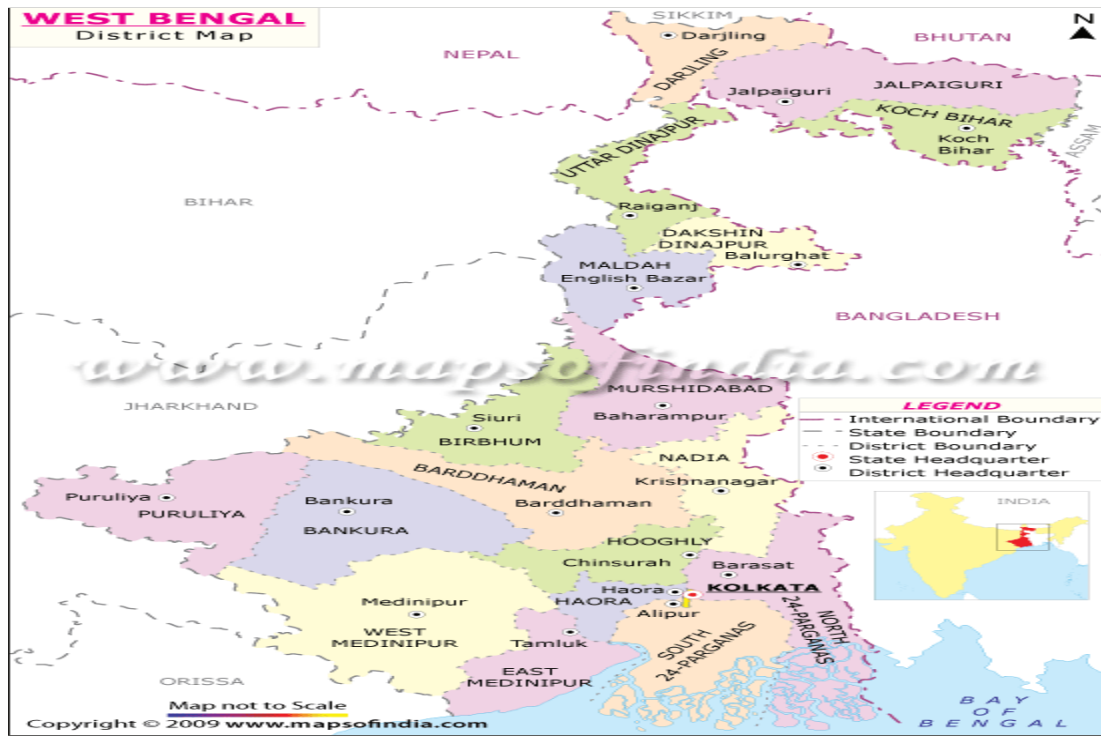


**REPORT OF JOINT INSPECTION TEAM IN ITS VISIT TO WEST BENGAL
DURING 12-17 DECEMBER, 2010**



NATIONAL HORTICULTURE MISSION
MINISTRY OF AGRICULTURE
DEPARTMENT OF AGRICULTURE & COOPERATION
KRISHI BHAVAN, NEW DELHI

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Observations of JIT

- Three tier system viz. Gram Panchayat, Panchayat Samiti and Zila Parishad in the State for identification of beneficiaries introduced is felt cumbersome. SHM has no role to play in the procedure of selection of beneficiaries.
- Sufficient staff has not been posted at District level / Block level. District Horticulture Officer looks after the activities of the programme.
- Field consultants appointed at Block level on contractual basis not only attend to the work of National Horticulture Mission programme but are undertaking the work of other Schemes of Horticulture Department viz. RKVY, ATMA, National Mission on Medicinal Plants, National Bamboo Mission etc. Field Consultants so appointed are paid honorarium of Rs. 6000/- only which is a meager amount keeping in view the volume of the work. They leave the job when they get the better opportunity which hampers the field work relating to the Scheme.
- The engaged consultants have to incur towards transportation and daily expenses from the honorarium of Rs. 6000/- while visiting the areas of Block level where the programme of NHM is being implemented.
- Procedural delay is caused in approval of projects, release of funds etc. as the Account at district level is being jointly operated by the District Horticulture Officer and ADM of the District nominated by the District Magistrate.
- Poor publicity of NHM programme of its various components at Block level has been observed .
- Sufficient funds under the Scheme are not allotted to the left extremism affected district viz Bankura and Purulia.
- Wasteland with low water table is amply available which require development of irrigation facilities
- The patches visited in 24 South Paraganas, Bankura and Purulia were established in 2006-07 and 2007-08 which have also not been properly maintained.
- Community based area expansion projects implemented in tribal areas have been observed as successful.

Actionable Points to be addressed by State Horticulture Mission, West Bengal.

1. Sufficient staff needs to be appointed at Block level for effective implementation.
2. Field consultants may be appointed exclusively with enhanced honorarium to look after the work relating to NHM activities.
3. SHM may play important role in identification of beneficiaries under NHM programme to lessen the procedural delay.
4. Qualitative plating material may be ensured to the beneficiaries.
5. Adequate funds may be allocated to the left wing extremism affected districts of the state.
6. More focus may be given on development of irrigational facilities namely, Water Harvesting Structures and these may be linked to the Micro Irrigation System.
7. Emphasis may be given on the development of PHM (Post Harvest Management) and Market Infrastructures.
8. Extensive publicity may be done to NHM programme at village / block level.
9. Farmers may be given proper Training may be imparted to farmers in various horticulture activities.
10. The NHM logo needs to be displayed on the sites developed with NHM assistance.

