

**REPORT OF JOINT INSPECTION TEAM IN ITS VISIT TO  
WEST BENGAL  
DURING 22-24 JULY, 2015**



**Mission for Integrated Development of Horticulture Ministry of  
Agriculture Department of Agriculture & Cooperation Krishi  
Bhawan, New Delhi-110001**

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## Observation of JIT

- Three Tier System viz. Gram Panchayats, Panchayat Samiti and Zila Parishad in the State for identification of beneficiaries is felt cumbersome. SHM has no role to play in the procedure of selection of beneficiaries.
- Field consultants obtained at Block level on contractual basis attend multi-level duties apart from NHM programme. Field consultants so appointed are paid monthly honorarium of Rs. 6,000/- which is a meagre amount keeping in view the volume of the work. Moreover, they are not paid any TA/DA for visiting the Block areas. They leave the job very often for better opportunities which hamper the field work relating to scheme.
- Procedural delay is caused in approval of projects, release of funds etc. as the account at the district level is being jointly operated by the District Horticulture Officer / Deputy Director and ADM of the District nominated by the District Magistrate.
- Poor publicity of scheme & its components at Block level has been observed.
- Poor maintenance of batches visited was observed.
- Falta Block of 24 paraganas (South ) is well known for its production of ornamental plants and are exported to other states.
- Floriculture farmers felt that subsidy given under NHM for flower-plantation of less in comparison to high cost of cultivation.
- Lack of marketing facilities nearby flower cultivation belts was observed.
- No FPO of flower growers has been observed.
- During summer, a disease erupts in flower plants which have not been diagnosed.
- Proper coordination between DHOs and beneficiaries is required as maintenance fund lying unspent as farmers do not turn up to claim maintenance amount for 2<sup>nd</sup> & 3<sup>rd</sup> year.
- Lack of entrepreneurship among people for setting of infrastructures relating of PHM & marketing has been observed. There are no takers of these programmes.
- Demand for establishment of low cost onion storage is picking up and considered as one of the successful activities under MIDH.
- Sufficient staff has not been posted at District level.

## **Actionable points**

- Sufficient staff needs to be appointed at Block level for effective implementation/monitoring of programme.
- Field consultants may be appointed exclusively with enhanced honorarium to look after the work relating to NHM activities.
- SHM may play important role in identification of beneficiaries under NHM programme to lessen the procedural delay.
- Qualitative planting material may be ensured to the beneficiaries through accreditation of nurseries by NHB.
- Emphasis may be given on development of Post Harvest Management and Marketing infrastructures.
- Farmers may be imparted proper training in various horticulture activities.
- KVKs may be coordinated for implementation of horticulture activities.
- Extensive publicity of NHM needed to be taken up for awareness among farmers.
- The NHM logo needs to be made mandatory and displayed on the sites developed with NHM assistance.
- Disease ridden flower plants of Jaba needs IPM measures immediately.

**Report of the Joint Inspection Team (JIT) under Leadership of Shri Om Prakash, Additional, Commissioner, Mission for Integrated Development of Horticulture (MIDH), on its visit to West Bengal during 22-24 July, 2015 to review the progress under National Horticulture Mission (NHM) programme.**

The Joint Inspection Team (JIT) comprising Shri Om Prakash, Additional Commissioner, Mission for Integrated Development of Horticulture (MIDH), Shri Swarnendu Singha, Section Officer and Shri P. S. Kohli, Resource Person visited West Bengal during 22-24 July, 2015 to review the progress under National Horticulture Mission (NHM)- sub scheme of MIDH in the state. Other members of the Team viz. Dr. Bikash Ghose, Prof. Head, Department of Food and Orchard Management, Bidhan Chandra Krishi Vishwavidyalaya, Nadia and Dr. K. N. Tiwari, Professor & PI (PFDC), Department of Agriculture & Food Engineering, Institute of Technology, Khargpur could not make to the Team owing to prior engagements. A wrap up meeting was held with Dr. S. N. Khara, Deputy Director (Horticulture), South 24 Parganas on 23<sup>rd</sup> July, 2015.

## **Introduction**

West Bengal has the national advantage of diverse agro climatic conditions, which enables production of wide range of horticulture crops. The state is blessed with rich bio-diversity and varied agro-climatic condition, ideal for growing a large variety of horticultural crops comprising fruits, vegetables, floriculture, spices, plantation crops, Tuber, roots and aromatic plants. It has gained importance in terms of enhanced income per unit area, providing nutritional security, source of raw material for many food processing industries, earning considerable amount of foreign exchange, leading to socio-economic improvement of the people of the state.

Horticulture has emerged, as one of the major agricultural activities as there has been a substantial increase both in area & production of horticulture crops, providing higher productivity per unit of land as compared to other crops, resulting in higher income and employment generation in rural areas. West Bengal is the highest producer of vegetables in the country and seventh with production of fruits. Horticulture crops cover 24% of net cultivable area in the State. A separate Directorate of Horticulture under the Department of Food Processing Industries and Horticulture has been created for overall development of horticulture in the State.

## State Profile of West Bengal

### Overview

Geographical Area:	88752 sq. km.
No. of Agricultural Districts:	19 (Nos)
Agro climatic zones:	6 (Nos)
Cultivable Area:	8686639 ha
Net Area Sown:	52.94 lakh ha.
Gross cropped Area:	98.015 lakh ha.
Area under- non-agriculture used:	17.92 lakh ha.
Forest Area:	11.73 lakh ha.
Current fallows:-	2.87 lakh ha.
Cultivable waste land:-	0.316 lakh ha.
Barren & Uncultivable land:	0.211 lakh ha.
Permanent Pastures:-	62% of Net cropped Area
Total Nos of Agricultural holdings:-	6953922 (Nos)
Size of average land holdings:-	0.82 ha / holding

### Strength, Weaknesses, Opportunity & Challenges (SWOC) Analysis

#### Strength

- Varied agro climatic condition suitable for number of horticulture crops.
- Adoption of different cultivation in different agro-climatic condition making the availability of horticulture produce for prolonged period.
- Demand and choice of horticulture produce to developing day to day necessitating more and more produce day by day.
- Increasing demand of horticulture in drier lateritic tracts of West Bengal.

## **Weakness**

- Lack of inadequate quality planting material, improved hybrid seeds etc. and location specific technology adoption.
- Inadequate technical knowledge at various levels.
- Lack of awareness regarding pre and post harvest management practices, proper marketing infrastructure / marketing system with forward and backward linkages.
- Slow promotion of processing of horticulture produce, value addition and less availability of processing industries in the sector.
- Lack of human resource development, professional capability of department staff.
- Lack of technical personnel at block / grass root level.

## **Opportunities**

- Scope in generation of quality planting material, improved / hybrid seeds etc.
- Increase in area, production & productivity of horticulture produce in the alluvial and lateritic tracts of the state and strengthen nutritional security.
- Increase in soil health and production of safe and organic produce.
- Availability of raw material for processing industries and reduction in post harvest losses.
- Motivation or providing opportunity to the farmers, SHGs etc. in the farming sector for self employment.

