



Annual Report 2011-12



ODISHA HORTICULTURE DEVELOPMENT SOCIETY (OHDS)

Directorate of Horticulture, Department of Agriculture

Govt. of Odisha

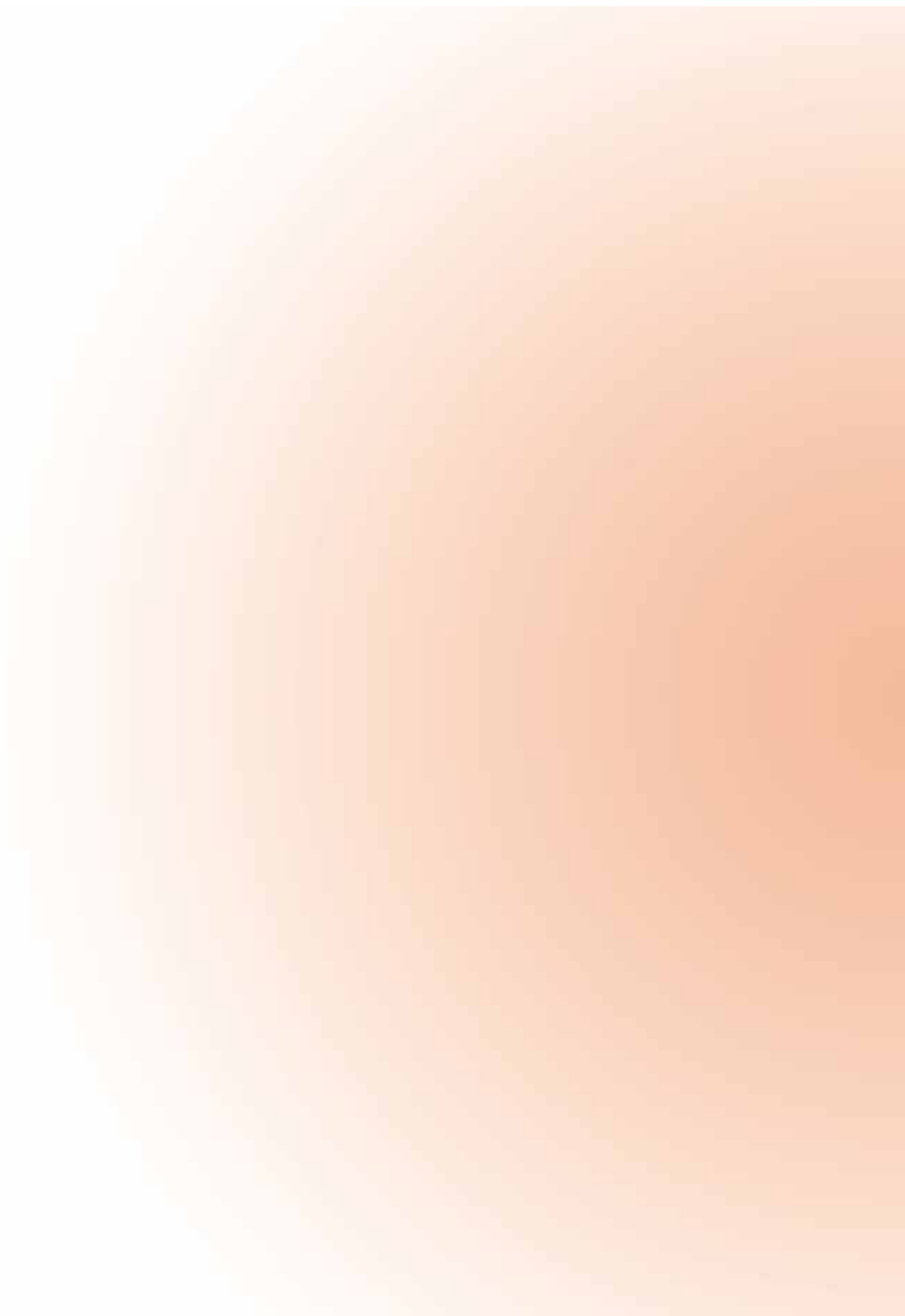


Annual Report

2011 - 12

ODISHA HORTICULTURE DEVELOPMENT SOCIETY (OHDS)

Director of Horticulture
Department of Agriculture
Govt. of Odisha





B.K. Patnaik
Chief Secretary, Odisha



Ph. : (+91 - 674) 2536700/4300
Fax: (+91 674) 2536660
e-mail: csori@nic.in
Bhubaneswar,

Message

I am extremely happy to know that Directorate of Horticulture and Odisha Horticulture Development Society is bringing out the Annual Report, 2011-12. The Horticultural activities of the state have come to the lime light with the implementation of National Horticulture Mission, Rastriya Krishi Vikas Yojna, National Mission on Medicinal Plants, National Mission on Micro-Irrigation and other programmes. I appreciate the activities taken by the Directorate especially in post harvest management and marketing of horticultural produce.

Agriculture is the main stay of the State of Odisha and Government continues to accord top priority to this sector. The Annual Report 2011-2012 highlights the recent work done in Horticultural sector in the state under National Horticulture Mission. I hope the Society will continue to bring out such issues on regular basis and benefit various stake holders across the state.


(B.K.Patnaik)

Dr. Rabinarayana Senapati, IAS
Development Commissioner-cum-Addl.
Chief Secretary and
Agriculture Productions Commissioner,
Odisha




Ph. : 0674 - 2394935 (O)
2397530 (R)
e-mail: rnsenapati52@gmail.com
Bhubaneswar - 751 001

Message

I am delighted to know that Odisha Horticulture Development Society is bringing out its annual report for the year 2011-12. The achievement of the Directorate as well as the Society are laudable in area expansion and convergence of NHM activities with other Departments for which the state of Odisha has been adjudged as the best Performing State by Ministry of Agriculture and Co-operation, Govt. of India in 2011-12. I am happy to know that the focus is shifting from Area expansion to Post harvest Management, Protected Cultivation, Spices, Floriculture and mechanization.

I am hopeful that more efforts will be made to promote commercial horticulture in a big way especially in suitable highlands with micro irrigation facility.

I send my best wishes to the Directorate of Horticulture and wish all success in their endeavours.


(R.N. Senapati)



R.L. Jamuda, IAS
Principal Secretary to Government
Agriculture Department
1st Floor Rajiv Bhawan
Odisha Secretariat
Bhubaneswar - 751 001

Tel. No.: 0674 - 2391235 (O)
2547140 (R)
Fax No. : 0674 - 2393948
e-mail : agrsec@ori.nic.in




Message

National Horticulture Mission programme launched by Govt. of India has triggered each and every State across the country to undertake massive plantation programme including post harvest management and marketing of horticultural crops. Fortunately for Odisha Horticulture contributes immensely in all possible dimensions with emphasis on promotion of large number of committed, self reliant entrepreneurs to offer a sustainable livelihood and household food security at the grass root level.

The Annual report of Horticulture Directorate for the year 2011-12 highlights the implementation of the Annual Plan and areas where significant achievements have been made. I would like to place on record my sincere thanks to employees of the Directorate of Horticulture in positioning Odisha conspicuously as one of the best performing state under NHM in the country. I hope, the very nuance of Annual report will give more inputs to the administrators, planners, policy makers and the farming community of the state.

With best wishes,



(R.L. Jamuda)

Dr. Sanjeev Kumar Chadha

Director, Horticulture
&
Secretary, OHDS



Message

The growth of Horticulture in this decade is remarkable in our state. With huge areas already under fruit plantations there is potential of becoming one of the major fruit exporting states in the country. There needs to be a paradigm shift in strategy to catapult Odisha to national and international scenario in export of fruits, vegetables and floriculture.

Marginal & small farmers, especially in Scheduled Areas are at the focus of our programmes. It is by convergence of programmes like OTELP, ITDA, MGNREGS, Irrigation schemes etc. returns from a small holding of one acre shall cross rupees at least fifty thousand per annum and farmers move up from the poverty line.

I am sure we in the Horticulture family, would rededicate ourselves and channelize our energy towards reaching small farmers, setting up market linkages and putting Post Harvest Infrastructure in place and come up to the expectations of the farming community. This shall transform the State into a power centre in the field of Horticulture in coming years.

(Sanjeev Kumar Chadha)

CONTENTS

Chapter	Subject	Page
1.	NHM districts of Odisha	1
2.	Mission objectives	2
3.	Odisha Horticulture Development Society	3
4.	Scenario of HNM in Odisha	15
5.	Achievements during 2011-12	18
6.	Major activities under NHM	32
7.	Market intervention	34
8.	Convergence with other programmes	36
9.	Awards	37
10.	Publications	38
11.	Show & seminars	39
12.	Trainings attended outside the state	40
13	Audit report	41

Mission Objectives

Provide holistic growth of horticulture sector through area based regionally differentiated strategies, which include research, technology promotion, extension, post harvest management, processing and marketing, in consonance with comparative advantage of each State / region and its diverse agro-climatic features;

Enhance horticulture production, improve nutritional security and income support to farm households;

Establish convergence and synergy among on-going and plan programmes for horticulture development;

Promote, develop and disseminate technologies for horticulture development through seamless blending of traditional wisdom and modern scientific knowledge;

Create employment generation opportunities for skilled and unskilled persons, especially unemployed youth.



EXECUTIVE SUMMARY

The Odisha Horticulture Development Society (OHDS) has been a vehicle for driving growth in horticulture sector since its inception in 2005-06. It has been engaged in the task of planning, co-ordinating, supervising and monitoring of horticulture development activities. The district branches of the Society have been functioning under the active supervision of respective District Collectors.

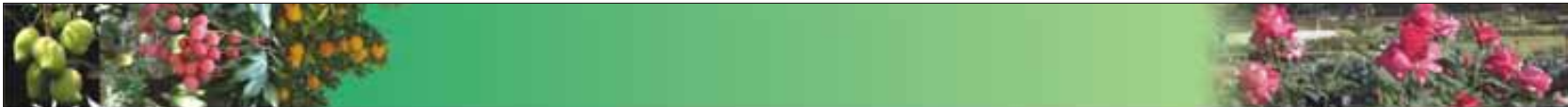
The OHDS has acted as a window for receiving grants and funds from the State and Central Government Agencies. This has hastened the release and utilization of funds. But continued general superintendence and guidance by the Executive Committee and the Project Management Committee has given a direction to the Society from time to time. The Chief Secretary and the Agriculture Production Commissioner have been chairing the respective committees and the Society has achieved significant milestones in the areas of fruit plantation in last seven years.

Quality Planting Material (QPM) is a significant input as it determines the production of inputs. After the Society started implementing the NHM, the State moved from dependence on other states for QPM to a phase of self-sufficiency. 54 Public nurseries and 85 private nurseries have been set up besides 163 nurseries coming up in the private sector enhancing the capacity to produce QPM from 37.22 lakhs in 2005-06 to over 88 lakhs per annum in 2011-12. The State has become a net exporter of QPM.