Report of the Joint Inspection Team under Leadership of Shri Om Prakash, Additional Commissioner, NHM, on its visit to West Bengal during 12-17 December, 2010 to review the progress under the National Horticulture Mission

The Joint Inspection Team (JIT) comprising Shri Om Prakash, Additional Commissioner, National Horticulture Mission and Shri P.S. Kohli, Resource Person, National Horticulture Mission visited West Bengal during 12-17 December, 2010 to review the progress under National Horticulture Mission programme in the State. Other members of the team viz. Dr. Bikas Ghose, Prof. Head, Department of Food and Orchard Management, Bidhan Chandra Krishi Vishwavidhalaya, Nadia, Dr. K.N. Tiwari, Professor & PI (PFDC), Department of Agri & Food Engineering, Institute of Technology, Khargpur and Dr. Venketesh Huaali, Directorate of Cashew and Cocoa Development, Kochi could not join the Team. However, Dr. M.K. Mazi, Research Associate represented Institute of Technology, Khargpur in the Team. Dr. Razat Pal, Assistant Director, Directorate of Horticulture, Government of West Bengal coordinated the field visit to South Parganas, Bankura and Purulia Districts of the State. A wrap up meeting held with Shri Laima Chozah, Secretary (Food Processing Industries & Horticulture) and Dr. P.K. Parmanick, Mission Director, Government of West Bengal on 16th December, 2010..

Introduction

The West Bengal is an agrarian state with the rural population of more than 72%. The economy of West Bengal is well diversified and agriculture in West Bengal contributes 24% of State GDP and around 70 percent of the population is dependent upon agriculture directly or indirectly. The Net sown area is 60% of total Geographic area against national average of 46%, the Gross cropped area exceeds 97 lakh hac with cropping intensity of 184%. Small and marginal farmers account for 95% of total farmer population and own 79% of net cultivated land. Irrigation covers 45% of net cropped area. There is a high reliance on monsoons. West Bengal is the highest producer of vegetables in the country and seventh in the production of fruits. Horticultural crop covers 24% of net cultivable area in the State.

Land Use Pattern in West Bengal

Total geographical area	8875200 ha
Cultivable area	8686639 ha
Net sown area	5354196 ha
Gross cropped area	9510423 ha
Cropping intensity	184%

Area, Production and Productivity of Horticultural Crops in West Bengal

Crop	AREA ('000 HA)			PRODUCTION ('000 MT)			PRODUCTIVITY (MT/HA)		
	2004-05	2008-09	Increase %	2004-05	2008-09	Increase %	2004-05	2008-09	Increase %
Fruit	166.29	203.2	22.22	2128	2775.60	30.42	12.80	13.66	6.70
Vegetables	868.41	922.8	626	10997	12803	16.43	12.66	13.87	9.57
Flower	17.925	21.07	17.55						
Cut Flower Production (Crore Sticks), Productivity (Lakh sticks/ha)	6.624	8.46	27.72	89.63	212.33	136.90	1.35	2.51	85.48
Loose Flower	11.301	12.6	11.49	44.67	52.01	16.43	3.95	4.13	4.43
Spices	97.504	114	16.92	212.5	304.63	43.36	2.18	2.67	22.61

Horticulture in the State

With a production of 26 m. MT of horticulture produce from an area of about 1.69 m. ha., West Bengal is the largest producer of horticultural crops accounting for 12.11% of total horticultural production in the country.

The major horticulture produce comprises vegetables (87.33%). The State produces 26 m. MT of vegetables from an area of 1.69 m. ha. with the productivity of 15.34 t/ha.

The production of fruits comprises 10.68 % of total horticultural crops in the State.

Brinjal

- West Bengal ranks first in the production of brinjal in the country and accounts for 26.61% of total production of brinjal in the country.
- The State produces about 2.76 m. MT of brinjal from an area of 0.1165 m. ha. with the productivity of 17.8 t/ha.
- The major brinjal producing belts in the State are Hoogly, 24-Paraganas and Burdwan.

Potato

- West Bengal is the second largest producer of potato in the country and accounts for 28.8% of the total production of potato in the country.
- The State produces about 9.90 m. MT of potato from an area of 0.40 m. ha. with the productivity of 24.7 t/ha which is the highest in the country.
- The availability of cold storage is inadequate in the State when compared to its production.

Cabbage

- West Bengal is the highest cabbage producing State in the country and accounts for 29.7% of total production of cabbage in the country.
- The State produces about 2.0242 m. MT of cabbage from an area of 0.07 m. ha. with productivity of 27.6 t/ha.

Cauliflower

- West Bengal is the highest cauliflower producing State in the country and accounts for 26.7% of total production of cauliflower in the country.
- The State produces about 1.70 m. MT of cauliflower with an area of 0.07 m. ha. with the productivity of 25.4 t/ha.

Okra

- West Bengal is the highest okra producing State in the country and accounts for 18.4% of total production of okra in the country.
- The State produces about 0.8 m. MT of okra from an area of 0.07 m. ha. with the productivity of 11.4 t/ha.
- The major okra producing belts in the State are Hoogly and Burdwan.

Sweet Potato

- West Bengal is the third highest sweet potato producing state in the country and accounts for 20.6% of the total production of sweet potato in the country.
- The State produces about 0.23 m. MT of sweet potato from an area of 0.02 m. ha. with the productivity of 10.3 t/ha.
- The varieties of sweet potato recommended for the State are Rajendra, Sakarkand (RS) 5, RS 35, RS 43.

Tomato

- West Bengal is the fifth highest tomato producing State in the country and accounts for 9 % of total production of tomato in the country.
- The State produces about 1 m. MT of tomatoes from an area of 0.05 m. ha. with the productivity of 19.1 t/ha.

Peas

- West Bengal is the fifth leading peas producing state and accounts for 4.3 % of the total production of peas in the country.
- State is producing about 0.12 m MT of peas from an area of 0.02 m ha. with the productivity of 5.9 MT/ha.
- Major peas producing belts in the state are Nadia, Hoogly, 24 Paraganas.