## **Challenges**

- Most of the farmers in the state are small and medium scale category.
- Large number of production constraints and lack of infrastructure.
- Inadequate manpower,
- Lack of reliable statistical information in area and production of horticulture crops on scientific basis.

## **Focus Areas**

- Improve productivity by way of quality germ plasm, planting material and water use efficiency.
- Enhance horticulture production, augment farmers' income and strengthen nutritional security.
- Encourage aggregation of farmers into farmer groups like FIG/FPOs to bring economy of scale and scope.
- Support skill development and create employment generation opportunities for rural youth in horticulture and post harvest management, specially in the cold chain sector.

## **Status of Horticulture in West Bengal**

### **Main highlights of Horticulture in the State**

- West Bengal is the leader in production of pineapple, brinjal, cabbage and cauliflowers and second largest producer of litchi in the country.

With a production of 26.68 m. MT of horticulture produce from an area of 1.78 m. ha., West Bengal is the largest producer of horticultural crops accounting for 9.6% of total horticultural production in the country.

The major horticulture produce comprises vegetables (86.4%). The State produces 23.04 m. MT of vegetables from an area of 1.38 m. ha. with the productivity of 16.7 t/ha. Production of fruits comprises 10.9 % of total production of horticultural crops in the State.

- During 2013-14, 1.82 lakh MT of fruits have been traded in organized markets with average price of Rs. 37.86/ Kg.
- Similarly, 8.70 lakh MT of vegetable have been traded in organized markets with average price of Rs. 17.29/ Kg.

## **FRUITS**

### **Banana**

- West Bengal accounts for 3.7% of total banana production in the country. The State produces 1.10 m. MT of banana from an area of 0.05 m. ha. with the productivity of 24 t/ha.



- The production of banana is concentrated in the regions of Murshidabad, Burdwan, Hoogly, North and South 24 Paraganas, Nadiya, Bankura, North and South Dinajpur, Birbhum, Cooch Behar, Midnapore, Jalpaiguri and Malda.
- Banana cultivars grown in the state are Dwarf Cavendish, Grand Naine, Rasthali and Monthan.
- During 2013-14, 1.41 lakh MT of banana have been traded in organized markets with average price of Rs. 11.63/ Kg.

## **Guava**

- West Bengal is the fifth largest producer of guava and accounts for 5.1% of total production of guava in the country.
- State produces about 0.19 m Mt of guava from an area of 0.014 m ha. with the productivity of 13.0 MT/ha.
- Main cultivars of guava recommended for the state are sardar (1-49), Allahabad Safeda, Lalit and Shweta.
- Production of guava is concentrated in the belts of Nadia, 24 Parganas Birbhum, Midnapore, Purlia, Bankura and Bardhamam.
- During 2013-14, 673 MT of guava have been traded in organized markets with average price of Rs. 22.00/ Kg.

## **Litchi**

- West Bengal is the second largest producer of litchi after Bihar and contributes about 16.0% of litchi to the total litchi production in the country.
- State produces about 0.09 m MT of litchi from an area of 0.009 m ha with productivity of 10.1 MT/ha.
- Production of litchi is concentrated in the belts of Malda, Murshidabad, 24 Parganas, Uttar Dinajpore and Cooch Behar.
- Major cultivars of litchi in the state are china, Elaichi, Bedana, Bombal, Late Large Red, Purbi and Calcutta.

## **Mango**

- West Bengal accounts for 2.3% of total production of mango in the country. The State produces 0.43 m. MT of mango from an area of 0.09 m. ha. with the productivity of 4.6 t/ha.
- The major mango producing belts in the State are Malda, Murshidabad, 24 Parganas, Midnapore, Purlia, Bankura, Birbhum, Hoogly, Hawara, Nadia and North & South Dinajpore
- Commercial mango varieties grown in the State Fazli, Gulabkhas, Himsagar, Kishenbhog, Langra and Bombay Green, Zardalu, Amarpali, Pusa Arunima, Surya..
- During 2013-14, 2258 MT of mango have been traded in organized markets with average price of Rs. 25.32/ Kg.

## **Papaya**

- West Bengal is the sixth largest producer of papaya and accounts for 5.9% of the total production of papaya in the country.
- The State produces 0.34 m. MT of papaya from an area of 0.01 m. ha. with the productivity of 29.4 t/ha.
- The major papaya producing belts in the State are North 24-Paraganas, Hoogly, Jalpaiguri, Bardhwan, Murshidabad, Nadia, Bankura, Purlia and Midnapore.
- Varieties of papaya viz. Coorg Honey Dew, Pink Flesh Sweet, Sunrise Solo and Taiwan have been recommended for the state.

## **Pineapple**

- West Bengal is the leader in production of pineapple and accounts for 18.2% of total production of pineapple in the country.
- The State produces 0.31 m. MT of pineapple from an area of about 0.01 m. ha. with the productivity of 29.5 t/ha.
- The major pineapple producing belts in the State are North Dinajpur, Darzeeling and Jalpaiguri, Cooch Behar, 24 Parganas and Midnapore.
- Recommended varieties of pineapple in the state are Giant Kew and Mauritius.
- During 2013-14, 144 MT of pineapple have been traded in organized markets with average price of Rs. 13.00/ Kg.

## **Sapota**

- West Bengal accounts for 2.6% of total production of sapota in the country.
- State produces 0.05 m MT of sapota from an area of 0.004 m ha with productivity of 10.8 MT/ha.
- The production of sapota is concentrated in South 24 Parganas and Midnapore East..
- Recommended varieties of sapota in the State are Cricket Ball, Calcutta Round, Kalipati and Baramasi.

## **VEGETABLES**

### **Brinjal**

- West Bengal is the leader in production of brinjal and accounts for 23.0% of total production of brinjal in the country.
- The State produces about 2.98 m. MT of brinjal from an area of 0.16 m. ha. with the productivity of 18.4 t/ha.
- The major brinjal producing belts in the State are 24-Paraganas Cooch Behar, Jalpaiguri, Nadia Murshidabad and Malda.
- Varieties of brinjal recommended for the state are Pusa Purple Cluster, Pusa Hybrid 5 and 6, 11HR, Bengaluru, Arka Navneeth, Varanasi Kashi Sandesh, Kashi Komal, Hissar PH-4, BR-112, Hissar Shymal and Pant Samrat.
- During 2012-13, 0.39 lakh MT of brinjal have been traded in organized markets with average price of Rs. 17.66/ Kg.

## **Cabbage**

- West Bengal is the leader in production of cabbage and accounts for 24.0% of total production of cabbage in the country.
- The State produces about 2.20 m. MT of cabbage from an area of 0.08 m. ha. with productivity of 28 t/ha. which is at par with Odisha.
- Production of cabbage is concentrated in the belts of West Medinipur, South 24 Parganas, North 24 Parganas, Nadia and Murshidabad.
- Varieties of cabbage recommended in the state are Pusa Ageti, Pusa Drum Head, Golden Acre and Pusa Mukta.
- During 2013-14, 0.16 lakh MT of cabbage have been traded in organized markets with average price of Rs. 9.44/ Kg.