The State has made significant strides in establishment of new orchards. With the introduction of NHM, systematic plantations with commercial and hybrid varieties have been taken up in a big way. More than one lakh hectare mango orchards have been set up and the productivity has increased from 3.44 MT to 4.55 MT/Ha and is likely to go up in coming years. Litchi orchards have been set up over an area of about 1000 ha and the productivity has gone up from 2.92 MT/ha to 4.56 MT/ha after the introduction of NHM. Citrus plantations have been done over an area of 2007 ha in some potential districts and the productivity has gone up from 7.79 MT/ha to 10.20 MT/ha. In 2011-12 emphasis was laid on constitution of Fruit Growers Associations in different districts so that organized marketing access can be provided to the farmers and better returns can be ensured.

Introduction of Tissue Culture Banana plantations over an area of 500 ha in farmer's clusters were carried out during 2011-12. Though banana plantation has been done over 8000 ha earlier, this has been through suckers and mostly traditional varieties were focused. But G-9 variety has a huge potential for export to other States because of assured buy back arranged by the Society for the farmers. In coming years scientific banana cultivation would benefit the farmers in a big way as the State has a distinct edge in agro-climate and the distance compared to the Southern States.

The Society has contributed in reducing dependence on neighbouring States on flowers as floriculture is being seen as a profitable crop by the farmers. More than 40,000 ha area has been covered since 2005-06. Floriculture under green houses is catching up fast and crops like Gerbera,



Rose, Liliium, Carnation etc, are being grown. In coming years the State would be able to export flowers to Middle East and South Eastern countries. Similarly, the area under spices has grown substantially and high-yielding varieties of turmeric and ginger have been introduced. The productivity has increased from 1.93 MT/ ha to 7.39 MT/ ha in case of ginger and 2.37 MT / ha to 7.56 MT / ha in case of turmeric. There is huge scope for enhancing production but market tie-up would need to be provided so as to benefit the farmers.

The State has a huge potential for growing cashew. An area of 32500 ha has been covered under cashew plantation using quality planting materials since 2005-06. This has enhanced the productivity from 1.0 MT/ha to 2.20 MT/ ha. Processing facilities in the State need to be improved so that farmers can get better returns. At the same time old and senile orchards need to be treated scientifically.

In 2011-12, the Society focused on providing marketing linkages to farmers and setting up infrastructure for Post Harvest Management. Whereas much needs to be done in the area of marketing, the achievements in the area of PHM are encouraging. Setting up of Pack houses, Pre-cool facilities, refrigerated vans, cold storages, onion storage structures in 2011-12 is a good beginning and there is a long way to go. In order to reduce post harvest losses, it would be the endeavor of OHDS to set up more such infrastructure in coming years besides providing market linkages so that farmers can get better returns.

OHDS has been implementing the National Mission on Micro Irrigation for last six years. The achievements have been unimpressive compared to other States. There is a huge potential to enhance the coverage under micro-irrigation and this would enhance the productivity of crops also. 8187 ha under drip and 32690 ha under sprinklers have been covered and in coming years crops like Banana, Oil Palm, Mangoes, Citrus etc would be covered under micro-irrigation. Exposure visits to nearby States and training programmes for farmers and field officials are planned to popularize micro-irrigation in the State.

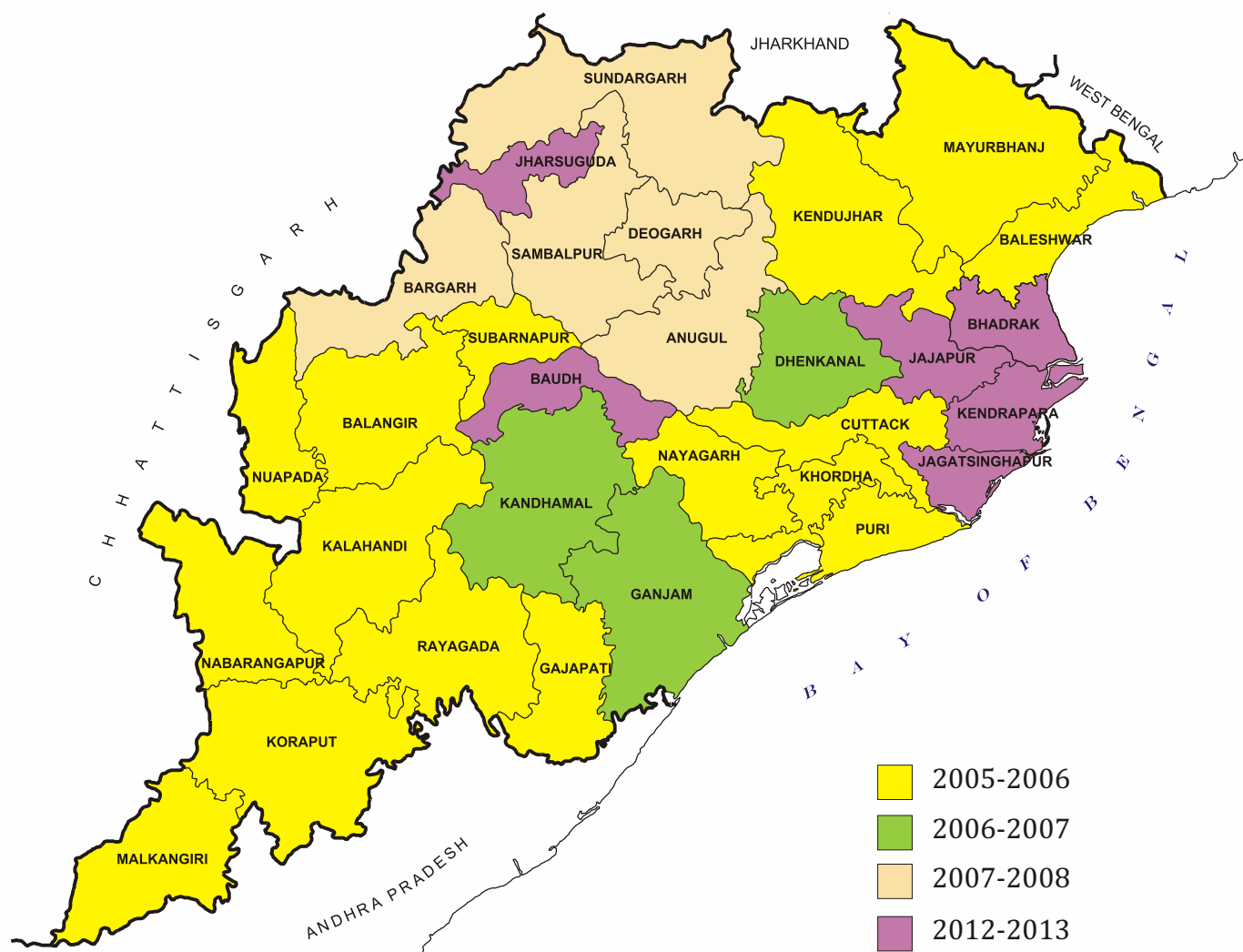
The Society made significant strides in convergence of NHM and NMMI with other on-going schemes of other departments. Convergence with Odisha Tribal Empowerment and Livelihood Project in tribal areas has brought rich dividends to poor farmers. It is aimed to cover all the beneficiaries of the Forest Rights Act under NHM. Besides this setting up of decentralized cool chain infra-structure in tribal pockets of Baliguda, Panposh, Koraput, Banspal, Jashipur and Komna in 2011-12 would go a long way in empowering the tribal farmers and they would have an access to the nearby markets through refrigerated vans. MGNREGS is another flagship scheme where convergence has been done in a big way with Horticulture Sector. More coverage is aimed under this scheme so that focus under NHM can be shifted to PHM, Protected cultivation and mechanization.

Process for preparing a perspective plan for coming ten years for Horticulture Sector has been set in motion so as to identify the priority areas and prepare annual plans with identified deliverables. The learning from 2011-12 have been incorporated in the plan for 2012-13. The impetus on protected



NHM Districts of Odisha

Nature has placed the state of Odisha in a position of advantage with respect to cultivation of different horticultural crops offering a wide range of choices to the farmers for crop diversification with the focused attention of the Govt. The horticulture sector is receiving favourable policy environment and increased investment support in recent years. NHM launched since 2005 by Govt. of India is now under implementation in all the 30 districts of the State for holistic development of horticulture sector starting from planting to post harvest management and marketing.





CHAPTER 1

Odisha Horticulture Development Society - in brief

1.1 Creation of Directorate of Horticulture

In Orissa, prior to 1977, Horticulture interventions were under taken simultaneously, along with normal agriculture programme as a part of Directorate of Agriculture and Food Production. Thus before creation of separate Directorate of Horticulture, promotion and development of Horticulture crops was taken as second priority, next to rice, pulses etc. After separation of Horticulture Directorate from Directorate of Agriculture and Food production in 1977, systematic and structured approach for Horticulture development came into being. A designated cadre of extension personnel, though inadequate, was put in place in 1989. Since then the Directorate of Horticulture is engaged in promotion of fruits, vegetables, flowers, mushrooms, medicinal and aromatic plants etc. It is now gaining momentum due to implementation of various schemes like National Horticulture Mission, Rastriya Krishi Vikash Yojana, National Mission on Medicinal Plants, National Mission on Micro Irrigation, State Plan scheme, CDB, ISOPOM for Oil palm etc.

1.2 Establishment of Orissa Horticulture Development society

- i) Government of India launched National Horticulture Mission for promoting, on a mission mode , the all round development of horticulture in the country encompassing all aspects such as increase in production and productivity, post harvest management, processing, marketing and export. They requested all states to form and register state level horticulture development societies for planning, coordinating, supervising and monitoring the activities of different organizations and agencies concerned with the development of horticulture and implementation of the National Horticulture Mission's programmes.
- ii) There is tremendous scope for development of horticulture in our state due to the advantageous agro-climatic conditions, and the state Government consider horticulture as the most potent mode of increasing agricultural income and employment opportunities for the people of the state. The state Government have accordingly decided to focus on the development of commercial horticulture in the state by taking advantages of various schemes of the central Government, National Horticulture Board, Coconut Development Board, other similar organization and above all the proposed National Horticulture Mission.
- iii) The State Govt. after careful consideration, decided to constitute a society at the state level namely, the **Orissa Horticulture Development Society** registered under the Registration of Societies Act XXI of 1860 having the no. 22020/1 of 2005-2006 to entrust to it task of planning, co-ordinating, supervising and monitoring of horticulture development activities in the state as would be necessary from time to time . The registered office of the society is situated in the premises of the Directorate of Horticulture, Bhubaneswar and its area of operation extends to the whole state.



1.3 Funds of the Society

1.3.1 The following shall constitute the funds of the Society,

- (i) Recurring and Non-recurring grants received from the State and Central Govts. and their Agencies.
- (ii) Donations/ Contributions received from any donors.
- (iii) Grants received from any National or International Organisation or Donor Agencies.
- (iv) Income from investments and other sources.


1.3.2 All funds of the Society shall be paid in to the Society's account maintained with the Bankers to the Society and shall not be withdrawn except on cheques duly signed by the Secretary, or jointly by the Secretary and the chairman of the Executive Committee or by any other officers of the Society singly or jointly as the Executive Committee may determine.

1.4 Authorities of the Society

1.4.1 General Body: The General Body consisting of all members of the society is the Supreme authority of the Society. The society shall be constituted with the following members and more members may be nominated or substituted by Govt. as the need may be.