Pineapple

- West Bengal is the highest pineapple producing State in the country and accounts for 21.2% of total production of pineapple in the country.
- The State produces 0.28 m. MT of pineapple from an area of about 0.01 m. ha. with the productivity of 29.7 t/ha.
- The major pineapple producing belts in the State are North Dinajpur, Darzeeling and Jalpaiguri.

Papaya

- West Bengal is the fourth largest producer of papaya in the country and accounts for 8.7% of the total production of papaya in the country.
- The State produces 0.31 m. MT of papaya from an area of 0.01 m. ha. with the productivity of 29 t/ha.
- The major papaya producing belts in the State are North 24-Paraganas and Hoogly.

Banana

- West Bengal accounts for 3.6% of total banana production in the country. The State produces 0.95 m. MT of banana from an area of 0.04 m. ha. with the productivity of 23.9 t/ha.
- Banana cultivars grown in the state are Champa, Mrtman Rasthali, Amrit Sagar, Giant Governor and Lacatan.

Mango

- West Bengal accounts for 4.3% of total production of mango in the country. The State produces 0.55 m. MT of mango from an area of 0.09 m. ha. with the productivity of 6.4 t/ha.
- Commercial mango varieties grown in the State are Fazli, Gulabkhas, Himsagar, Kishenbhog, Langra and Bombay Green.
- The availability of post harvest management of fruits is inadequate in the State.

Guava

- West Bengal is the fourth largest producer of guava and accounts for 7.5 % of total production of guava in the country.
- State produces about 0.17 m Mt of guava from an area of 0.01 m ha. with the productivity of 13.7 MT/ha.

Plantation Crops

- West Bengal is one of the major plantation crops producing state in the country. In production of Arecanut, state is ranked at fourth place and fifth in coconut.

(Source: - Indian Horticulture Database 2009, National Horticulture Board)

NHM interventions in West Bengal

The National Horticulture Mission (NHM) is being implemented in the State since 2005-06, in a Mission mode by adopting cluster approach for holistic development of Horticulture

The scheme is being implemented in 14 identified potential districts. The district covered under NHM includes Malda, Murshidabad, Nadia, Hooghly, Purulia, Bankura, North 24-Parganas, Darjeeling, Jalpaiguri, Paschim Midnapore , Birbhum, Coochbehar, Purvi Midnapore and South 24-Parganas.

The focus crops covered under the programme include Mango, Pineapple, Banana, Orange, Guava, Cashew, Litchi, Flowers, Spices and Betel vine.

Major activities being undertaken in the programme are production and distribution of quality planting material, vegetable seed production, rehabilitation and setting up of tissue culture labs, area expansion, rejuvenation of old and senile orchards, creation of community water resources, protected cultivation, INM/IPM, organic farming, development of Post Harvest Management and marketing infrastructure and Human Resource Development.

The Annual Action Plan of SHM, West Bengal for 2010-11 has been approved for Rs. 51.88 crore including GOI share of Rs. 44.10 crore. During the year Rs. 16.00 crore have been released. So far an expenditure of Rs. 30.48 crore has been reported.

Year-wise details of Outlay, Funds Released and Expenditure under NHM in West Bengal

(Rs. In lakh)

Year	Outlay	Releases	Expenditure	Balance
2005-06	8451.00	4035.31	0.754	4034.56
2006-07	9377.00	4600.00	1013.19	7621.37
2007-08	3114.51	681.82	2500.65	5802.54
2008-09	4765.10	607.20	2893.66	3516.08
2009-10	3627.38		3234.92	281.16
2010-11	4409.80	1600.00	3047.80	

Component wise details of Progress under NHM in West Bengal

Sl. No.	Component	Phy (Ha/No.)	Fin (Rs. in lakh)	Percentage Expenditure to Total Expenditure
1	Nursery	108	275.82	2.29
2	Area Coverage	41392	5603.04	46.62
3	Rejuvenation	6129	881.07	7.33
4	Development of Water Resources	295	615.02	5.12
5	Protected Cultivations	914	131.83	1.10
6	Organic Farming	8856	623.28	5.19
7	Vermi Compost Units	2467	710.85	5.91
8	Integrated Pest Management (IPM)	21349	213.49	1.78
9	IPM Infrastructure	13	323.28	2.69
8	HRD	420	79.80	0.66
9	Post Harvest Management	34	928.76	7.73
10	Rural Markets/Infrastructure	13	69.30	0.58
11	Mission Management/Other Innovative		724.53	6.03
	Total		12018.38	

Area Expansion

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

Table-: Coverage under New Gardens

(Area in ha, Rs. in lakh)

Year	Target		Achievement	
	Physical	Financial	Physical	Financial (GOI)
2005-06	19771.90	1930.74		
2006-07	12809	2049.97	4001	434.94
2007-08	1650	206.72	8020	1014.28
2008-09	2610	392.27	10339	1128.00
2009-10			10385	1279.93
2010-11	4205	683.21	8647	1462.14
Total	41045.9	5262.91	41392	5319.29

Production of Planting Material

In the State, 7 model nurseries and 101 small nurseries have been established under NHM programme for production of superior quality planting material of improved varieties for establishing new orchards. The demand for planting material for year 2010-2011 is 6.3 lakh the capacity of production from these nurseries is around one crore and forty four lakh. Hence a substantial amount of planting materials are generated as surplus which are either used for back yard gardening in the state or transported out in the neighboring states of Jharkhand, Bihar and Orissa.