## **Cauliflower**

- West Bengal is the leader in production of cauliflower and accounts for 22.0% of total production of cauliflower in the country.
- The State produces about 1.88 m. MT of cauliflower with an area of 0.07 m. ha. with the productivity of 25.5 t/ha. which is the second highest after Madhya Pradesh.
- Production of cauliflower is concentrated in the belts of West Medinipur, Bankura, Nadia, Murshidabad, North & South 24 Parganas.
- Recommended varieties of cauliflower in the state are Improved Japanese, Pusa Snowball-1, KT-25, Pusa Himjyoti, Pusa Hybrid-2, Hisar – 1, Pusa Kartik Sankar and Pant Gobhi-2,3.
- During 2013-14, 0.12 lakh MT of cauliflower have been traded in organized markets with average price of Rs. 13.30/ Kg.

## **Okra**

- West Bengal is the largest okra producing State and accounts for 14.0% of total production of okra in the country.
- The State produces about 0.88 m. MT of okra from an area of 0.08 m. ha. with the productivity of 11.7 t/ha.
- The Major okra growing belts in the state are Nadia, Murshidabad, North & South 24 Parganas and Bardhaman.
- Varieties of okra recommended in the state are Pusa Sawami, Pusa A-4, Perkins Long Green, Arka Abhay, Arka Anamika, Varsha Uphar, Hissar Unnat, Hissar Naveen and HBH-142.
- During 2013-14, 4292 MT of okra have been traded in organized markets with average price of Rs. 20.99/ Kg.

## **Peas**

- West Bengal is the sixth largest peas producing state and accounts for 3.5% of the total production of peas in the country.

- State is producing about 0.13 m MT of peas from an area of 0.02 m ha. with the productivity of 6 MT/ha.
- Major peas producing belts in the state are Nadia, Hoogly, and South 24 Paraganas.
- Recommended varieties of peas in the state are Bonneville, Arkel, and Pusa Pragati.

## **Potato**

- West Bengal is the second largest producer of potato after Uttar Pradesh and accounts for 22.0% of the total production of potato in the country.
- The State produces about 9.03 m. MT of potato from an area of 0.41 m. ha. with the productivity of 21.9 t/ha.
- Production of potato is concentrated in the belts of Hoogly, Bardhamam, Khabra, Bankura and West Medinapore.
- Recommended varieties of potato in the state are Kufri-Sinduri, Chandramukhi, Jyoti, Badshah, Bahar, Ashoka, Pukhraj, Chipsona-1, Kanchan, Arun, Pushkar, Shailja, Himsona, Chipsona-3,4, Surya, Girdhari, Khyati and Frysona.
- The availability of cold storage is inadequate in the State when compared to its production.
- During 2013-14, 8.91 lakh MT of potato have been traded in organized markets with average price of Rs. 7.91/ Kg.

## **Sweet Potato**

- West Bengal is the Second largest sweet potato producing state and accounts for 22.0% of the total production of sweet potato in the country.
- The State produces about 0.24 m. MT of sweet potato from an area of 0.02 m. ha. with the productivity of 10.4 t/ha.

## **Tomato**

- West Bengal is the eighth largest tomato producing State and accounts for 6.1% of total production of tomato in the country.
- The State produces about 1.14 m. MT of tomatoes from an area of 0.06 m. ha. with the productivity of 20.2 t/ha.
- The production of tomato is concentrated in the regions of Murshidabad, Nadia, North & South 24 Parganas, Jalpaiguri and Cooch Behar.
- Varieties of tomato viz. Pusa-120, Ruby, Sheetal, Arka Abha, Hissar-101, 102, Arun and Lalit have been recommended for the state.
- During 2013-14, 0.47 lakh MT of tomato have been traded in organized markets with average price of Rs. 20.03/ Kg.

## **Spices**

- West Bengal is the Tenth largest spice producing state accounting for 3.5% of total production of spices in the country.

- State is producing about 0.21 m MT of spices from an area of 1.0 m ha. with productivity of 2.1 MT/ha
- During 2013-14, 1.37 lakh MT of spices have been traded in organized markets with average price of Rs. 144.49/Kg

## **Plantation Crops**

### **Cashew nut**

- State produces about 1.7% of total production of cashewnut in the country. The main variety is Jhargram 1 and Vengurla-4.
- Production of cashewnut is concentrated in the belts of Midnapore (Eas & West) and Purlia.
- During 2013-14, 231 MT of cashewnut have been traded in organized markets with average price of Rs. 415.35/ Kg

### **Arecanut**

- West Bengal contributes about 3.4% in the total production of arecanut in the country and is ranked fifth most Arecanut producing State. Major Arecanut growing belts in the state are Jalpaiguri, Cooch Behar, 24 Parganas, Howrah, Nadia and Darjeeling.
- Recommended varieties of arecanut in the State are Mangala, Sumangla, Sreemangla, Mohitnagar, Sawarnmangla and VTLAH-1,2.

### **Coconut**

- West Bengal is ranked fifth in production of coconut in the country with 1.0% of total production of coconut.
- Released coconut varieties in the State are East Coast Tall, Malayan Orange Dwarf, Chowghat Green Dwarf, Kalpa Mitra, Kera Chandra, Chowghat Orange Dwarf, Kera Keralam and Kalyani Coconut-1.
- Major coconut growing belts in the state are Bankura, Birbhum, Burdwan, Cooch Behar, North and South Dinajpore, Darjeeling, Hooghly, Howrah, Jalpaiguri, Malda, Midnapore, Murshidabad, 24 Parganas, Nadia and Purlia.
- During 2013-14, 0.16 lakh MT of coconut have been traded in organized markets with average price of Rs. 12.57/ Kg

## **FLOWERS**

- West Bengal is the main cut flower producing state and accounts for 26.7% of the total production of cut flowers in the country.
- State also contributes about 3.80% to the total production of loose flowers in the country.

## **Mission for Integrated Development of Horticulture (MIDH) intervention in West Bengal**

The Centrally Sponsored Scheme of National Horticulture Mission (NHM) is being implemented in West Bengal since 2005-06. From April, 2014 onwards, NHM has been subsumed under Mission for Integrated Development of Horticulture (MIDH) for holistic growth of the horticulture sector covering fruits, vegetables, root and tuber crops, mushrooms, spices, flowers, aromatic plants and plantation crops.

### **Implementation of National Horticulture Mission (NHM) in West Bengal**

The Centrally Sponsored Scheme of National Horticulture Mission (NHM) is being implemented in 14 districts viz. Malda, Murshidabad, Nadia, Hooghly, Purulia, Bankura, North 24-Parganas, Darjeeling, Jalpaiguri, West Midnapore, Birbhum, Coochbehar, East Midnapore and South 24-Parganas.