1.	Minister, Agriculture	Chairman
2.	Minister, Finance	Member
3.	Minister (S), Cooperation	Member
4.	Minister (S), ST & SC, Welfare	Member
5.	Sri Devi Prasad Mishra, MLA	Member
6.	Dr. Nrusingha Sahoo, ML	Member
7.	Chief Secretary, Odisha	Member
8.	APC-cum-ACS	Member
9.	Secretary, Agriculture	Member
10.	Secretary, Finance Deptt.	Member
11.	Secretary, Cooperation Deptt.	Member
12.	Secretary, W & CD Deptt.	Member
13.	Secretary, Panchayati Raj Deptt.	Member
14.	Principal, Chief Conservator of Forest	Member
15.	Special Secretary, P & C Deptt.	Member
16.	Deputy Chief Administrator, KBK	Member
17.	President, OMFED	Member
18.	Prof. & HOD of Horticulture, OUAT	Member
19.	MD, APICOL	Member
20.	Two representatives of farmers	Member
21.	Two representatives of Central Govt.	Member
22.	Director, RPRC	Member
23.	Director, Bio-technology, Odisha	Member
24.	Director, Horticulture	Secretary

1.4.2 Executive Committee: There is an Executive Committee consisting of not less than nine and not more than twelve official and non-official members to be nominated by the Govt.



(Explanation: An official member is one who is nominated to be a member by virtue of an office held by him, and a non-official member is one who is nominated to be a member by name)

1.5 Powers and Functions of the Executive Committee

- (i) The General superintendence of the affairs of the Society are vested in the Executive Committee of the Society; and save as otherwise expressly delegated to the Project Management Committee or any other Committee or the Secretary or any other Officer of the Society, all the duties, functions, powers and rights whatsoever consequential or incidental to the carrying out of the objectives of the Society, shall be performed and exercised by the Executive Committee.
- (ii) In particular, and without prejudice to the generality of the foregoing provisions and subject to the provisions of the Memorandum, the Executive Committee may -
 - (a) receive grants, donations and contributions and have custody of the funds of the Society, and shall appoint the Bankers to the Society.
 - (b) approve the Annual Budget and Work Plan of the Society and sanction the expenditure within the limits of the Budget for approved purposes.
 - (c) issue guidelines to be followed for carrying out its various activities and implementation of programmes.
 - (d) decide on procurements of machinery and equipment, goods and services and hiring services of consultants and experts necessary for carrying out the objectives of the Society.
 - (e) enter into any agreement for and on behalf of the Society.
 - (f) institute and defend all legal proceedings of the Society.
 - (g) consider and approve the Annual Reports, Annual Accounts and Audit Reports of the Society.
 - (h) do any other thing for the furtherance of the objectives of the Society.
- (iii) The Executive Committee may delegate any of its functions and powers to the extent deemed appropriate to the Project Management Committee, or any other Committee constituted by it or to the Secretary or any other officer of the Society.
- (iv) The members of the Executive Committee are as follows :

Chief Secretary, Odisha	-	Chairman
APC-cum-Devt. Commissioner	-	Member
Principal Secretary, Agriculture Deptt.	-	Member
Commissioner-cum-Secretary, Co-operation Department	-	Member
Managing Director, APICOL	-	Member
Representative of Central Govt.	-	Member
Farmer representative nominated by Govt.	-	Member
Managing Director, OMFED	-	Member



FA-cum-Jt. Secretary, Agril. Deptt.	-	Member
Dy. Chief Administrator, KBK	-	Member
Director, Bio-technology	-	Member
Director, Horticulture	-	Secretary

1.6 Committees of the Executive Committee

The Executive Committee may appoint Committees for disposal of any of the business of the Society or for tendering advice in any matter pertaining to the Society.

1.6.1 Project Management Committee: Without Prejudice to the generality of the previous sub-rule, there shall be constituted an Executive Committee consisting of the following:

(a) Agriculture Production Commissioner	-	Chairman
(b) Principal Secretary, Agriculture Department	-	Member
(c) Head of the Deptt. of Horticulture, OUAT	-	Member
(d) Financial Adviser, Agriculture Department	-	Member
(e) Secretary of the Society	-	Member Secretary

1.6.2 Meeting of the Executive Committee

- The Executive Committee shall meet at least once in a quarter.
- The Secretary shall issue necessary notice for the meeting of the Executive Committee with the approval of the Chairman by giving the Executive committee members a notice of at least ten days before hand.
- Every meeting of the Executive Committee shall be presided over by the Chairman of the Committee.
- The Chairman shall have the power to invite any State or Central Government Officer connected with Horticulture development or any eminent expert in the field of Horticulture not being member of the Executive Committee to attend any meeting of the Executive Committee, but such invitee shall not have any right to vote.

1.6.3. Executive Committee Meeting

i. 5th E.C. Meeting held on 21.06.2011

	Members present:
Chief Secretary	- Chairman
Agril. Production Commissioner	- Member
Principal Secretary, Agril. Dept	- Member
M.D., APICOL, Bhubaneswar	- Member
M.D. OMFED, Bhubaneswar	- Member
CEO, Biotechnology, Odisha	- Member (Representative)
F.A.-cum -Joint Secretary, Agril. Dept. Bhubaneswar	- Member
Sri Khetrabasi Behera, Keonjhar,	- Farmers Representative



Director of Horticulture

- Member Secretary

Decision Taken:

- ♦ Post-facto approval of AAP 2011-12
- ♦ Progress made under NHM
- ♦ Strategy to be adopted for achievement of AAP 2011-12
- ♦ Convergence of NHM for beneficiaries under the Forest Rights Act
- ♦ Land for setting up of mall for vegetables, flowers & fruits
- ♦ Distribution of onion seeds out of State plan scheme

ii. 6th E.C. Meeting held on 09.02.2012

Members present:

Chief Secretary	-	Chairman
Agril. Production Commissioner	-	Member
Principal Secretary, Agril. Dept.	-	Member
Commissioner-cum-Secretary, Co-operation Deptt.	-	Member
M.D., APICOL, Bhubaneswar	-	Member
M.D. OMFED, Bhubaneswar	-	Member
Director, Biotechnology, Odisha	-	Member
F.A.-cum -Joint Secretary, Agril. Dept. Bhubaneswar	-	Member
Sri Karam Chand Mohanty,	-	Farmers Representative
Director of Horticulture	-	Member Secretary



Chief secretary, Odisha taking review on NHM

Decision Taken:

- ♦ Renaming of Orissa Horticulture Development Society to Odisha Horticulture Development Society
- ♦ Progress made under NHM
- ♦ Proposal of Annual Action Plan for 2012-13
- ♦ Implementation of Organic Farming & marketing infrastructure
- ♦ Cultivation of TC Banana in clusters
- ♦ Engagement of Chartered Accountant for accounting & audit of OHDS,
- ♦ Approval of project based proposals on Mushroom cultivation & spawn production
- ♦ Onion storage structure
- ♦ Utilisation of Cashew apple
- ♦ Demonstration in Farms
- ♦ Supply of hybrid vegetable seeds under VIUC
- ♦ Marketing support to farmers through
 - Future group, Maharastra



- Agro Holding International, Singapore
- National Spot Exchange Ltd., Mumbai
- Uttarakhand Organic Exports (India) Pvt. Ltd.
- International Traceability System Ltd., W. Delhi
- MGM Agrotech Pvt. Ltd., Odisha

1.6.4 Powers and Functions of the Project Management Committee: (Subject to the delegation by the Executive Committee, the Project Management Committee shall)

- (a) issue directions to the Secretary to carry out various activities and implement different programmes in the furtherance of the objectives of the Society.
- (b) approve projects and programmes and sanction expenditure for their implementation.
- (c) decide machinery, equipment, planting materials, and other goods and services to be procured and accept offers/bids, for award of contracts; or recommend to the Executive Committee for such acceptance or award.
- (d) scrutinize and present before the Executive Committee the Annual Work Plan and Budget of the Society and its Annual Report.
- (e) make periodic review of the activities of the Society and monitor the progress of programmes and projects taken up.

1.6.5 Meeting of the Project Management Committees

- (a) The Project Management Committee shall meet as often as necessary, but not less than once every two months. Other Committees may meet according to necessity.
- (b) An advance notice of at least three clear days shall be given by the Secretary for a meeting of any Committee to the members.
- (c) At least fifty percent members must be present at a Project Management Committee meeting.

1.6.6. Project Management Committee Meeting

i. 13th P.M.C. Meeting held on 05.05.2011

Members Present

- | | |
|---|----------------|
| 1. Sri R.N. Senapati, IAS, A.P.C | Chairman |
| 2. Sri R.L. Jamuda, IAS, Principal Secretary | Member |
| 3. Sri Sanjeev Ku. Chadha, IFS, Secy, OHDS | Member |
| 4. Dr. P.C. Lenka, Prof. & Head, Fruit Science | Member |
| 5. Sri Pitamber Biswal, OFS-I, FA-cum-
Joint Secretary, Agriculture Deptt. | Member |
| 6. Sri R.C. Das, Joint Director of Horticulture-II | Invited Member |

Decisions:

- ◆ Annual Action Plan under NHM 2011-12 approved



- ♦ Cultivation of Tissue Culture Banana
- ♦ Implementation of Spices Programme
- ♦ Cultivation of Tuberose
- ♦ Proposal for purchase of inputs like fertilizers instead of giving subsidy to farmers
- ♦ Utilization of Token money lying with OHDS accounts
- ♦ Engagement of Chartered Accountant for Audit Work of OHDS account
- ♦ Approval of Annual Action Plan 2011-12 under NMMP
- ♦ Procurement of Quality Planting Materials
- ♦ Establishment of Small Model Nursery & Small Nursery under Public Sector
- ♦ Development of Marketing Infrastructure at Malkanagiri
- ♦ Approval of Component under Mission Management

ii. 14th P.M.C. Meeting held on 13.09.2011

Members Present

Agril. Production Commissioner-cum-Devt. Commissioner	- Chairman
Principal Secretary, Agril. Dept.	- Member
Prof. & Head, Fruit Science	- Member
F.A.- cum- Addl. Secretary, Agril. Dept.	- Member
Director of Horticulture	- Member Secretary
Sri R.C. Das, JDH-II	- Invited Member
Sri D.Kandher, Addl. Secy, Agril. Dept.	- Invited Member

Decision Taken

- ♦ Annual Action Plan under NHM 2011-12
- ♦ Cultivation of TC Banana
- ♦ Implementation of Spices Programme
- ♦ Cultivation of Tuberose
- ♦ Establishment of PMU
- ♦ E-Despatch
- ♦ Engagement of Technical Exports
- ♦ Establishment of flower market & auction yard for fruits & vegetables
- ♦ Progress made under NVI for Urban Clusters

1.6.7 Annual General Body Meeting

- (a) The Society shall hold a General Body Meeting of all its members at least once every year.
- (b) Clear fourteen days notice shall be given to the members by the Secretary with the approval of the Chairman.
- (c) Not more than 15 months shall elapse between two successive annual General Body Meetings.
- (d) The Annual Report, the Balance Sheet and the Auditor's Report shall be placed at the Annual



General Body Meeting for consideration.