Scheme	No. Established	No. Proposed	Total Nursery	No. of Planting Material Produced	Requirement of major Planting Material	Excess of Planting Material Produced
Model Nursery (Public 4 ha)	6	3	9	36,00,000		
Model Nursery (Private 1 ha)	107	7	114	1,14,00,000		
Model Nursery		1	1	1,00,000		

(Public 1 ha)						
				1,51,00,000	6,30,000	1,44,70,000

Status of Projects of Post Harvest Management

The status of projects sanctioned under Post Harvest Management component in the State is as under:-

Post harvest projects 2006-07, 07-08, and 08-09

S. No.			Project Cost	Admissible project cost	Assistance approved by EC, NHM, GOI (Rs. in lakh)	Total subsidy released (Rs. L)
1	P.B. Enterprises, Vill-Assam More, Dist-Jalpaiguri	Pack House, Collection Grading Sorting Unit	24.78		4.31	2
2	M/s Krishna Agri. Pvt. Ltd., Lakurdi, Burdwan	Multi Cold Store	365	200	50	27.43
3	M/s Kedia MPC Pvt. Ltd., Berhampur, Murshidabad Vill & P.O.- Jiaganj, Murshidabad-742123	Multi Cold Store	505.36	80	20	20
4	M/s Manbhum Larzed Sized Multipurpose Co-op Soci. Vill & PO Manbazar, Dt.-Purulia	Multi Cold Store	216	200	50	50
5	M/s Rafiqul Mollah, Borosona, Burdwan	Collection & Grading Sorting Centre	15	15	3.75	3.75
6	M/s WBSFP & HDCL, Mayukh, Salt Lake	Refer Van			11.8	11.8
7	M/s Chakraborty Estates Pvt. Ltd. Dhamia (West),	Multi Cold Store	261		22.23	16.55

	Masdunda, 24 Pgs (N)									
	Total									131.53

Multipurpose Cold Storage 2009-10

S.No	Name & Address of the project	Name of Partner/Director	Project Cost	Admissible project cost	Assistance approved by EC, NHM, GOI(Rs in lakhs)	Part subsidy released	Final subsidy released	Total subsidy released	Sponsoring Bank	Capacity
1	M/s Tanmoy Mondal (Himalaya cold storage), Vill Bohara, P.O. Kotasur, Dt-Birbhum	M/s Tanmoy Mondal			20.00	10.00	10.00	20.00	UBI Ahmedpur Br. Vill+P.O. Ahmedpur, Birbhum	
2	M/s Sagarika MPC & Food Processing Pvt. Ltd., Noida Vill.-Sutarghaohi, P.O. Simurali, Pin-741 248		213.44	116	29.0	14.5	14.5	29.0	Allahabad Bank, Kalyani Industrial Estate Br. Kalyani	
3	M/s Baba Biswakarma MPC, Gamar, Rani bazaar, P.O.-Thupsara Dt-Birbhum, Pin 731215	Prof. Bishnu Roy etc.	540.82	200.00	50.00		50.00	50.00	PNB, Khatier, P.O. Kalanpur, Dt. Burdwan	10000 MT
4	M/s B.B.S MPC (Bagdah Biswambhar Shyamlata) Vill-Kola, P.O. Bagdah, Dt-North 24 Pgs.	Sreekrishna Biswas	212.78	128.0	32.0		32.0	32.0	Allahabad Bank, Zonal Office, Barasat	3200 MT
5	M/s Poddar Brothers Himghar Pvt. Ltd. Haldinala, P.O. Garbeta, Dt.	Mohanlal Poddar, MD	218.6	200	45		45	45	UCO Bank Khirpai Br. Dt. Paschim Midnapur	4500 MT

	Paschim Midnapur									
6	M/s Matri Mandir Himghar Pvt. Ltd., Nagrpara P.O. Mahanand, P.S. Polba, Hoogly	Laxman CH. Paul, MD	217	196.77	49.19		49.19	49.2	Union Bank, Ramesh warpur, Br., Ramesh warpur Hoogly	5000 MT
7	M/s Deluxe Ice and Cold Storage Pvt. Ltd., 73 GT Road, Moujakotrun g, PO Hind Motor, Hoogly	Santu Saha	133	88	22		22	22.0	State Bank of Bikaner and Jaipur, Azad Hind Bagh Branch	2200 MT
8	M/s Sahapur Multipurpus Storage, PO Prabhat Pur, DT. Burdwan	Asit Kumar Dey			13	6.25		6.25	UBI Calcutta Br. , 4 NC Dutta Sarani, Kolkatta	1250 MT
	Total					30.8	222.7	253.4		
	Peer Gorachand MPC, North 24 Pgs		57	57	3			3	Allahabad Bank Zonal Office Barasat	300 MT
	Project :- functional sorting grading unit									
	M/s swapan Choudhary, Vill Samanti Dt. Burdwan		9.34		2.34	1.17	1.17	2.34	SBI	

**Multipurpose Cold Storage 2010-11
(Proposed)**

S.No	Name & Address of the project	Name of Partner/Director	Project Cost	Admissible project cost	Assistance approved by EC, NHM, GOI(Rs. in lakhs)	Part subsidy released	Final subsidy released	Total subsidy released	Sponsoring Bank	Capacity
1	M/s Radha Govinda Cold storage Pvt. Ltd	Madhos odan Mandal	700.09	300	120			120	UBI Kolk ata Branch	1510 0 MT

	, Mouza Piasala, PO Hoomgarh, Dt. West Madinapur									
2	M/S Biswajani Cold Storage Pvt. Ltd Mouza kanchgeria PO Burapet PS Anandpur, Dt West Midnapur	Surendra Nath Ghose	678.22	300	120			120	UBI Bura gat	15000 MT
3	M/s Narendranath Cold Storage Pvt. Ltd Mouza Nishchantapur Po Kiaboni, PS Garbeta Dt. West Midnapur,	Nimai Chandra manna	665.2	300	120			120	UBI Kolkata Br.	15000 MT
4	M/s Srimanta Developers Pvt. Ltd. Vill Givindapur. P.S.	Mr. Srimanta Patra etc.	277.01							3500 MT

	Dadpur, Dt. Hooghly									
5	M/s Sree Gouran ga Himghar Pvt. Ltd., Vill + PO Seakhal a, P.S. Chan ditala, Dt- Hooghly		56.1 6	56.16	22.46			22.4 6	UBI Rameshwar pur Br. Hooghly	5075 MT
6	M/s Mascot Wood Crafts Pvt. Ltd. 65/1 Maharshi Debandra Road, Kolkata - 700006	Mr Narayan Saha	868	300	120			120	SBI Chowringhee Br. Kolkata	7000 MT