Major activities being undertaken in the Mission are production and distribution of planting material ( model and small nurseries, tissue culture units), area expansion (through establishment of new gardens), rejuvenation of existing old and senile gardens, production of vegetable seed, seed infrastructure, protected cultivation, IPM/INM, organic farming, pollination support through bee keeping, integrated development of Mushroom, development of marketing infrastructure (whole sale markets, rural markets and functional infrastructure), Post Harvest Management ( pack houses, cold storages, refrigerated vans, mobile/ primary processing units and Human Resource Development.

### **Progress till 2014-15**

Salient physical progress till 2014-15 is as follows:-

- Additional area of 0.66 lakh ha. of identified horticulture crops.
- Setting up of 147 nurseries for production of quality planting material.
- Rejuvenation of 7198 ha. of old and senile orchards.
- Coverage of 11041 ha under organic farming of horticultural crops.
- Setting up of 10 IPM/INM infrastructure facilities such as Leaf tissue analysis labs, disease forecasting units.
- Coverage of 1320 ha under Protected cultivation.
- Setting up of 173 units of Post Harvest Management infrastructure such as pack houses, cold storage units, refrigerated vans, primary/ mobile processing units, ripening chambers, pre cooling units attach to cold storages and mobile pre cooling units.
- Setting up of 19 market infrastructure units for facilitating marketing of horticulture produce.
- Under HRD component, 642 farmers have been trained various horticulture activities.

An amount of Rs. 200.32 crore was released to the State till 2014-15 against which an expenditure of Rs. 199.74 crore has been reported.

### **Progress during 2014-15**

- NHM activities have been subsumed under Mission for Integrated Development of Horticulture (MIDH) during XII Plan (w.e.f. 2014-15).
- An outlay of Rs. 50.00 crore including GOI share of Rs. 42.50 crore has been approved for the State to implement activities of NHM during 2014-15. Funds to the tune of Rs. 18.74 crore have been released. Out of which, an expenditure of Rs. 30.87 crore including state share has been reported.
- Out of Rs. 5.03 crore earmarked for PHM and Market during 2014-15, state has not reported expenditure so far.

### **Programme during 2015-16**

- An outlay of Rs. 57.00 crore including GOI share of Rs. 28.50 crore (50% of total outlay) has been earmarked for West Bengal during 2015-16.

### **Special Intervention in Onion Production**

- A total target of 800 ha was fixed for 8 districts for kharif onion, 2013
- An amount of 7200 kg seeds of “ADR” distributed to the farmers.
- A total yield of 8165 MT was obtained.
- 500 ha area expansion of new improved onion variety like ‘ALR’ has been undertaken in Rabi 2013.
- In current kharif season, 5000 kg seed of ‘ADR’ has been distributed at subsidized rate of Rs. 500/- per kg.
- Production of onion has increased from 3.09 lakh MT during 2012-13 to 3.42 lakh MT during 2013-14; thereby registering an annual growth of 10.67%.

### **Promotion of Farmer’ Producer Organization (FPO)**

- Seven Farmer Producer Organization (FPOs) have been registered as private limited companies in Murshidabad, Nadia, North 24 Parganas, South 24 Parganas, Howrah, Hooghly and East Medinipur districts involving 8500 farmers as members. Promotion of another 11 (nos) of FPOs going on during 2014-15.

- FPOs are setting vegetables at fair price in 12 markets under Kolkata Municipal Corporation area and through 18 Mother Dairy booths under Bidhannagar Municipality area.
- Three number of FPOs are produced with refrigerated trucks under cold chain market linkage at a cost of Rs. 0.75 crore.
- Fourteen number of motorized vending carts were distributed to the FPOs for vegetable marketing involving subsidy of Rs. 0.26 crore.

### **Human Resource Development**

- A centre of Excellence on vegetable to be set up at Adizaptagram, thoroughly for training on improved cultivation of vegetable grown under poly houses / shade net houses.
- Post harvest management has been constructed in the Navendrapur Ramkrishna Mission for training and capacity building for cold chain management involving amount of Rs. 1.00 crore.
- Establishment of Technology Dissemination centres are in progress in Mushidabd, North Sinajpur, Nadia, Hooghly, Malda Bankure and North 24 Parganas.

### **Multipurpose cold storage financed by National Horticulture Mission (NHM) in West Bengal**

#### **M/s**

- Krishina Agriculture Private Ltd., Burdwan
- Kedia MPC Pvt. Ltd., Jiagunj, Murshidabad
- Manbhum large-sized multipurpose coop. Society, Purulta.
- Himalaya Multipurpose cold storage, Birbhum
- Sahapur MPC, Jamalpur, Burdwan
- Chakraborty Estates Pvt. Ltd., Masunde, North 24 Parganas
- Sagarika MPC & Food Processing Pvt. Ltd., Nadia.
- Baba Biswakarma Multipurpose cold storage, Birbhum.
- BBS Multipurpose cold storage, North 24 parganas



- Agroshine Food Products (P) Ltd., , Hooghly
- Poddar Brothers Himghar (P) Ltd., West Midnapore
- Matri Mandir Himghar (P) Ltd., Hoogly
- Deluxe Ice & Cold Storage (P) Ltd., Hoogly
- Radha Govinda cold storage (P) Ltd., West Midnapore.
- Biswajanani cold storage (P) Ltd., West Midnapore.
- Narinderanath Cold Storage (P) Ltd., West Midnapore

### **Project undertaken in RKVY-2014-15**

1. Integrated Development of Fruits & Vegetable cultivation in West Bengal (Fruits) Rs. 174.03 lakh.
2. Integrated Development of Fruits & Vegetables cultivation in West Bengal (Vegetables)- Rs. 484.29 lakh.
3. Capacity Building & Human Resource Development in West Bengal- Rs. 96.71 lakh.
4. Beekeeping and Pollination support in West Bengal- Rs. 44.44 lakh
5. Total value of projects:- Rs. 799.75 lakh.

### **Achievement in NVIUC during 2011-12 to 2014-15**

<b>Component</b>	<b>Phy Unit</b>	<b>Phy Achm.</b>	<b>Fin. Achm.</b>
1. Farmer Producer Organization (FPO)	No.	7	170
2. Hybrid & Improved vegetable cultivation	Ha.	1844	506.96
3. Green House & Shade net house	Sq.m.	57700	102.42
4. Vermi compost unit	No.	400	95.00
5. Farmer's Training	No.	185	52.32
6. Low cost onion storage	No.	10	5.00
7. Multipurpose cold storage	No.	1	118.95
8. Mobile / Motorized vending cart	No.	14	26.00

## **Field Visits**

Joint Inspection Team visited South 24 Parganas districts of the State on 23<sup>rd</sup> July, 2015 and Hooghly and Burdwan districts on 24<sup>th</sup> July, 2015. Details of beneficiaries covered are annexed.