- (e) The Chairman of the Society shall preside over the Annual General Body Meeting.

1.6.8 Office Bearers

- (a) The Secretary shall be the Chief Executive Officer of the Society and all decisions and instructions of the Executive Committee and the Project Management Committee shall be carried out by him.
- (b) The Society subject to the provision of Rule-5.3 may appoint as many other officers at its Registered Office, or any Branch Office it may open in the districts of the State, as its may deem necessary for carrying out its functions.
- (c) Without prejudice to the generality of the previous Sub-rule, there may be appointed by the Society, an Administrative-cum-Finance Officer who shall discharge such duties and exercise such powers as will be delegated to him by the Executive Committee for assisting the Secretary in discharging his administrative and financial responsibilities.

1.7. Powers and functions of the Secretary

- 1.7.1. It shall be the duty of the Secretary to carry on the work, administration and management of the Society under the overall control and superintendence of the Executive Committee in conformity with the aims and objectives and rules and regulations of the Society.
- (a) He will receive all grants and contributions meant for the Society on behalf of the Executive Committee and deposit the same in the Fund of the Society.
- (b) He will maintain the Accounts of the Society with the Banks and operate the same in accordance with the arrangements approved by the Executive Committee.
- (c) He shall be responsible for drawings, endorsing and negotiating all Cheques, Bills of Exchange, Promissory Notes, Drafts, Govt. and other securities, as will be necessary for carrying on the transactions of the Society.
- (d) All sanctions of expenditure within the budget grant whether authorized by the Executive Committee or Executive Committee in accordance with the delegation of power shall be authenticated by the Secretary.
- (e) All contracts on behalf of the society shall be signed by the Secretary.
- (f) The Secretary shall file with the Registrar of Societies the documents required under Section-4 of the Act as amended from time to time.
- (g) He shall be responsible for presenting the Books of Accounts and records of the Society for inspection before all authorities to whom such records and books need be presented.
- (h) He shall represent the society and act on its behalf in all judicial, quasi-judicial proceedings and may sue or be sued on behalf of the society.

1.8. District Branches and formation of DMC

- (a) The society will establish its Branches in different Districts of the State for carrying out programmes of horticulture development, particularly the programmes under the National



Horticulture Mission. It may appoint any local horticulture department Officer as an Officer of the Society and may entrust to him the business relating to its activities in the District.

(b) The Society will designate one of its officers to be Manager for each Branch who will be in charge of transaction of the Society's business at the Branch and will operate the Society's Accounts at the Branch subject to the authorizations and stipulations of the Executive Committee.

(c) In every District there will be a Committee consisting of Officers of the concerned department and the Collector to supervise, coordinate and monitor the Horticulture development programmes. The members of the DMC are :-

- | | |
|---|----------------------------------|
| 1. Collector of the District | - Chairman |
| 2. Vice Chair Person, Zila Parisad | - Member |
| 3. P. D., DRDA | - Member |
| 4. P. A., ITDA | - Member |
| 5. Dy. Director, Agriculture | - Member |
| 6. Training Organizer, KVK (OUAT) | - Member |
| 7. Soil Conservation Officer | - Member |
| 8. One farmer to be nominated by the Collector for 2 years | - Member |
| 9. All the Horticulturists and AHOs I/c. of independent charge in the District. | - Member |
| 10. Dy. Director, Horticulture | - Member Secretary-cum- Convener |

1.8.1. TECHNICAL SUPPORT GROUP (TSG)


To give technical advice regarding implementation of various schemes under NHM and to guide the personnel linked with Horticultural activities under NHM, the Technical Support Group is constituted headed by Director of Horticulture as chairman and Joint Director Horticulture acts as member Convener. As per necessity the TSG meeting is held monthly or quarterly. The other members of the TSG are :-

1. M.D., APICOL
2. H.O.D., Dept. of Horticulture, OUAT
3. Head, CTCRI
4. Head, CHES
5. Deputy Director, NHB
6. Deputy Director, CDB
7. Dr. T. Maharana, Retd. ADR (Seeds) OUAT
8. Er. Nutan Kumar Dash, Retd. Executive Engineer
9. Dr. S. Panda, Retd. Director of Horticulture



Caption-TSG Meeting is in progress

Thus the members of TSG seated in a forum provide technical advice in developing a strategy,



preparing Annual Action Plan and suggesting feasibility of various horticultural activities in action or innovative approach if any.

1.8.2. Role and Functions of TSG

TSG will have the following role and functions :

- (i) To visit the States regularly and frequently to provide guidance in organizational and technical matters.
- (ii) To compile materials for conducting regional workshops in respect of different plantations and different aspects viz. production, post-harvest management, processing and marketing. There will be a year long calendar of capacity building and promotional events, workshops/seminars on different regions.
- (iii) To mount Supervision and Evaluation Mission.
- (iv) To conduct studies on different aspects of horticulture in different regions.
- (v) To document and disseminate case studies of success stories.
- (vi) Assist the states in capacity building programmes.
- (vii) Undertake publicity/information campaign to promote the Missions objectives.

1.8.3. TSG meeting

Date : 15.7.2011

- ♦ Revised cost of production of different planting materials
- ♦ Steps for strengthening PHM strategy in the State
- ♦ Strategy for enhancing production of Onion in the State

Date : 05.09.2011

- ♦ Scrutinisation of Project proposals on adoption & certification of Organic farming in Odisha
- ♦ Plantation of K. Lime gootee instead of seedlings
- ♦ Suitability of plantation of Black peeper, Cardamom & White Onion
- ♦ Seed production of spices & vegetable crops

Date : 14.12.2011

- ♦ Olive cultivation in Odisha
- ♦ Cultivation of Hybrid Vegetable under NVI
- ♦ Inclusion of cool cart, Sapota & Pineapple in AAP 2012-13
- ♦ Plastic crates to be supplied under NVI
- ♦ Banana cultivation under RKVY

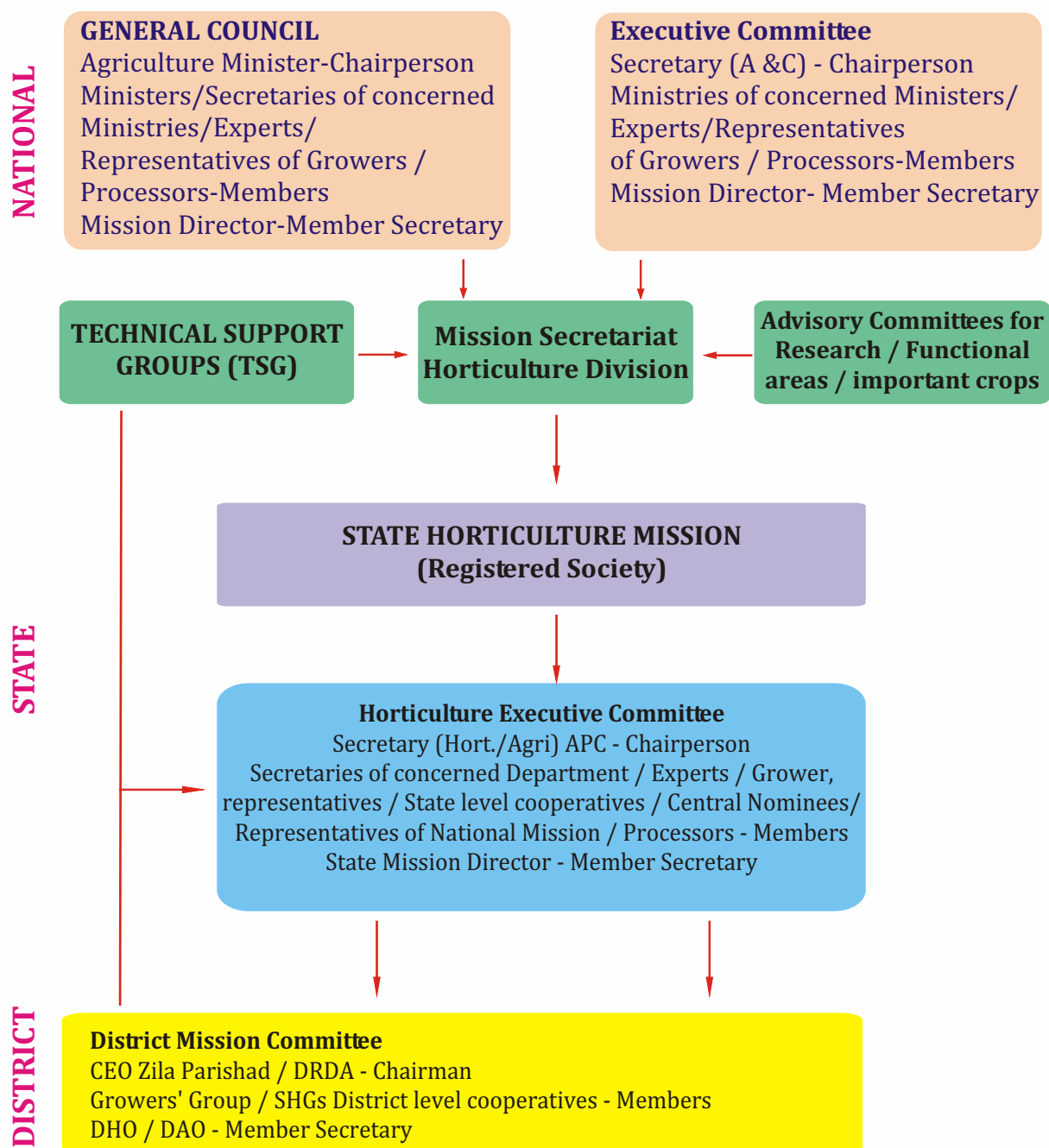
Date : 23.02.2012

- ♦ Annual Action Plan of NHM for 2011-12
- ♦ Cultivation of Tissue Culture Banana
- ♦ Implementation of Spices Program
- ♦ Cultivation of Tuberose
- ♦ Inclusion & cultivation of Mushroom in the AAP 2012-13

Date : 07.03.2012

- ♦ Cost of Cultivation of Fruit Crops
- ♦ Programmes for celebration of Year of Horticulture

1.8.4. The Indicative administrative structure of the NHM at the National / State and sub-state level



The above structure is indicative, The institutional arrangement at the state level and below state level would be flexible and the state will have the flexibility to adopt an appropriate model viz. cooperative federations in the pattern of NDDDB incorporated companies (with cooperatives for procurement joint sector for processing and corporates for marketing) or orient existing institutions to carry out the tasks of the Mission.