Beneficiaries under NHM

During 2009-10, the status of beneficiaries covered under NHM programme is as follows:-

S.No.	Name of component	2009 -10				
		Number of beneficiaries				
		General	SC	ST	Women	Total
1	Model Nursery Private Sector (1 ha)	1	1	0	0	2
	Model Nursery Private Sector (4 ha)	27	7	2	8	44

2	Tissue Culture lab Private					0
3	New Garden/Area Expn					0
4	Perennia Fruit-New	6794	2356	1107	4803	15060
5	Non-Perennial Fruit	4935	1918	712	3398	10963
6	A. Cut Flower					0
7	a. Small & Marginal	1454	478	205	697	2834
8	b. Others	103	23	6	58	190
9	B. Bulbous					0
10	a. Small & Marginal	2429	913	421	1658	5421
11	b. Others	154	33	15	54	256
12	C. Loose Flower					0
13	a. Small & Marginal	1263	431	237	994	2925
14	b. Others	38	11	3	17	69
15	Spice	1446	627	319	1377	3769
16	Plantation Crops-New	1479	393	167	788	2827
17	Rejuvenation	942	231	95	432	1700
18	Creation of Water Resources	116	61	32	59	268
19	Protected Cultivation					0
20	Green House Hi -Tech	2	1	0	0	3
21	Green House Normal	1	1	0	0	2
22	Mulching	25	10	7	11	53
23	Shade Net	73	23	11	65	172
24	Plastic Tunnel	13	6	2	8	29
25	Promotion of IPM	6140	2214	1046	5761	15161
26	Adoption of Organic Farming	910	373	161	766	2210
27	Vermi-compost unit	462	281	158	857	1758
28	Pollination Support (bee-keeping)	208	110	44	269	631
	Total	29015	10502	4750	22080	66347

Field Visits

Joint Inspection Team visited South 24 Parganas , Bankura and Purulia districts of the State during 13th December, 2010 and 16th December, 2010.

Beneficiaries are identified by three tier Panchyat System viz Gram Panchayat (Village level), Panchyat Samiti (Block level) and Zila Parishad (District level). Sabhadipati of Zila Parishad is the Chairman of District Mission Committee (DMC) which monitors and supervise the programme in the District. The field consultants have been appointed at each block to receive applications from farmers and to monitor those schemes at Panchayat Samity and Gram Panchyat level. The Executive Officer, Panchayat Samity sends the list of beneficiaries to the convener after verifying all the related papers. The DMC sub-allot the funds to the Executive Officer, Panchyat Samity as per requirement of respective block.

Funds under the NHM programme are released by SHM to District Horticulture Officer by ECS/Cheques which are jointly operated by DHO and ADM of the district nominated by the District Magistrate. ADM approves programme/projects of the district.

Visit to South 24 Parganas

The JIT covered South 24 Parganas district on 13th December, 2010. Shri Atanu K. Gupta, District Horticulture Officer, Shri Gaurav Burman and Ms. Trisha, Field Consultants accompanied the Team.

At district level, sanctioned posts are of DHO, LDC and Peon. An Accountant cum clerk and 23 Field Consultants have been posted at Block level on contractual basis.

The district of South 24 Parganas has 29 agricultural blocks. Horticulture sector comprises large variety of fruits, vegetables, flowers, medicinal and aromatic plants, plantation crops, spices, mushrooms, ornamental plants. In the district, an area of 12780 ha. is under fruits, 69720 ha. under vegetables, 6350 under spices and 690 ha. under flowers.

Progress under NHM Programme

Component	Target		Achievement		Balance		Remarks
	Phy	Fin (lakh)	Phy (ha.)	Fin (lakh)	Phy (ha.)	Fin (lakh)	
Model Nursery (Pvt. Sec)	6.00 no.	9.00	5.9	8.85	0.1	0.15	Committ ed
Tissue Culture Lab.	1no.	4.00	1	4.00	Nil	Nil	
Area Expansion	1381.71 ha.	168.27	1381.71	168.27	Nil	Nil	
Protected Cultivation							
Green House (Hi-tech)	4 no	6.50	2	3.25	2	3.25	Committ ed
Green house normal	1 no	1.25	Nil	Nil	1	1.25	Committ ed
Shadenet	175 no	6.125	175	6.125	Nil	Nil	
Shade net (Bamboo)	10 no	12.75	Nil	Nil	10 no	12.75	
Shade net (Tuber)	20 no	51.00	Nil	Nil	20 no	51.00	
Plastic Tunnel	35 ha	1.75	35 ha	1.75	Nil	Nil	
Promotion of IPM	1400 ha.	14.00	1400 ha.	14.00	Nil	Nil	
Vermi compost Unit	110	30.75	110	30.75	Nil	Nil	
Construction of low cost Onion Storage	32 no	0.96	32 no	0.96	Nil	Nil	
Training	10 no	1.02	Nil	Nil	10 no	1.02	
Exposure visit of farmers within Distt.	10 no	0.6375	Nil	Nil	10 no	0.6375	
Mission Management		45.86		45.30		0.56	
Grand Total		353.89		283.27		70.61	



vermi compost unit,
nimpith, south 24 pgs



Tissue Culture Lab.
Nimpith, 24 pgs (s)





During visit, the progress of programmes of protected cultivation, disease forecasting units, tissue culture labs, hi tech green house, micro irrigation , Vermi compost units was reviewed J.I.T. visited the following patches of South 24 Paraganas District.