Beneficiaries are identified by three tier Panchayat System viz. Gram Panchayat (village level), Panchayat 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 application from farmers and to monitor those schemes at Panchayat Samity and Gram Panchayat level. The Executive Officer, Panchayat Samiti sends the list of beneficiaries to the convener after verifying all the related papers. The DMC sub-allot the funds to the Executive Officer, Panchayat Samity as per requirement of respective block.

Funds under the NHM programme are released by SHM to Deputy Director (Horticulture)/ District Horticulture Officer by ECS / cheques which are jointly district nominated by the District Magistrate. ADM approves programmes / projects of the district.

## **Visit to South 24 Parganas**

The JIT covered South 24 Parganas district on 23<sup>rd</sup> July, 2015. Shri Atanu K. Gupata, District Horticulture Officer coordinated the visit.

The district of South 24 Parganas has 29 agricultural blocks. Horticulture sector comprises large variety of fruits, vegetables, flowers, medicinal & aromatic plants etc. in the northern part of the district, the major fruit crops are coconut, sapota, jack- fruit, arecanut etc. The commercial plantation crop is betelvine. In the Southern parts, major fruit crops are mango, guava, litchi, banana, papaya, sapota etc. All most all major vegetables like chilli, brinjal, tomato, okra, peas, cabbage, cauliflower, cucumber, bitter gourd, water melon etc. are grown. Recently some high value vegetables like capsicum, red cabbage, broccoli, Gherkin, Chinese cabbage, lettuce are being popularized. Good Number of nurseries are producing quality planting material for fruits, ornamental & shade loving plants.

Horticultural corps of the District offer a lot of scope in the value addition, productivity enhancement, export promotion, employment generation & economic development in the District apart from efforts are being made to exploits the scope of organic farming and hybrid varieties of vegetables as well as fruits.

There is a huge scope to develop the horticulture sector in an organized way so that horticulture and food processing industries can be developed in the District. The main constraints are inadequate infrastructural facilities and lack of man power.

### **District Profile**

- Geographical area: 99600 ha
- Cultivable area: 406215 ha
- Area under forest: 170580 ha
- Area under Barren & uncultivable land 845 ha
- Cultivable waste land 2924 ha
- Net cropped area 555572 ha
- Area under more than one crop 160217 ha
- Gross irrigated area 45%
- Net Irrigated area 30%
- Land holding: Up to 1 ha-64%  
Up to 2 ha-20%  
Up to 2 ha and above -16%

### **Agriculture / Horticulture Units**

- Coconut Nursery- 1 (No.)
- Community Training Centre ( F & V)- 1 (No.)
- Central Soil Saline Search Institute Canning- 1 (No.)
- Krishi Vigyan Kendra, Nimpith- 1 (No.)

## Statistics on Horticultural Crops

Sl. No.	Crop	Area	Major Crops
1.	Fruits	11,347 ha	Guava, Banana, Mango, Litchi
2.	Vegetables	77,181 ha	Cabbage, cauliflower, Okra, cucurbits, Radost Beans
3.	Spices	9919 ha	Chilli, Turmeric, Ginger
4.	Flower	2250 ha	Marigold, Tuberose, ornamental plants
5.	Plantation crops	7849 ha	Coconut, Betelvine

## Scheme wise progress Report, 2014-15

Sl. No.	Name of Scheme	Penning Balance	Fund Received	Exp.	Balance	% of Exp.
1.	NHM	314.9	525.33	611.93	228.3	62.70
2.	RKVY	96.31	27.37	96.04	27.64	77.65
3.	NVIUC	36.56	212.41	1.89	247.08	0.76

## National Vegetable Initiative for Urban Clusters (NVIUC)

### Farmer Producer Organization (FPOs)

Bhangore Vegetable Producer Company Ltd. has been formed to collectivize farmers at various levels to foster technology penetration improve productivity, enable improved access to inputs and services and increase in income of farmers, strengthening their sustainable agriculture based livelihoods.

Work going on for formation of 3 (three) FPOs during 2014-15 at the following blocks:-

**1. Baruipur:** 1000 farmers (40 FIGs out of 50 FIGs formed)

**2. Bhangore I:** 1000 farmers (49 FIGs out of 50 FIGs formed)

**3. Joynagar II:** 1000 farmers (51 FIGs out of 50 FIGs formed)

### **Activities-at a glance**

1. No. of FIG formed:	117
2. No. of Members / Farmers:	1750
3. No. of Gram Panchayats covered:	6
4. Target Villagers covered:	48
5. No. of FIG Training Organized:	40
6. No. of Exposure visits organized:	4
7. Category of Farmers	
• Total:	1750
• General:	813
• SC	217
• Minority:	1450

### **SWOC Analysis**

#### **Strength**

- Favorable agro-climatic condition
- Fertilize soil
- Low cost of cultivation
- Large number of skilled farm labour at competitive rates
- Availability of power
- Affordable cost of real estate & other infrastructure
- Low cost of living index
- Strategic location-nearest to Kolkata
- Easy access to airport & report for exports
- Well connected with soil / road.

## **Weakness**

- Scarcity staff strength
- Lack of awareness / motivation of farmers
- Reluctance
- Lack of Technical know how
- Financial cross
- Salinity of irrigation water
- Lack of quality seed and planting material
- Lack of soil and water testing facilities

## **Opportunity**

- Setting of fresh fruits and vegetables
- Export of fresh vegetables
- Production of hybrid seeds
- Establishment of Tissue culture units
- Setting up of nurseries
- Export oriented horticulture estate-organic farming

## **Challenges**

- Alarmingly less manpower
- Absence of Technical personnel at sub-Division & Block level.
- Incidence of Flood & other natural calamities & insufficient contingent planning.
- Gradual depletion of ground water level.
- Problem of soil salinity
- Inadequate infrastructural facilities
- Very high dependency on chemical fertilizers
- Increased cost of inputs

## NHM Intervention in South 24 Parganas

Physical and Financial Targets and achievement under National Horticulture Mission (NHM) programme during 2014-15 is given below:-

S. No.	Components	Unit	Targets				Achievement	
			Targets Approve in AAP, 2014-15		Targets as per Funds Released			
			Physical	Financial	Physical	Financial	Physical	Financial
1.	Perennial Fruits		24.035	1442100	24.035	1442100	24.035	1442100
2.	Maintenance perennial fruits		36.65	1466000	36.65	1466000	36.65	1466000
3.	Non perennial Fruits		30.7386	1536930	30.7386	1536930	30.7386	1536930
4.	IPM		400	480000	400	480000	0	0
5.	Loose Flower		40	640000	40	640000	40	640000
6.	Spices		30	360000	30	360000	30	360000
7.	Shade Net (Tubular)		54898.6	19489000	54898.6	19489000	37673.86	13374222
8.	Shade Net (Bamboo)		10000	1800000	10000	1800000	10000	1800000
9.	Vermi compost (Permanent)		49.72	2486000	49.72	2486000	24.72	1236000
10.	HDPE Vermibed		108	864000	108	864000	46	368000
11.	Training of farmers		43.04	2152000	43.04	2152000	6	300000
12.	Exposure visit		6.875	55000	6.875	55000	6.875	55000
13.	Power Tiller		80	4800000	62	3720000	25	1500000