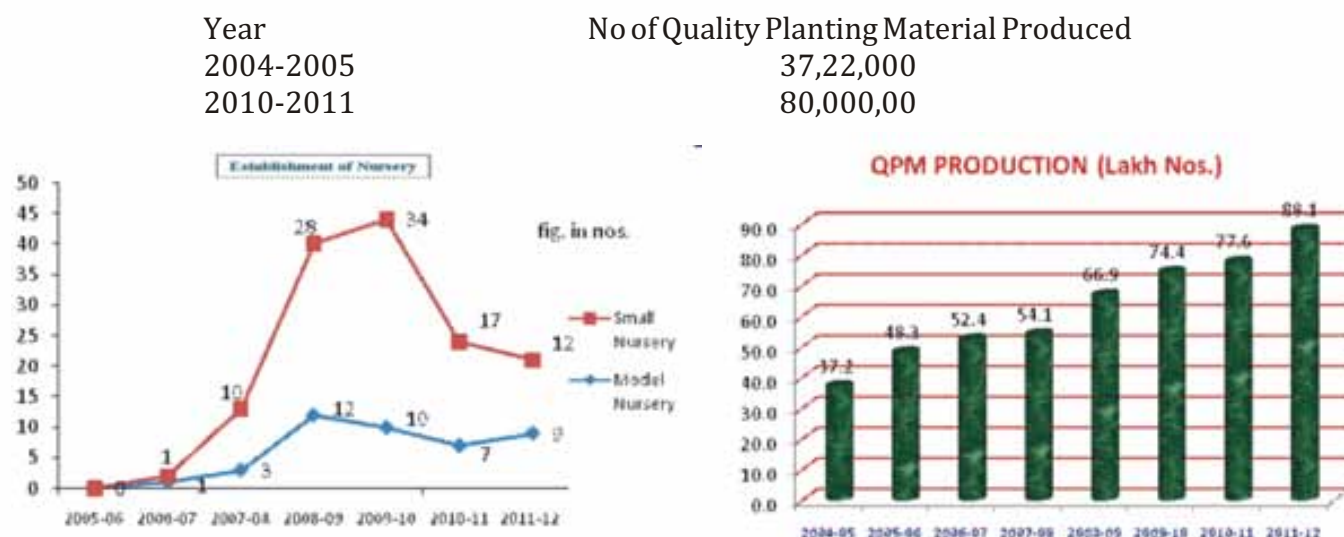
Major Achievements under NHM in 11TH Plan Period

The agro climatic and socio economic situations of Orissa favour growing of a number of horticultural crops. In the existing bio-physical constraints and limited infrastructures, we have to tap our horticulture potential by joining hands with different stakeholders in the field of research, extension, production, post harvest, value addition & marketing for making our state self sufficient. Besides this it is aimed to provide nutritional security and right to food for all.

National Horticulture Mission (NHM) is a flagship programme supported by Ministry of Agriculture, Government of India in Horticulture sector in the country with 85% Central Assistance and 15% State share. It was launched in 2005-06 (September, 2005). The mission was launched in 14 districts during 2005-06 and in subsequent years spread to other districts aggregating to 30 districts during 2012-13.

2.1. Production of Planting Material:

Prior to introduction of NHM in Odisha, the Department of Horticulture was procuring Mango grafts, Litchi gootees and Cashew grafts from other States. After introduction of NHM, with the objective of supplying QPM, 54 Public nurseries and 85 Private nurseries have been established /upgraded. Similarly 163 private nurseries have been registered as per the Odisha Fruit Nursery Act. Before introduction of NHM, the State was producing 37.22 lakhs of Q.P.M. in a year which has gone up to 80 lakhs. Recently after exhausting our requirement we are exporting Q.P.M. to Chhattisgarh, Jharkhand, Assam, Meghalaya and other neighbouring States. Accreditation of all the nurseries with NHB shall be accomplished during 2012. By establishment of such a large number of nurseries, a lot of employment opportunities have been generated in rural areas.



2.2 Establishment of New Gardens :

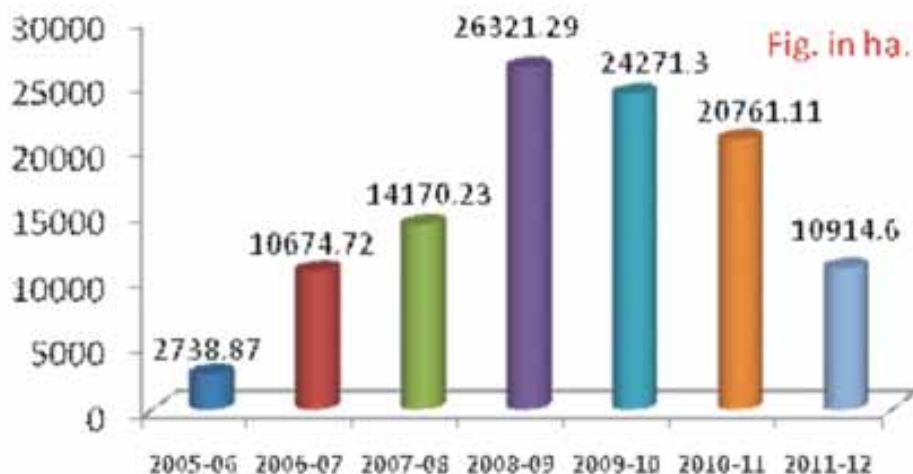
Prior to NHM, extensive areas were covered under Mango Plantation most of which were non descript varieties and were old, senile with low productivity. Sporadic plantation of Dusheri, Langra, Bombay green, Gulabkhas, Amarapalli were in existence. With introduction of NHM, systematic plantations with commercial and Hybrid varieties were taken up in a big way. As Odisha is known for early variety of Mango, the area expansion was extended to almost all the NHM districts.

Till now SHM has achieved 105761 ha of Mango plantations; out of which 50% are now in production stage. These gardens are being auctioned and Mango fruits are taken to North India for Marketing. The Productivity has increased from 3.44 MT to 4.55 MT/ha. and likely to go up. During this year the buyers have come forward and have signed MOU to purchase the fruits from farmer's groups after imparting training on good harvesting, sorting, grading, pest management, packaging and other PHM practices for uniform repining. This is likely to benefit the farmers immensely and reduce the post harvest losses.

In some specific pockets of Odisha there is microclimate which favours Litchi plantation. In view of the market demand of Litchi, State Horticulture Mission has achieved 838 ha of Litchi plantation. A large number of Litchi gootees are also being produced from mother stocks. The productivity of Litchi after introduction of NHM has gone up from 2.92 MT/ha to 4.56 MT/ha.

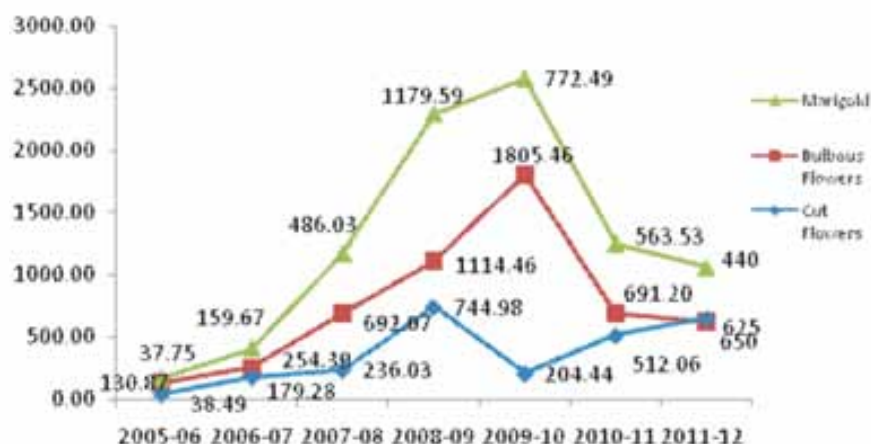
Among fruit crops, citrus is a major crop cultivated in Odisha. State Horticulture Mission has achieved 2007 ha of citrus plantation in potential districts of Odisha. The productivity of citrus after introduction of NHM has gone up from 7.79 MT/ha to 10.20 MT/ha.

The physiographic condition of the State is suitable for both table and culinary banana cultivation in all most all districts. The State Horticulture Mission has extended area under banana cultivation all NHM districts. Till date 8100 ha of banana plantation has been accomplished. By systemic planting and exposure visit of farmers outside the State, the productivity of banana has gone up from 12.9 MT/ha to 19.4 MT/ha.



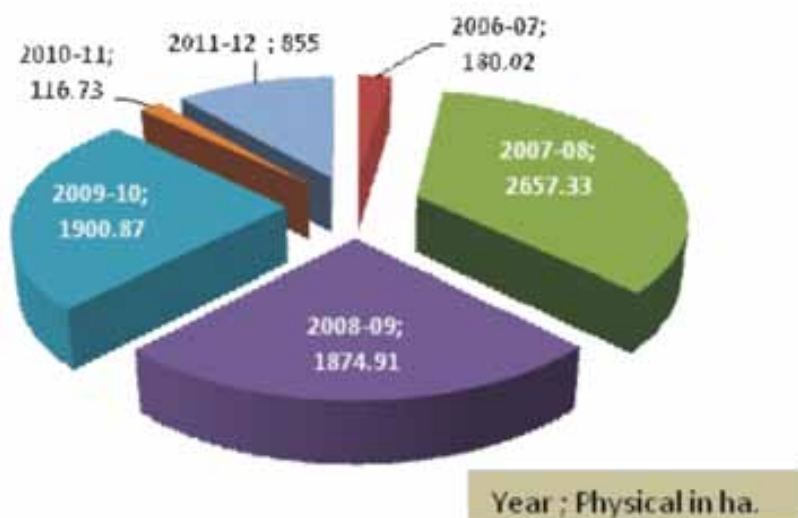
2.3. FLORICULTURE :

Prior to introduction of NHM Odisha was procuring flowers from West Bengal and Andhra Pradesh to meet the market demand. With introduction of NHM the area under floriculture has increased gradually and now the area under floriculture has gone up to 40000 ha. More entrepreneurs are taking up flower cultivation under protected condition by which there is a great demand for protected cultivation.



2.3. SPICES :

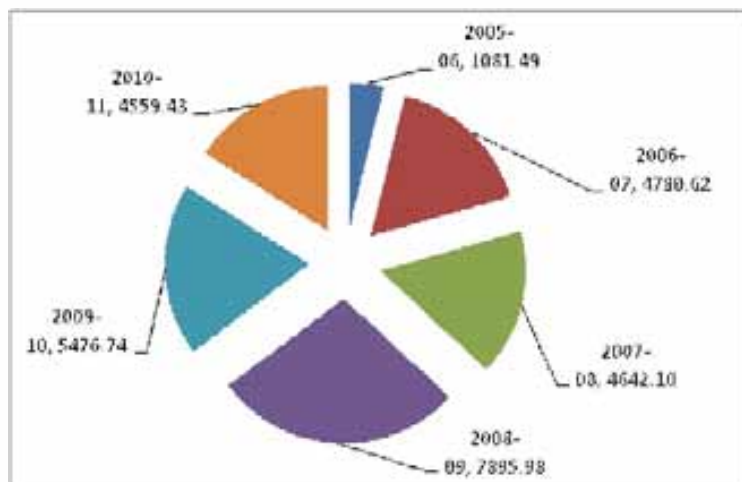
Prior to introduction of NHM, spices like Ginger and Turmeric were generally cultivated by the Tribals in Kandhamal, Koraput and few other interior districts on a large scale. But the varieties grown were mostly traditional ones with low production. An AEZ has been established for Ginger and Turmeric in the districts of Koraput and Kandhamal. Basing on the AEZ, spices like Ginger and Turmeric with high yielding varieties were introduced. Till date 6730 ha of Ginger and Turmeric have been planted. With productivity increasing from 1.93 MT/ha to 7.39 MT/ha in case of Ginger and 2.37 MT/ha to 7.56 MT/ha in case of Turmeric, there is immense scope for up-scaling the production. Marketing support is being facilitated for these crops to ensure better returns to farmers.