S . N	Name of the Beneficiary	Address	Crop	Year of Plantation	Area in Hect.	Nos. planted	Nos. survived as on date of inspection	%age of survival	Observations
1	S. Samsuddin	Vill . Kankhuli Thakurp ukar Block	Hi-tech Green House Fruits, decorative/ornamental plants	2007-08	0.134 ha.				Subsidy of Rs. 1.625 lakh paid. Well maintained, capacity underutilized, Drip from NHM, Subsidy of Rs. 13400 paid. NHM logo not displayed, Benefited through NHM programme
2	Shambunath	Vill. Aamtala Block Bishanpur	Vermi compost unit	2007-08					Subsidy of Rs. 10,000 paid, NHM logo displayed. Subsidy was given for 4 pits but now owns 60 pits and impart training to other farmers. Production is 8ton per month and selling @ Rs, 6/kg. in local market
3	RK Ashram Krishi Vigyan Kendra	Nimpith	Hi-tech Green House	2009-10					Drip from ICAR, Subsidy of Rs. 62500 paid on 31 st March, 2010, Vegetable seedling of capsicum & leafy vegetables, underutilized due to salinity, NHM logo displayed

4	RK Ashram Krishi Vigyan Kendra	Nimpith	Sprinkler	2007-08	0.072 ha.				Subsidy of Rs. 51231 paid, Amaranthus, Palak, Sweet Potato, status of crop good
5	RK Ashram Krishi Vigyan Kendra	Nimpith	Disease Forecasting Unit	2007-08					Subsidy of Rs. 4 lakh released, Equipments – METOS, MCR – 300, recurring cost by revolving fund of Ashram
6	Vivekananda Institute of Biotechnology	Joynagar, Nimpith	Estt. Of Tissue Culture Lab	2007-08					Subsidy of Rs. 4 lakh released, Banana Tissue plantlets, Approx. 16,000 samples analyzed, Approx. 50,000 plantlets produced and 34567 supplied free of cost , rest sold @Rs. 10.00 per piece to farmers. NHM logo not displayed.

Details of the beneficiaries visited in the district are annexed.

Visit to Bankura District

The JIT covered Bankura district on 14th December, 2010. Shri Supertrik Maitra, District Horticulture Officer, Dr. Razat Pal, Assistant Director, Directorate of Horticulture and Dr. M. K. Mazi, Research Associate, PFDC, Kharagpur accompanied the Team.

Total area of this district is 688200 ha out of which forest area is 147700 ha, while the high land and medium land are 1,76,915 and 1,50,611 ha respectively. There lies scope for integrated land and water development under micro-watershed approach. In fact, on an average Bankura gets a rainfall of 1400 mm and there is a huge scope for surface water based irrigation system. The agro-climatic condition of the district is suitable for plantation and horticultural crops. The district with dry climatic condition and vast wasteland has great potential for undertaking plantation and horticultural activities like mango, guava, citrus fruits and medicinal and aromatic plant. Size of agricultural holding is less than one ha for 67 percent and less than two ha. for 90 percent holding size. Considering the poor irrigation facilities, low fertility and resultant low productivity, such holding pattern is not able to make much impact on the quality of life of people at large. Unconducive topography, very small size of the land holdings, poor irrigation coverage, low water retention capacity of soil etc. offer limited scope for farm mechanization. Use of farm mechanization in agriculture is low also due to lack of awareness among farmers. Land utilization pattern reveals that only 59.5 percent of total land is under cultivation.

The District comprises 22 Blocks. District Office of Horticulture is running in poor infrastructure facilities with 2 no of permanent staff which another 3 no post are lying vacant. Sub divisional and block setup has yet not been recruited any permanent Officer or staff to implement the departmental, GOI Scheme like National Horticulture Mission, National Bamboo Mission, Micro Irrigation Scheme, RKVY, only one Account Clerk and 12 no of Field Consultant are working under National Horticulture Mission on contractual basis till date.

As stated by the District Horticulture Officer, Bankura District is naxal prone. At present 50% of the Blocks of the Districts are affected by the naxal activities. He also pointed out that due to naxal activities; the outlay for implementation of the National Horticulture Mission programme is allotted less in comparison to other NHM districts. The total outlay of the year 2009-10 is Rs. 54 lakh.

Component wise progress report under National Horticulture Mission from 2006-07 to 30.11.2010

Scheme	Fund Received upto Nov 2010		Refund back for the year 2009-10		Achievement upto Oct'2010		Achievement for the month Nov'2010		Net Balance	
	Phy	Fin (lac)	Phy	Fin (lac)	Phy	Fin (lac)	Phy	Fin (lac)	Phy	Fin (lac)
Model nursery public sector (4ha)	8	12			8	61			0	0
New Garden/Area Expn (ha)										
Perennial Fruit-New (ha)	4700	5217489	1400	157,5	2613	28829005			687	75,9584
Perennial Fruit-Maintenance (ha)	500	225			3536	1591162			1464	658838
Plantation Crops-New (ha)	433	2490625	70	39375	3025	1613625			605	48325
Plantation Crops-Maintenance (ha)	240	54							240	54
Creation of water resources (Nos.)										
Water Resources (Pond) (Nos)	20	200			20	200			0	0
Dug Well (Nos)	50	969							50	969
Mulching (Unit)	1592	1115			145	1015			142	1
Plastic Tunnel (Unit)	100	5	100	5					0	0
Organic Farming (Unit)										
Adoption of Organic Farming	650	65			1809	1809769			4691	4690231
Vermi Compost Unit	160	4575			98	2905			62	167
HRD Institute (Nos)										
Training (Nos)	15	2907			2	078809			13	211891
Farmers training & visit (Nos)	10	06375							10	06375
Mission Management		883				1000653		00216	0	-119813

(maintaince)										
Mission Management (remuneration)		410955				3927971		07599	0	105589
Grand Total		97661014		1664375		63380994		07815	0	1755812

District Horticulture Officer mentioned that NHM programme in the district has come in a big way in increasing the area and production of horticulture crops and creation of employment opportunities the farmers have been motivated to utilize the waste land and adopted intercropping. It was also pointed out that there was a lack of convergence of NHM programme with different schemes like NREGA and lack of awareness among the beneficiaries on diversified farming.