14.	Rejuvenation		35	700000	35	700000	15.1575	303150
15.	Seminar		21	643000	21	643000	6	177210
16.	Mission Management (Normal)					399500		335710
17.	Creation of water resource		2	400000	2	400000	0	0
18.	Poly House (Tubular)		6500	3445000	18005.1	9542722	15391.04	8157250
19.	Poly House (Bamboo)		4000	900000	1400	315000	0	0
20.	Pump set		32	560000	32	560000	16	281250
21.	Cost of planting materials etc. (vegetable)		10500	735000	98000	6860000	66500	4655000
22.	Cost of planting materials (rose)		19000	5795000	2500	532500	0	0
23.	AEP Papaya		30.8275	924825	30.8275	924825	30.8275	924825
24.	Banana sucker with drip		14.625	1170000	14.625	1170000	0	0
25.	Citrus without drip		8.247	329880	8.247	329880	0	0
	<b>Total</b>			<b>56773735</b>		<b>62468457</b>		<b>38912647</b>

### Strategy

- Vertical expansion by inter cropping in fruits orchards.
- Increase in area under hybrid seeds.



- Introduction of farmers land on cluster of high value vegetables viz. Brocoli, Capsicum, red cabbage etc.
- Proper management practices
- Integrated Pest / Nutrient Management practices.
- Soil & water conservation
- Increase use of organic manures
- Skill Development / Intensive Training
- Awareness campaign / publicity campaign
- Establishment of PHM infrastructure
- Application of IT in Horticulture
- Crop specific value addition
- Improvement in marketing infrastructures
- Convergence with MNREGA
- Proper Date berg

### **Meeting of JIT with Jaba flower growing farmers**

On its visit to Falta Block of South 24 Parganas Block district, JIT held a meeting with Jaba- flower growing farmers of the Block. Farmers felt that the subsidy given for floriculture under NHM was inadequate in comparison to cost of production. Hence, this needs to be enhanced. In the Block, there are 150 families with 30 ha of area are connected with Jaba flower cultivation. They mentioned about a need for market nearby sites to climate intermediaries who pocket huge some of profit. During rainy season, water losing problem was being faced because of over flowering of nearly canal. It was mentioned that during summer, a virus crupts in Jaba plants which needs to be analyzed & IPM measuring suggested. Additional Commissioner, MIDH pointed that this problem would be highlighted during meeting with Deputy Director (Horticulture) of District. It was suggested that Field consultants / Krishi Pragati Shayaks (KPS) may appraised the problems of Jaba fruiting farmers to authorities.

### **Success Story**

On its field visit to Falta Block of South 24 Paraganas, JIT visited a vermi compost unit situated at Moukhali village. Shri Sambhunathbanu, a beneficiary, was

assisted through NHM programme for setting up a vermi compost unit with subsidy of Rs. 20,000/- in 2008-09. In the initial stages, vermi compost unit was set up with four (pits).

From 2008-09 to 2014-15, the beneficiary extended 4 pits to 100 pits for production of vermi compost. He was procuring earth norms @ Rs. 2,000 per kg. At present, he is setting 10 ton of vermi compost @ Rs. 6/- kg with brand “ Progressive Enterprise” & realizing Rs. 60,000/- per month. It was heartening to learn that a self employed Youth has further deployed seven (7) workers in his business.

### **Wrap up meeting with Deputy Director (Horticulture), South 24 Parganas**

A wrap up meeting of JIT was held with Dr. S. N. Khara, Deputy Director (Horticulture) on 23<sup>rd</sup> July, 2015 in his chamber. District Horticulture Officer was present in the meeting. The observations made by JIT during its visit to Faltu Boock of South 24 Parganas District were apprised to him.

During the meeting, Deputy Director (Horticulture) mentioned that beneficiaries were not coming forward to claim maintenance subsidy on establishment of new gardens etc. for the second & third year respectively in spite of reminders. Under the component, installment subsidy is given in there installment of 60:20:20 subject to plantation survival rate of 75% in 2<sup>nd</sup> year and 90% in 3<sup>rd</sup> year. It was apprehended that required survival rate of plant may not exits for claiming subsidy of maintenance for 2<sup>nd</sup> & 3<sup>rd</sup> year. It was pointed out that honorarium paid to Foiled consultant needs revision. Regarding establishment of scientific, PHM and marketing infrastructure under NHM, there was lack of awareness due to low publicity of NHM programme. It was also felt that lack of entrepreneurship can also be the reason. Deputy Director mentioned that leaflets in local language containing cost norms under NHM programme were being circulated in rural areas. It was mentioned in the meeting regarding diagnosis of virus in Jaba flower in Falta Block of District. Deputy Director (Horticulture) assured that this would be got tested & recommended for IPM measures. Deputy Director (Horticulture) mentioned that the demand for low cost onion storage was increasing due to increase in area under onion production, in the District. It was also mentioned that FIGs were being formed for beetle wine (shadenet) growers.

It was pointed out that an export Committee of Bidhan Chandra Viswavidalaya had been formed to ritualize wilting of share. DHM was coordinating with KVK in the implementation of NHM programme in District. Deputy Director (Horticulture) mentioned that VIUCs in Bhangore Block of District are running successfully and effectively. JIT was assured that sincere efforts would be made for horticulture development in the District with NHM assistance.

### **Visit to Hooghly District**

Member of JIT, Sh. Swarnendu Singha, Section Officer (MIDH) visited Hooghly District in 24<sup>th</sup> July, 2015. Dr. Ranojoy Dutta, Agriculture Development Officer (Coconut), Directorate of Horticulture and Horticulturist, District Horticulture Officer, Hooghly coordinated the field visit.

### **SWOC Analysis**

#### **Strengthens**

- Favourable agroclimate for diversified agriculture production.
- Predominance of fertilize sandy loan soils suitable for cultivation of seasonal crops.
- Well developed irrigation infrastructure with 62% of the area under assured irrigation.
- Major potato growing belt with highest productivity level (27 MT/ha). Offering scope for value addition and exports.
- Existence of several water bodies including revering areas, bael, canal and tanks with a total water spread area of 25685 ha.

#### **Weakness**

- Same parts of Districts are flood prone. Drainage is also a problem in some areas.
- Imbalance in fertilizer application coupled with intensive agriculture is adversely affected the soil health. INM practices are not adopted. Application of organic fertilizers is very low.
- Low level of awareness among farmers on the significance of soil testing.

- Absence of exclusive cold storage facilities for seed potato affecting seed quality and viability.