2.3. PLANTATION CROPS INCLUDING COASTAL HORTICULTURE (CASHEW):

Cashew has got tremendous potential in the State. Prior to introduction of NHM, Cashew of traditional seed origin varieties was grown. Majority of the plantations were old and senile for which the productivity was low. Plantations with improved varieties were introduced for increasing the productivity within a short span. Till now SHM has achieved 32500 ha of cashew plantation with productivity from 1.0 MT/ha 2.20 MT/ha. Processing of raw cashew is an area to be focussed in coming years to ensure better returns to the farmers.



2.3.The year wise major achievements:

Component	Unit	05-06	06-07	07-08	08-09	09-10	10-11	11-12	Total
-----------	------	-------	-------	-------	-------	-------	-------	-------	-------

Establishment of Nursery

Model Nursery - Deptt.	nos.		1	3	12	10	7	2	35
Small Nursery - Deptt.	nos.		1	10				2	13
Model Nursery - Private	nos.							7	7
Small Nursery - Private	nos.				28	34	17	10	89

Vegetable Seed Prod.

Vegetable Minikit	nos.	300000	290000	250000	53000	232000			1125000
	ha.	379.9	59.01	175.81	820.83	432.42	30.62		1898.59

Fruits

Mango	ha.	2738.87	10674.7	13813.9	24360.7	23488.00	20385.29	10300.00	105761.5
Aonla	ha.			332.49	764.19	31.46	1.81		1129.95
Litchi	ha.			0.58	318.86	170.03	148.89	251.4	889.76
K.Lime	ha.			23.23	556.44	479.45	188.38	363.20	1610.7
Orange	ha.				321.13	102.29	36.74		460.16
Banana Sucker	ha.	369.07	1272.71	1691.36	1848.64	1430.16	647.79	450	7709.73
Banana Tissue Culture	ha.					67.62	73.16	120	260.78

Cashew	ha.	1081.49	4780.62	4642.1	7895.98	5476.74	4559.43		28436.36
--------	-----	---------	---------	--------	---------	---------	---------	--	----------



Floriculture

Rose	ha.	38.49	179.28	236.03	744.98	204.44	512.06	650	2565.28
Gladioli	ha.	130.87	142.01	658.75	1004.38	1499.73	678.6	625	4739.34
Tuberose	ha.		112.38	33.32	110.08	305.72	12.61		574.11
Marigold	ha.	37.75	159.67	486.03	1179.59	772.49	563.53	340	3539.06
Goldenrod, Asparagus etc.	ha.						50	100	150

Spices

Ginger & Turmeric	ha.		180.02	2657.33	1874.91	1900.87	116.73	855	7584.86
-------------------	-----	--	--------	---------	---------	---------	--------	-----	----------------

Rejuvenation

Cashew	ha.			520.95	388.48				909.43
--------	-----	--	--	--------	--------	--	--	--	---------------

Vermi Compost

Big	nos.		74	292	207	167	144	300	1184
Small	nos.				769	1407	352		2528

HRD

Exp. Visit inside the State	nos.	245	1279	2892	4704	2686	544	1500	13850
Exp. Visit outside the State	nos.		36	200	1534	1355	328	600	4053
Plantation Training	Grp	119	201					3000	3320
IPM / INM Training	Grp	30	29		377	176	71		683

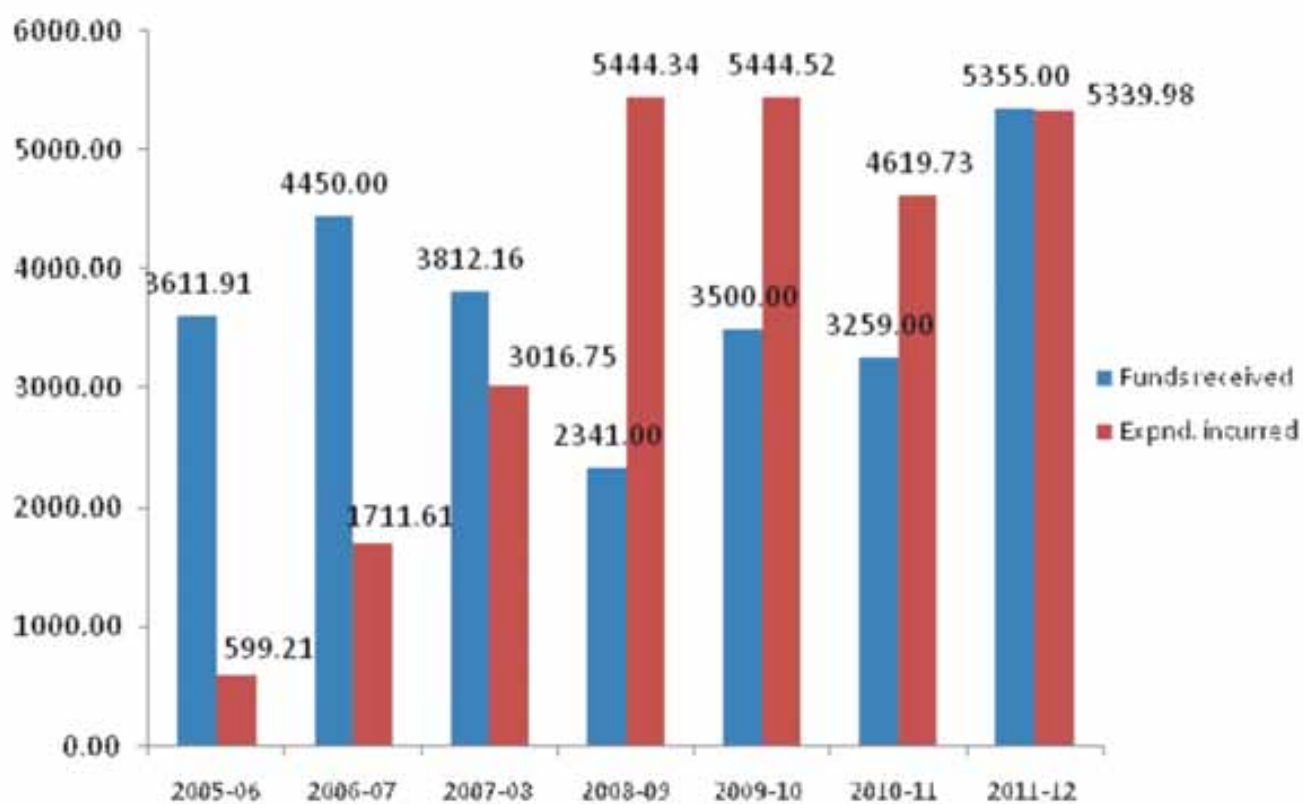
Onion Storage Structure	nos.		676	1465	1432	39	18	183	3813
Pack House	Nos.						1	438	439
Refrigerated Van	Nos.							13	13
Cold Storages	Nos.						1		1
Cashewnut Processing Unit	Nos.							6	6
Pre Cooling Chamber	Nos.							12	12

2.3. Financial Position

The National Horticulture Mission is a Centrally Sponsored Scheme. During 2005-06 and 2006-07 Govt. of India provided 100% grant and from 2007-08 it was converted to 85:15 (CS:SS). Till date Rs.263.29 crore has been received as Central Share and Rs.32.10 crore as State Share. Expenditure has been made to the tune of Rs.261.76 crore from Central Share and Rs.31.97 crore as State Share. The year wise detail of receipt and expenditure is given below

(Fig. in lakh Rs.)

Year	Pattern	Opening balance	Amount received	Total received	Total funds avail.	Expnd. incurred	Balance
2005-06			3611.91	3611.91		599.21	3012.70
2006-07		3012.70	4450.00	4450.00	7462.70	1711.61	5751.09
2007-08	CS	5751.09	3812.16	4471.23	10222.32	3016.75	7205.57
	SS		659.07				
2008-09	CS	7205.59	2341.00	2753.94	9959.53	5444.34	4036.96
	SS		412.94			478.23	
2009-10	CS	4036.96	3500.00	4117.64	8154.60	5444.52	1749.28
	SS		617.64			960.80	
2010-11	CS	1749.28	3259.00	3834.11	5583.39	4619.73	148.41
	SS		575.11			815.25	
2011-12	CS	148.41	5355.00	6299.99	6448.40	5339.98	166.07
	SS		944.99			942.35	
Total	CS		26329.07	29538.82		26176.14	
	SS		3209.75			3196.63	



Year wise receipt and expenditure under NHM



Hon'ble Chief Minister of Odisha Shri Naveen Patnaik with the Citation to Odisha in recognition of best performance under NHM



CHAPTER 3

Annual Action Plan 2011 - 12

The Annual Action Plan of 2011-12 under NHM had a financial outlay of Rs.6300.00 lakh where Central Share was Rs.5355.0 lakh and Rs.945.0 lakh was the State Share. The detail Action Plan is given below :

Component	Unit	Programme		
		Physical	Rate of Assistance / ha. / unit	Financial
A. Plantation Development including supporting Infrastructure				
1. Production of Planting Material				
i. Public Sector				
a. Model Nursery (2-4ha.)	Nos.	2	Max. of Rs.25.00 lakh / unit	50.00
b. Small Nursery (1 ha.)	Nos.	2	Max. of Rs.6.25 lakh / unit	12.50
ii. Private Sector				
a. Model Nursery (2-4ha.)	Nos.	7	Credit linked back-ended subsidy @ 50% of the cost of project limited to Rs.12.50 lakh per nursery for individual entrepreneur.	87.50
b. Small Nursery (1 ha.)	Nos.	10	Credit linked back-ended subsidy @ 50% of the cost of project limited to Rs.3.125 lakh per nursery for individual entrepreneur.	31.25
Total				181.25
2. Establishment of New Gardens (Area Expansion)				
i. Non Perennial				
Banana Sucker	ha.	600	50% of cost limited to Rs.22500/ ha. in 2 instalments of 75 : 25	101.25
Banana Tissue Culture	ha.	200	50% of cost limited to Rs.41602/ ha. in 2 instalments of 75 : 25	62.40
ii. Other Fruit Crops				
Mango	ha.	10300	75% of cost limited to Rs.16500/ ha. in 3 instalments of 60 : 20 : 20 subject to survival of 75% in 2nd yr. & 90% in 3rd yr.	1019.70
Litchi	ha.	300	75% of cost limited to Rs.21923/ ha. in 3 instalments of 60 : 20 : 20 subject to survival of 75% in 2nd yr. & 90% in 3rd yr.	39.46
Citrus	ha.	400	75% of cost limited to Rs.25005/ ha. in 3 instalments of 60 : 20 : 20 subject to survival of 75% in 2nd yr. & 90% in 3rd yr.	60.01
Total				1282.83