During field visit, the progress of programmes of area expansion, model nursery, creation of water harvesting structure, was reviewed J.I.T. visited the following patches of Bankura District

S . N	Name of the Beneficiary	Address	Crop	Year of Plantation	Area in Hect.	Nos. planted	Nos. survived as on date of inspection	%age of survival	Observations
1	Shri P. Nath	Jibtya Village	Model nursery Guava, mango, lemon, spota, banana	2009-10	1	2 Lakh	1.60 lakh	80%	Mother plants procured from BCK vishwavidyalya, subsidy of Rs. 1.5 lakh released by cheques, 1.05 nos. of plants were soled , capacity of shadenet under utilized, NHM logo displayed.
2	Shri Aditya	Village Bishnupur	Area Expansion, Mango orchard, Alphonso, Amarpali malika	2006-07	4	2000	2000	100%	Subsidy of Rs. 37000 released, Borewell driped, mulching from NHM, Mother plants procured from BCK vishwavidyala

									ya, Poor maintenance, , weeding , plants affected with leaf borer and cutterpillar diseases, spray of methyl, dino.... was recommended , intercropping of ginger and turmeric was recommended to the beneficiaries, NHM logo not displayed.
3	Cluster of 200 tribal farmers	Shukabari orchard association	Community tank, irrigating mango orchard	2007-08		1620 plants	1400		Inputs were given through NREGA tank yet to be linked with MIS, irrigation of mango orchard by buckets, plastic lining of tank very poor quality, orchards well maintenance NHM logo not displayed

Details of beneficiaries visited are annexed.

Visit of Purulia District

In West Bengal, Purulia district is popularly known as drought prone although the district having an average rainfall of 1300-1400 m.m. per year. The major part of the district is characterized with undulating topography. The soil is light textured with high porosity and poor water holding capacity. Due to continuous erosion of soil micronutrient deficiency is common in upland and medium high land situation.

As the district is drought prone and having huge tract of wasteland with low water table and lack of irrigation facilities, the district have greater potentiality for development of horticulture in respect of fruit, flower, vegetable, medicinal plants etc. The district is left wing extremism affected district. Out of 20 blocks, 8 blocks are under extremism activities.

The activities under the intervention of NHM programme are overlooked by Shri Samanta Layek, District Horticulture Officers and 14 field consultants at block level. Field consultants in 6 blocks are yet to be appointed.

NHM Intervention

The major National level project/scheme handled in the district so far is National Horticulture Mission. Keeping in view the Geophysical condition of this district, area expansion programme/plantation of fruit plants in vast cultivable wasteland were given prime importance. The varieties of fruit plants were also selected keeping in mind the scarcity of water, lack of awareness among farmers about benefits fruit plants cultivation etc. Amrapali, Langra & Alphonso (on experimental basis) were selected as mango varieties, L-49 of Guava, Vengurla-4 of Cashew nut and Mosambi of Sweet Orange were selected for this purpose. The other schemes of this Mission were Creation of Water Resources, Organic Farming, Preparation of Vermi compost pit, Establishment of Model Nursery for fruit plants etc. were also taken up for implementation.

S.No.	Scheme	Target (Released from H.Q.)		Total Achievement		Achieve for 15.09.10 (dt.) to 31.09.10 (dt.)		Net Balance	
		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	Model nursery pvt. Sector (1 ha)	17	25.50	3	4.5			14	21.0
2	Perennial fruit-new	3880	428.06815	3500	388.75658			380	39.31157
3	Perennial fruit-maintenance	850	38.25	1419	63.855			-569	(-)25.605
4	Flower								
(i)	Cut Flower	5	1.75	5	1.75			-	0
(ii)	Bulbous	5	2.25	5	2.25			-	0
(iii)	Loose Flower	5	0.60	5	0.60			-	0
5	Plantation crop – new	545	30.65625	334.87	19.70949			210.13	10.94676
6	Plantation crop-Maintenance	220	4.95	123.7	2.78			96.3	2.17
7	Creation of Water Resources	20	200.0	20	200.0			0	0
8	Mulching	145	10.15					145	10.15
9	Plastic Tunnel	160	8.0					160	8.0
10	Adoption of Organic Farming	650	65.00	650	65.00				
11	Vermi Compost unit	135	40.5	170	51.0				(-) 10.5
12	HRD	3	1.275	4	1.5				(-) .225
13	Construction of low cost storage for onion bulbs @ Rs. 3000 per unit		14.18994						
14	Dug Well	50	9.4991						9.4991
15	Vermi Compost Unit	50	12.75						12.75
16	Training of Farmers (within district)	10 no.	1.02						1.02
17	Exposure visit of farmers within district	10 no.	0.6375						0.6375
18	Mission Management (including F.C's Remuneration)***	-	51.7315	-	49.1705				2.561
	Grand Total		932.5875		850.8716				81.71593

National Horticulture Mission Purulia has also financed to establish a Multipurpose cold storage in Manbazar-I block which will help to fulfill the needs of fruit, vegetable grower of surrounding regions & to reduce glut during peak production season.

Progress Report of Micro Irrigation Schemes in Purulia District as on 30.11.2010

S.No.	Name of the scheme	Target		Achievement		Balance	
		Phy.	Fin. (Rs. in lakh)	Phy. (in ha)	Fin. (Rs. in lakh)	Phy. (in ha)	Fin. (Rs. in lakh)
1	Drip	119 ha	18.625	3.00	0.56580	116	18.0592
2	Drip DC	5 ha	2.235				2.235
3	Sprinkler	71 ha	4.5525	1.35	0.09703	69.65	4.45547
	Admn. Cost		0.25		0.25		0.0
	Grand Total				0.91283		24.74967

Beneficiary has been selected for Sl. No.-2 (DC), discussion with Jain Irrigation has been done for implementation of the scheme. Likely to be implemented. Shortly.