## **Opportunities**

- Soil health management through comprehensive survey and introduction of soil health cards.
- Better organic input supply through development of “organic inputs Production Hubs”, promotion of FYM and vermi composting at farmer’s fields.
- Rational utilization of ground water resources through adoption of micro irrigation system. Promotion of rain water harvesting structures for ground water recharging.
- Good scope for crop diversification with emphasis on oil seeds, pulses, maize and vegetables.
- Developmental of ‘Seed villages’ exclusively for production of certified seeds.
- Establishment of exclusive cold storages facilities for potato seeds.
- Using informal channels for technology dissemination through Farmer’s Clubs’ farmers SHGs, productive NGOs.

## **Challenges**

- Occurrence of natural calamities like floods and consequent crop loss.
- Depletion of ground water.
- Lesser of ground water.
- Lesser share of certified seeds and use of poor quality seeds may affect crop production and productivity.
- Smaller based holdings limiting the scope for adoption of intensive crop production technologies, which are capital intensive.
- Increasing production cost affecting the profitability of agriculture.

## **The district plan**

During 2014-15, budget amounting to Rs. 389.35 lakh was year marked and for 2015-16 provision of Rs. 404.55 lakh has been kept.

## **The expected outcome**

- Fostering overall growth in agriculture and allied sector over the period of five years.
- Improving soil health and bringing more areas under major, minor & micro irrigation systems.
- Ensuring availability of quality seed and planting material.
- Increase in output per quanta of land and water resources.
- Holistic dissemination of improved technology.
- Augmenting centre premiership development through post harvest value addition of agriculture produce through group formation.
- Creation of storage space for vegetables, potato, flowers etc.
- Ensuring market for agriculture produce and products
- Ensuring value-chain for agricultural produce to augment farmer's income.
- Increasing income of the farm families & overall economy of the District.

## **Rastriya Krishi Vikas Yojana (RKVY)**

During 2014-15, provision of Rs. 9.91 crore for the cost of projects under RKVY was earmarked and out of which funds amounting to Rs. 7.2949 crore were released & utilized.

On its field visit, JIT visited the sites of beneficiaries covered under vermi compost unit and the low cost onion storage. The details are annexed.

JIT observed that vermi compost unit was operational. It was mentioned that bank loan of setting up of low cost onion was not easily available and need was felt for static mobile vending cart.

## **Visit to Burdwan District**

Member of JIT, Shri Swarnendu Singha, Section Officer (MIDH) visited Burdwan District on 24<sup>th</sup> July, 2015. Assistant Director of Horticulture & District Horticulture Officer coordinated the field visit.

## **SWOC Analysis**

### **Strength**

- Vast lateritic tracts suitable for orchards of perennial fruits.
- Immense scope for fruit production throughout the year.
- Rapid area expansion under mango, guava and citrus.
- Advantageous geographical location for promotion of inter-state fruit supply which will meet the production-supply gap.
- There are three (3) governmental nurseries at Kalka, Kalwa and Ausgram-1 and are District Seed Farm for fruit development.
- Increasing numbers of entrepreneurs

### **Weakness**

- Poor Post Harvest infrastructure
- Initial investment cost for horticultural crop production is relatively higher.
- Acute shortage of market linkage of producers
- Low availability of organic manures.
- Inadequate market facilities.
- Under developed micro-irrigation facilities.

### **Opportunities**

- The Western lateritic zone of the District suffers from poor agricultural productivity due to low irrigation is suitable for cultivation of different perennial fruits.
- Area expansion and establishment of orchard in Paschimanchal' Budwan integrated with drip & irrigation.
- Cultivation of vegetables as inter crop is between the orchards.
- Establishment Horticulture market complex which encourage the horticultural production system.
- Well connected to Kolkata through rail and road linkages.
- Implementation of National and State level schemes to promote horticultural production system.

## Challenges

- Irregular availability of quality seeds and planting material during sowing time.
- Out break of pest and diseases.
- Inadequate institutional support viz. bank credit towards horticultural crops production.
- Inadequate consultancy services.
- Absence of lower level extension machinery

On this field visit to Jamalpur Block of Burdwan District, JIT visited the Hi-tech green house financed through RKVY to 2014-15. The details are annexed.

It was observed that crop rotation and high value off-season crop plantation including Horticulture could pay more remuneration to farmer.

# **South 24 - Parganas District**



### Area Expansion / Rejuvenation

Sl. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Prasenjit Samanta, Vill. + PO Hashimnagar, G.P. – Banganagar- II, Falta block, South 24 Parganas.
2	Total land available with the beneficiary (ha).	1.2 ha
3	Crop Cluster under which covered.	Loose Flower
4	Name & variety of crop planted.	Hibiscus (Red)
5	Source of planting material.	Local Nursery
6	Number of planting material.	1500 Plants
7	Number of plants planted/ rejuvenated.	1500 Plants
8	Date of plants which survived also indicate percentage survival).	90%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.).	Rs. 28800/-
10	Amount paid and date of payment.	Rs. 14400/- in 2012-2013
11	Mode of payment.	RTGS
12	Source of Irrigation Water (Bore well/ Tube well/ Canal)	Cannel and Surrounding Pond
13.	Whether Drip/ Sprinkle System in use.	No
14.	Other inputs provided.	No
15.	Whether assistance available for Organic Farming	No
16	If so, area covered	No
17.	Assistance available	No
18.	Available marketing facility for the crop.	Howrah & Klighat Market
19.	Other infrastructure available in the vicinity.	No
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	Need proper maintenance, weeding and pruning required. NHM board not displayed.

### Area Expansion / Rejuvenation

S. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Ranjit Guchhait, Vill. + PO Hashimnagar, G.P. – Banganagar- II, Falta block, South 24 Parganas.
2	Total land available with the beneficiary (ha).	0.4 ha
3	Crop Cluster under which covered.	Loose Flower
4	Name & variety of crop planted.	Hibiscus (Red)
5	Source of planting material.	Local Nursery
6	Number of planting material.	200 Plants
7	Number of plants planted/ rejuvenated.	200 Plants
8	Date of plants which survived (also indicate percentage survival).	98%
9	Total amount of subsidy assistance due to the beneficiary as (Rs.)	Rs. 9600/-
10	Amount paid and date of payment.	Rs. 4800/- in 2012-2013
11	Mode of payment.	RTGS
12	Source of Irrigation Water (Bore well/ Tube well/ Canal)	Cannel and Surrounding Pond
13.	Whether Drip/ Sprinkle System in use.	No
14.	Other inputs provided.	No
15.	Whether assistance available for Organic Farming.	No
16	If so, area covered	No
17.	Assistance available	No
18.	Available marketing facility for the crop.	Howrah & Klighat Market
19.	Other infrastructure available in the vicinity.	No
20.	General upkeep of the plot; Very good/ Good / Average/ Poor.	Good
21.	Any other relevant observation by the JIT.	Need proper maintenance, weeding and pruning required. Earning Rs. 6000/- P.M. NHM board not displayed