iii. Maintenance				
2nd year maint. of Mango	ha.	18000	Rs.6750/ - per ha.	1215.00
1st year maint. of Mango	ha.	17000	Rs.3300/ - per ha.	561.00
2nd year maint. of Litchi	ha.	121	Rs.6750/ - per ha.	8.17
1st year maint. of Litchi	ha.	127	Rs.4385/ - per ha.	5.57
2nd year maint. of Citrus	ha.	450	Rs.6750/ - per ha.	30.38
1st year maint. of Citrus	ha.	170	Rs.5001/ - per ha.	8.50
1st year maint. of Banana Sucker	ha.	425	Rs.5625/- per ha.	23.91
1st year maint. of Banana T.C.	ha.	65	Rs.10401/- per ha.	6.76
Total				1859.28
3. Mushrooms				
a. Integrated mushroom unit for spawn, compost production and training in Private Sector	nos.	2	50% of the cost for meeting the expnd. on infrastructure, as credit linked back ended	50.00
b. Spawn making unit in Private Sector	Nos.	4	50% of the cost as credit linked back ended	30.00
Total				80.00
4. Flowers				
a. Cut Flowers (Rose, Gerbera etc.)				
Small & Marginal Farmers	ha.	400	50% of the cost @ Rs.35000/ha. limited to 2ha. per beneficiary	140.00
Other farmer	ha.	300	33% of the cost @ Rs.23100/ha. limited to 4ha. Per beneficiary	69.30
b. Bulbous Flower (Gladioli, Tuberose etc.)				
Small & Marginal Farmers	ha.	400	50% of the cost @ Rs.45000/ha. limited to 2ha. per beneficiary	180.00
Other farmer	ha.	300	33% of the cost @ Rs.29700/ha. limited to 4ha. per beneficiary	89.10
c. Loose Flower (Marigold, Goldenrod etc.)				
Small & Marginal Farmers	ha.	200	50% of the cost @ Rs.12000/ha. limited to 2ha. per beneficiary	24.00
Other farmer	ha.	500	33% of the cost @ Rs.7920/ha. limited to 4ha. per beneficiary	39.60
Total				542.00
5. Spices				
Ginger	ha.	300	50% of the cost subject to a max. of Rs.12500/ha. limited to 4ha. per beneficiary	37.50
Turmeric	ha.	600	50% of the cost subject to a max. of Rs.12500/ha. limited to 4ha. per beneficiary	75.00
Total				112.50
6. Plantation crops including coastal horticulture				
2nd year maint. of Cashew plantation	ha.	4050	Rs.3375/ - per ha.	136.69
1st year maint. of Cashew plantation	ha.	4000	Rs.4000/ - per ha.	160.00
Total				296.69
7. Protected Cultivation				
i. Green House Structure				
a) Naturally Ventilated system				
Bamboo Structure	Sq.m.	10000 sq.m.	50% of the cost of limited to 5 units (each unit max. 200 Sq.m.) per beneficiary	18.75



ii. Plastic Mulching	ha.	200	50% of the total cost subject to a max. of Rs.10000/ ha. limited to 2 ha. per beneficiary	20.00
iii. Shadenet House				
a) Bamboo structure	Sq.m.	20000 sqm.	50% of the cost limited to 5 units (each unit limited to 200 Sq.m.) per beneficiary	30.00
iv. Anti Bird / Anti Hail Nets	Sq.m.	10000 sq.m.	50% of the cost limited to 5000 sq.m. per beneficiary	1.00
Total				69.75
8. Promotion of INM / IPM				
Promotion of IPM / INM	ha.	200	50% of cost subject to a max. of Rs.1000/ha. limited to a 4ha. / beneficiary	2.00
Total				2.00
9. Organic Farming				
Vermi Compost Units (Size 30' x 8' x 2.5')	Nos.	300	50% of cost	90.00
Total				90.00
10. Pollination support through bee keeping				
a) Honey bee colony	Nos.	1000	50% of cost limited to 50 colonies / beneficiary	7.00
b) Hives	nos.	1000	50% of cost limited to 50 colonies / beneficiary	8.00
c) Equipment including honey extractor (4 frame), food grade container (30kg), net, etc.	nos.	100	50% of cost limited to one set per beneficiary	7.00
Total				22.00
11. Horticulture Mechanization				
a) Power operated machines / tools including Power Saw and Plant Protection equipments etc.	Nos.	50	50% of cost limited to one set per beneficiary	8.75
Total				8.75
12. Human Resource Development				
Gardeners Training	Grp.	4	100% of the total cost	34.00
Training of farmers within the Dist.	Nos.	3000	100% of the total cost	12.00
Exposure visit of Farmers				
i) Within the State (5 days)	Nos.	1500	100% of the total cost (5 days)	22.50
Transport for within the State	LS		Rs.100 / per day / per farmer	7.50
ii) Outside the State (5 days)	Nos.	800	100% of the total cost	24.00
Transport for outside the State	LS		Rs.2000 / per farmer for 5 days	16.00
Training / study tour of technical staff / field functionaries				
Within the State	Nos.	100	100% of the total cost	0.20
Study tour to progressive States / units (grp of minimum 5 participants) (7 days)	Nos.	100	100% of the total cost	4.55
Total				120.75
Sub-Total				4667.79
B. Integrated Post Harvest Management				
1. Pack House / On farm collection & storage unit (9 x 6m)	Nos.	145	50% of the capital cost	217.50
2. Cold Storage Units (Const. / expansion / modernisation) (capacity 5000 MT) Gen area	Nos.	4 (Rs.6000 / MT)	Credit linked back-ended subsidy @ 40% of the cost of project in general case and 55% in the case of hilly & scheduled areas for individual entrepreneurs	480.00



3. Refer Vans / containers (6MT) Gen area	Nos.	3 (Rs.24.0 lakh / unit for 6 MT capacity)	Credit linked back-ended subsidy @ 40% of the cost of project in general areas	28.80
4. Ripening Chamber (2000 MT) Gen area	Nos.	1 (Rs.6000 / MT)		48.00
5.Cashew nut Processing Unit	Nos.	40	Credit linked back-ended subsidy @ 40% of the cost of project in general areas	240.00
6. Preservation Unit (low cost) (Up gradation)	Nos.	30	50% of the cost of Rs.1.00 lakh per unit	15.00
7. Preservation Unit (low cost) (New)	Nos.	20	50% of the cost of Rs.2.00 lakh per unit	20.00
8. Low Cost Onion Storage Structure (25 MT)	Nos.	50	50% of the cost of Rs.1.00 lakh per unit	25.00
9. Pusa Zero Energy Cool Chamber (100 kg.)	Nos.	1000	50% of the cost of Rs.4000 per unit	20.00
Total				1094.30
C. Estt. of marketing infrastructure for horticultural produce				
i. Estt of Terminal market	Nos.	1	25% to 40% (limited to Rs.50.0 crore) as PPP mode / Capital cost Rs.150.0 crore / project	50.00
ii. Functional Infrastructure for collection, sorting, grading, packing etc.	Nos.	5	Credit linked back-ended subsidy @ 40% of the capital cost of project in general areas and 55% in case of Hilly & Scheduled areas for individual entrepreneurs.	30.00
iii. Market extension,quality awareness & market led extension activities for fresh products	Nos.	1	100% assistance to Public sector / Capital cost Rs.3.00 lakh per event	3.00
Total				83.00
Sub-Total				1177.30
C. Mission Management				
1. State & District Mission Offices and implementing agencies for administrative expenses, project preparation, computerisation, contingency etc.	LS		5% of the total annual expenditure (100%)	314.91
2. Institutional strengthening, hire/purchase of vehicles, hardware / software	LS		Project based	50.00
3. Seminar, Conference, Workshop, Exhibition, Kissan Mela, Hort. Shows, honey festivals etc.				
State Level	Nos.	4	100% assistance / Rs.3.00 lakh / event of 2 days	12.00
District Level	Nos	24	100% assistance / Rs.2.00 lakh / event of 2 days	48.00
4. Technical support group (TSG) at State level for hiring experts / staffs, studies, monitoring & evaluation, mass media, publicity, video confence etc.	LS		100% of the cost - Project based	30.00
Total				454.91
Grand Total				6300.00
			CS	5355.00
			SS	945.00



Achievements during 2011-12

1. PLANTATION DEVELOPMENT INCLUDING SUPPORTING INFRASTRUCTURE:

1.1. Production of Planting Material:

Quality Planting Material (QPM) is the key input for successful crop production in terms of both quality and quantity. In case of perennial horticultural crops it is more so required as perennial crops have long gestation period. Model Nurseries were developed to step up the production of quality planting material both in public and private sectors. There are 158 registered private nurseries in the State which produce more than 35 lakhs planting material. Besides, Departmental farms are also producing at par 42 lakhs planting material. The main objective of the scheme is to produce quality planting materials of various horticultural crops to cater the demand of the farmers and export the balance planting material to the neighbouring states. This also helps in creating employment opportunities in rural areas.

(Fig. in Lakh Rs.)

Component	Physical achievement	Financial achievement
i. Public Sector		
a. Model Nursery (2-4ha.)	2 nos.	50.00
b. Small Nursery (1 ha.)	2 nos.	12.50
ii. Private Sector		
a. Model Nursery (2-4ha.)	7 nos.	87.50
b. Small Nursery (1 ha.)	10 nos.	31.25
Total	21 nos.	181.25



Production of seedlings under shadenet house

2. Establishment of New Gardens:

2.1. Banana Sucker:

The agro-climatic condition of the state is suitable for cultivation of various types of banana in all most all the districts. A number of varieties of banana and plantain are in cultivation in Odisha. Some promising varieties of the state like patakpura, muguni, podsing, etc. are having specific taste and aroma well accepted by the consumers. The green skinned bananas are preferred in western districts where as yellow skinned in coastal areas. The banana suckers are now being procured from the farmer's field after verification by the expert team constituting members from Department / KVK / OUAT. However, shortfall (if any) will be procured through expression of interest from the Govt. owned agencies.

2.2. Banana Tissue Culture:

Tissue culture banana plantlets are accepted by the farmers of Odisha, if there is assured buy back. Grande naine varieties are being promoted with 100 % buy back arrangements. The planting materials (TC plantlet) are being procured from RPRC / OUAT / NSC/ other government owned



Tissue Culture Banana Plantation in Boudh district.



Tissue Culture Banana with drip irrigation.

The component-wise physical and financial achievements for 2011-12 is as follows:

Component	Unit	(Fin. in Lakh Rs.)	
		Physical achievement	Financial achievement
Banana Sucker	ha.	600	101.25
Banana Tissue Culture	ha.	150	46.80
Total		750	148.05



Tissue Culture Banana at fruiting

2.3 Mango:

Mango is grown over an area of 1.9 lakh ha. in the state. It has a very good export potential due to early ripening. The production has improved a lot due to development of mango orchards with regular bearing varieties. Since commencement of NHM, mango was given first priority and more than 1.25 lakh ha new plantations have been developed. In order to prevent market glut and price fall, GoI is according priority to post harvest care and reduce the target under new mango plantation. During 2011-12, 10300 ha. has been covered Dasheri, Langra, Bombay green, Gulabkhas, Amrapalli varieties. The quality planting material available in the state both in departmental / private nurseries will be utilized for this purpose. An expert team has been constituted by Govt. for verification of quality / availability of the planting materials before procurement from the registered private nurseries. Few new plantations of mango have been taken up by dovetailing with OTELP programme.