During visit, the progress of programmes of area expansion, multi purpose cold storages and micro irrigation was reviewed J.I.T. visited the following patches of Purulia District.

S . N	Name of the Beneficiary	Address	Crop	Year of Plantation	Area in Hect.	Nos. planted	Nos. survived as on date of inspection	%age of survival	Observations
1	Shri Dinesh Lal Singh Deo	Rajnoagarh , Mana Bazar	Area Expansion , mango, amrapali	2006-07 and 2010-11	2.0 + 1.5	800+ 750	1550	100%	Subsidy of Rs. 11500 disbursed , third installment is due, source of irrigation is pond, catter pillar , weeding, termite, infected , spray of copper sulfate and raw cow dung recommended , poor maintenance, crops status is good, micro irrigation, intercropping and mulching recommended , NHM logo not displayed
2	Shri Pradhasis Lal Singh Deo	Rajnoagarh , Mana Bazar	Area Expansion, mango, amrapali	2007-08	4	1600	1600	100%	Subsidy of Rs. 27800 disbursed, third installment

									due, source of irrigation is pond, catter piller , weeding, termite, infected , spray of copper sulfate and raw cow dung recommended , poor maintenance, crops status is good, micro irrigation, intercropping and mulching recommended , NHM logo not displayed
3	Chapati Mango Production Committee, mango cluster of 55 ST farmers	Rajnoagarh , Mana Bazar	Mango, Amrapali	2006-07 and 2007-08	8.6	2500 + 1000	2800	80%	Subsidy of Rs. 68500 disbursed in 2006-07 and Rs. 6395 disbursed in 2007-08, source of irrigation is dug well from RSVY scheme, identified beneficiary of MIS, 2010-11, catter piller , weeding, termite, infected , spray of copper sulfate and raw cow dung recommended , poor maintenance, crops status is good, micro irrigation, intercropping and mulching recommended NHM logo not displayed
4	Man bhum multipurpose cold storages, cooperative society 6000 MT	Shyampur , mana bazar	Potato, mahua, molasses, tamarind and vegetables	2007-08					Subsidy of Rs. 50 lakh disbursed, it needs exposure to other seasonal vegetables,

									fruits and flowers, condition of infrastructure is satisfactory, subsidy of 25% paid whereas it should be given 33% as the cold storage is located in tribal area, it needs modernization / extension, NHM logo displayed.
5	Kalaboni mango plantation, cluster of 35 ST farmers	Mana bazar	Mango, Amrapali	2009-10 and 2010-11	20	8000 + 2900	8175	75%	Subsidy of Rs. 73125 paid and 2 nd installment of Rs. 29340 is due, source of irrigation is cone and dugwell, crop status is excellent, catter pillar , weeding, termite, infected , spray of copper sulfate and raw cow dung recommended , poor maintenance, crops status is good, micro irrigation, intercropping and mulching recommended NHM logo displayed
6	Rama Krishna math Ashram	Puncha	Mango, Amrapali	2006-07	3.5	300	300	100%	Subsidy of Rs. 46000 paid, source of irrigation is borewell, drip from NHM, crops status is good, fertigation

During the discussion with district horticulture officer, it was pointed out that seed production of vegetables i.e. okra, cucumber, ridge gourd and bottle gourd could be exploited in the district. There is good potential for spices and condiments i.e. coriander, chilly, ginger and turmeric. The processing units could be established to process the horticulture products to prevent the glut. The scope also exists for cultivation of fruits i.e. guava, mosambi, mango, Cashewnut, bear and pomegranate on the red soils / upland of the district. The cultivation of flowers can be taken on pilot bases particularly on Jasmine and Rose for perfumery business and extraction of essential oil. Some suggestive measures for better horticulture growth in the district were also pointed out viz. establishment of more multipurpose cold storages Cashewnut processing units as the district has been included under 'Agri export Zone of Cashewnut', ensuring market linkages of medicinal plants/flowers, regulated markets more emphasis on Micro Irrigation scheme, training, transfer of technology in farmers field.

Highlights of Meeting with Secretary, Food Processing & Horticulture and Mission Director, Government of West Bengal

A wrap up meeting held with Shri Laima Chozah, Secretary (Food Processing Industries & Horticulture) and Dr. P.K. Parmanick, Mission Director, Government of West Bengal on 16th December, 2010. Based on the observations during the field visit, the following important issues were brought into their notice:-

- (a) Major focus in the state has been on area expansion wherein bulk of the expenditure has been incurred.
- (b) SHM intervention is needed to ensure production and availability of good planting material within reasonable distance.
- (c) Hi-tech interventions such as protected cultivation and fertigation needs to be promoted extensively.
- (d) Irrigation facilities such as community tanks etc are to be promoted in the Districts.
- (e) Efforts to train farmers in different horticulture activities are to be intensified.
- (f) Permanent display boards with NHM logo needs to be displayed wherever NHM assistance has been provided.
- (g) The pace of implementation of NHM programme needs to be accelerated.
- (h) More efforts are needed for development of post harvest management and market infrastructures.
- (i) SHM may play an important part in identification of beneficiaries and efforts are to be made to lessen the procedural delay in implementation of the programme.
- (j) Extensive publicity of the NHM programme is needed at the block level.
- (k) More funds are to be earmarked in Left Wing Extremism affected districts of the State.
- (l) Sufficient staff needs to be outsourced at block level for effective implementation of NHM programme in the State. The field consultants are required to be appointed exclusively for work relating to implementation of NHM programme.

Secretary, Food Processing & Horticulture and Mission Director, Government of West Bengal mentioned that the implementation of scheme of NHM in the State would be reviewed and assured the JIT that the pace of implementation of NHM scheme would be stepped up.