### Protected Cultivation

Sr. No	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Monica Mondal, w/o. Sanjay Mondal, GP. Debipur, Block: Falta South 24 Parganas.
2	Total land available with the beneficiary (ha).	Approx above 2 ha
3	Type of Protected cultivation activity (Hi-tech / Normal GH, Shade net, Plastic tunnel .....)	Poly house (Bamboo)
4.	Year of establishment	2013 (2012-13 financial year)
5.	Size of Structure (Sq. m)	2500 sq. m
6.	Total cost	Rs. 2 lakh
7.	Agency involved in fabrication and installation	Farmer himself
8.	Total subsidy paid and date of payment.	Rs. 1 lakh in 2013-2014
9.	Crop being grown	Adenium, Ornamentals, Fruit plants
10.	Condition of Structure	Well
11.	Condition of Crop	Well
12.	Tie up with market	Well
13.	General upkeep (Very good/ Good/ Average/ Poor)	Good
14	Any other relevant observation by JIT.	<p>Having personal nursery.</p> <p>Marketing at Muchasa and other states of the country.</p> <p>Earning Rs. 30,000/ P.M.</p> <p>Self invest of Rs. 1 lakh recovered.</p> <p>Pack house and vermin compost unit recommended.</p> <p>NHM board not displayed.</p>

### Protected Cultivation

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	Barun Halder, GP. Debipur, Block: Falta, South 24 Parganas.
2	Total land available with the beneficiary (ha).	2 bigha (0.55 ha.)
3	Type of Protected cultivation activity (Hi-tech / Normal GH, Shade net, Plastic tunnel .....)	Polyhouse (Bamboo) with irrigation facilities
4.	Year of establishment	2012-13
5.	Size of Structure (Sq. m)	400 sq. m
6.	Total cost	Rs. 144000/-
7.	Agency involved in fabrication and installation	Aerotech
8.	Total subsidy paid and date of payment.	Rs. 72000/- in 2012- 2013
9.	Crop being grown	Ornamental Plants
10.	Condition of Structure	Medium
11.	Condition of Crop	Medium
12.	Tie up with market	Well
13.	General upkeep (Very good/ Good/ Average/ Poor)	Good
14	Any other relevant observation by JIT.	<p>Earning Rs. 10,000/ P.M.</p> <p>Self investment of Rs. 72,000/- recovered.</p> <p>Marketing at Muahase and Punjab, Haryana Delhi</p> <p>Water logging</p> <p>Mini sprinkler under NMMI.</p> <p>NHM board not displayed</p>

### Project Status of Organic Farming

Sr. No.	Details	Remarks
1	Name of the project	Vermi compost unit(Permanent) (4 pits)
2	Year of Implementation.	2007-2008
3	Project Period	2007-2008
4	Name of Implementing Agency	Shambhunath Banu
5	Location of Project	Moukhali GP, Bishnupur II Block, South 24 Parganas
6	Total Project Cost	Rs. 40,000/-
7	Amount Released by DAC	Rs. 20,000/- in 2007-2008
8	Expenditure incurred Status	
9	<b>Status</b>	
	<ul style="list-style-type: none"> <li>Crops covered</li> </ul>	
	<ul style="list-style-type: none"> <li>No of farmers involved</li> </ul>	one
	<ul style="list-style-type: none"> <li>Name &amp; address of certifying agency</li> </ul>	
	<ul style="list-style-type: none"> <li>Whether any certificate issued</li> </ul>	
	<ul style="list-style-type: none"> <li>Observation made by JIT</li> </ul>	NHM board displayed. Beneficiary developed 100 pits from 4 pits financed by NHM in 2007-08. Monthly sale of compost is 10 ton selling @ Rs6/- Kg. with brand 'Progressive Enterprise' and realizing Rs. 60,000/- P.M. Beneficiary has employed 7 workers in his business.

# **Burdwan District**

### Protected Cultivation (RKVY)

Sr. No.	Details	Remarks
1	Name & address of Beneficiary whose field visited.	ABDOS Agro Industries, Deshghara, Block Jamalpur, Distt. Burdwan
2	Total land available with the beneficiary (ha).	0.8 ha
3	Type of Protected cultivation activity (Hi-tech / Normal GH, Shade net, Plastic tunnel .....)	Hi-tech Green House
4.	Year of establishment	2015-16
5.	Size of Structure (Sq. m)	1008 sq. mtr.
6.	Total cost	Rs. 16,31,000/-
7.	Agency involved in fabrication and installation	Nature Fresh Agro Trade, Durgapur
8.	Total subsidy paid and date of payment.	Rs. 4,62,000/-
9.	Crop being grown	Capsicum
10.	Condition of Structure	Good
11.	Condition of Crop	Early Vegetative stage
12.	Tie up with market	
13.	General upkeep (Very good/ Good/ Average/ Poor)	Good
14	Any other relevant observation by JIT.	Scope for high cost flowers and off-season crop as the demand is high .  Employing 5-6 workers as per need.  RKVY board displayed

# **Hooghly District**



### Project Status of Organic Farming

Sr. No.	Details	Remarks
1	Name of the project	Vermi compost Unit
2	Year of Implementation	2014-15
3	Project Period	2014-15
4	Name of Implementing Agency	Pinto Ghose
5	Location of Project	Abdulpur, Balagarh, Hooghly
6	Total Project Cost	Rs. 1.00 lakh
7	Amount Released by DAC	Rs. 50,000/-
8	Expenditure incurred Status	Ra. 1.04 lakh
9	<b>Status</b>	
	<ul style="list-style-type: none"> <li>Crops covered</li> </ul>	Vegetables(onion, corrianders)
	<ul style="list-style-type: none"> <li>No of farmers involved</li> </ul>	Self
	<ul style="list-style-type: none"> <li>Name &amp; address of certifying agency</li> </ul>	
	<ul style="list-style-type: none"> <li>Whether any certificate issued</li> </ul>	
	<ul style="list-style-type: none"> <li>Observations made by JIT</li> </ul>	<p>Woman beneficiaries may be covered for task relating to Vermi compost unit.</p> <p>NHM board not displayed</p>

## Post Harvest Management

### Pack House/Cold Storage/Ref Van/ Primary processing Units/Onion storage

Sr. No.	Details	Remarks
1	Name of the project.	Low Cost Onion Storage
2	Year of Implementation	2014-15
3	Project Period	2014-15
4	Name of Beneficiary	Sh. Dinabandhu Sanpui
5	Location of Project	Inchura, Balagarh, Hooghly
6	Total Project Cost	Rs. 1.75 lakh
7	Amount Released & date	Rs. 87500/-
8	Expenditure incurred	Rs. 2.32 lakh
9	<b>Status</b>	
	Capacity of unit	25 MT
	Commodity	Onion
	Equipments purchased	Local bamboos etc.
	Condition of infrastructure	Good
	Whether NHM logo displayed	Yes
	Whether funds disbursed to	Yes through RTGS
	Observations made by JIT	<ul style="list-style-type: none"> <li>• NHM logo displayed.</li> <li>• Catering to neighbouring farmers on rent.</li> <li>• Bank loan not easily available.</li> <li>• Non availability of mobile vending cart.</li> <li>• Need- based employment to 2-3 persons.</li> </ul>