Mango plantation taken up under NHM at fruiting stage in Sundargarh district

2.4. Litchi:

Litchi, the queen of fruits, is performing well in certain pockets in the western part of the state. Deogarh, Kuchinda, Sundargarh, Rayagada, Laxmipur are the important litchi growing areas. Litchi plantations were taken up over an area of 300 ha. Muzafarpur and China are the leading varieties grown. The required quality planting materials were utilized from departmental farms and registered private nurseries inside the state.

2.5. Citrus (Orange / K.Lime):

Citrus is also a major fruit crop cultivated in Odisha. Orange and lime are the citrus types grown commercially.



Fruit tree plantation under MGNREGS in Koraput



Citrus plantations were taken up over an area of 400 ha with growing of Nagpur Santra and Kinnow varieties of orange & local K.Lime.

2.6. Maintenance of Fruit plantations (Perennial):

Maintenance of new plantations is essential for success of the plantation programme and proper growth of the plant. The cost of maintenance has been paid to the farmers as per the pervious structure in shape of online payment. The physical and financial achievements under this component are given in the table.

(Fin. in Lakh Rs.)

Component	Unit	Physical achievement	Financial achievement
Mango	ha.	10300	1019.70
Litchi	ha.	251.4	33.07
Citrus	ha.	363.2	54.49
2nd year maint. of Mango	ha.	15300	1032.75
1st yr. maint. of Mango	ha.	15504.5	511.65
2nd year maint. of Litchi	ha.	57.2	3.86
1st year maint. of Litchi	ha.	85.4	3.74
2nd year maint. of Citrus	ha.	323	21.80
1st year maint. of Citrus	ha.	152	7.60
1 st year maint. of Banana Sucker	ha.	400	22.50
1 st year maint. of Banana TC	ha.	30	3.12
Total		31852.1	1607.03

2.6. Mushroom :

Odisha tops the list among the states in the country for the production of paddy straw mushroom. There is wide scope for cultivation of paddy straw and oyster mushrooms in Odisha due to more acreage under paddy cultivation. Mushroom cultivation has been taken up as cottage industry in some villages of the state. In the sub urban areas cultivation of mushrooms is a profitable enterprise as the demand of the mushroom is increasing. One such unit has been established in Ganjam district for the first time in the state under NHM.



Mushroom cultivation under Coconut Orchard

2.7. Flowers :

The area under floriculture is gradually increasing due to increase in demand at urban areas. Establishment of Flower Mandi and flower kiosk in the name of “Kusum Batika” in collaboration with Bhubaneswar Municipal Corporation made the forward linkage in marketing has been strengthened. Assistance has been provided to small & marginal farmers and other farmers for cultivation of flower over an area of 2100 ha. with a financial expenditure of Rs.542.00 lakh. The physical and financial achievement and the rate of assistance are furnished below :



(Fin. in lakh Rs.)

Component	Unit	Physical achievement	Financial achievement
Cut Flowers (Rose, Gerbera etc.)			
Small & Marginal Farmer	Ha.	400	140.00
Other Farmer	Ha.	300	69.30
Bulbous Flowers (Gladioli, Tuberose etc.)			
Small & Marginal Farmer	Ha.	400	180.00
Other Farmer	Ha.	300	89.10
Loose Flowers (Marigold, Goldenrod etc.)			
Small & Marginal Farmer	Ha.	200	24.00
Other Farmer	Ha.	500	39.60
Total		2100 ha.	542.00



Marigold cultivation in Sundargarh district under NHM-2011-12

2.6. Spices :

Ginger and Turmeric are the major spices crops of Odisha. The Tribals at Kandhamal, Koraput grow it as organic in a traditional manner using local varieties. Emphasis has been given for use of & few other interior districts in large scale. But the varieties grown are mostly traditional ones. Emphasis has been given for utilization of high yielding varieties of Turmeric (Roma, Surama, Ranga, Rashmi, Allepy, Lakadong & Rajendrasonia etc.) and Ginger (Suprava & Suruchi etc.). An AEZ has been established for Ginger & Turmeric in the districts of Koraput and Kandhamal district. Ginger & turmeric have been taken up over an area of **1755 ha.** with a total financial expenditure of **Rs. 219.38**

2.9.2. The details of physical and financial expenditure is given below:

(Fin. in lakh Rs.)

Component	Unit	Physical achievement	Financial achievement
Ginger	Ha.	600	75.00
Turmeric	Ha.	1155	144.38
Total		1755	219.38

2.10 Plantation crops including coastal horticulture (Cashew) 2.10.1. Maintenance:

Cashew plantation has been taken up during previous years under Director, Cashew Cocoa Development Corporation. Maintenance of new plantations is essential for success of the plantation programme and proper growth of the plant. The cost of maintenance has been paid to the farmers as per the pervious structure in shape of online payment. This will ensure success of the plantation and proper growth of the plant.



Cashew plantation in Degraded soil with polymulch

2.10.2. The physical and financial achievement is as follows :

(Fig. in Lakh Rs.)

Component	Unit	Physical achievement	Financial achievement
2 nd year maint. of Cashew	Ha.	3495	117.96
1 st year maint. of Cashew	Ha.	3345	133.80
Total		6840	251.76

2.11. Protected Cultivation :

2.11.1. Natural calamities occur frequently in the state of Odisha. The production of planting material production as well as crops gets impeded due to adverse weather conditions. Protected



Naturally ventilated type poly houses are in demand

cultivation of ornamental crops and vegetables are being promoted in the state. Production of vegetable seedlings is also being taken up in these structures to save field mortality. Construction of green house / shade net house as well as plastic mulching has been taken up in a greater way. Expenditure of **Rs.96.99 lakh** has been incurred as per the statement given below:



(Fig. in Lakh Rs.)

Component	Unit	Physical Programme	Financial Outlay
Green House Structure (Naturally Ventilated System)			
Bamboo Structure	Sq.m.	16000	30.00
Plastic Mulching	Ha.	125	12.50
Shadenet House			
Bamboo Structure	Sq.m.	35663	53.49
Anti Bird / Anti Hail Nets	Sq.m.	10000	1.00
Total		61788	96.99



Farmers visiting capsicum crop under poly house in Maharashtra

2.12. Promotion of IPM / INM :

2.12.1. Integrated Pest Management (IPM) and Integrated Nutrient Management (INM) is preferred over chemical methods in view of environmental and health hazards associated with the large scale use of inorganic pesticides and for better production & productivity. Assistance has been provided @ Rs.1000/- per ha to the farmers to take up integrated pest management over an area of **30 ha** with a financial outlay of **Rs. 0.30 lakh**.

2.13. Organic Farming :

2.13.1. Compost is one of the nature's best mulches and soil amendments. Compost improves soil structure, aeration and water-holding capacity. The quality and quantity of organic manures play a vital role in the maintenance of soil quality in sustainable agriculture production. It is estimated that in cities and rural areas of India nearly 700 million tones organic waste is generated annually which is



either burned or land filled. There is an urgent need to compost all available organic wastes from cities and towns. The recycling of crop residues and organic wastes through composting methods is the key technology for disposal and production of organic manures and minimization of environmental pollution. A technology for recycling of organic wastes by earthworms has been developed. Construction of **300** vermi compost pits of 30' x 8' x 2.5' dimension for permanent structure with financial expenditure of **Rs.90.00 lakh**.

2.13.2. Organic agriculture is gaining momentum worldwide. The organic market is also growing in leaps and bounds. It aims at production of organic food items along with social development. Many of the areas of the state especially tribal pockets are organic by default. No organic adoption and certification programme has been under taken since inception of NHM programme. However organic farming adoption and certification has been taken up over **2500 ha** in various districts by two government owned agencies utilizing **Rs. 175.00 lakh** during 2011-12.



(Financial in Lakh Rs.)

Component	Unit	Physical achievement	Financial achievement
Honey bee colony	Nos.	2000	22.90
Hives	Nos.	2000	22.92
Equipment including honey extractor (4 frame), food grade container (30kg), net, etc.	Nos.	100	1.15
Total		4100	46.98

2.15. Horticulture Mechanization :

2.15.1. Most of the horticultural activities are labour intensive. To reduce the cost of cultivation and to decrease the human drudgery, farm mechanization is being promoted. Mechanization also helps to



Demonstration of post hole digger

carry out the timely farm operations to enhance productivity. Assistance under power operated machines / tools including power saw and power tiller etc are being provided to the farmers for smooth operation of horticultural activities. Horticulture mechanization has been taken up with an expenditure of **Rs.99.75 lakh**. The details of physical and financial break up is given below:



(Financial in Lakh Rs.)

Component	Physical achievement	Financial achievement
Power operated machines / tools including Power Saw and Plant Protection equipments etc.	570	99.75
Total	570	99.75

2.16. HRD including Horticulture Institute :

2.16.1. Training of the farmers inside the state includes plantation training, INM/IPM training, Post Harvest Management training etc. Training has been provided to the farmers who will take up plantation & other allied activities. The training activity has been carried out both by Govt. sector as well as private and NGO's. In order to familiarize the farmer about the production practices being followed in other states, training-cum-exposure visit outside state were organized.

Trainers at the level of district officers / sub-division officers / field functionaries are trained to the modern technological advances in horticulture at various ICAR Institutes in or outside the state.



Training of Officers of the Directorate at CHES, Bhubaneswar.

School of Horticulture, Khurda / Horticulture Training Institute at Kandhamal are engaged in imparting training to the gardeners and grafters employed under the Horticulture Directorate. These institutes are also imparting training to the unemployed youth for self employment for last five years under this component. The financial assistance has been provided by Govt. of India for strengthening infrastructure of this institute along with the funds for conducting training programmes for Gardeners. Training is imparted on bed preparation / planting / grafting / IPM / INM / Nursery management etc. to unemployed youth so that they become entrepreneurs or get self employed in horticulture sector and to create skills for employability in the horticulture units / farms & upgrade their knowledge. Two batches at School of Horticulture, Khurda and two batches at Horticulture Training Institute, Kandhamal under gardeners training of 6 months duration were taken up during 2011-12.

Two progressive farmers engaged in floriculture / horticulture sent to Amsterdam, Netherlands to acquire knowledge on advance technologies and interact with the farmers there.

The details of various activities undertaken within this component have been furnished below with a total financial outlay of Rs.97.25 lakh.



(Fin. in Lakh Rs.)

Component	Unit	Physical achievement	Financial achievement
Gardeners Training	Grp.	4	34.00
Training of farmers within the District	Nos.	3000	12.00
Exposure Visit of Farmers			
Within the State (5 days)	Nos.	1500	22.50
Transport for within the State	LS		7.50
Outside the State (5 days)	Nos.	800	24.00
Transport for outside the State	LS		16.00
Training / study tour of technical staff / field functionaries			
Within the State	Nos.	100	0.20
Study tour to progressive States / units (group of minimum 5 participants) (7 days)	Nos.	100	4.55
Total		5504	97.25

3. POST HARVEST INFRASTRUCTURE AND MANAGEMENT

3.1. Post harvest management is very crucial to minimize loss and to enhance the marketability of the produce through proper packing, sorting, grading, storage and processing. Due to inadequate market infrastructure, lack of proper market linkage and market intelligence the marketable surplus got damaged right in the production center and the farmers do not get proper price for their produce. It is therefore, essential that pack houses, cold storages, refrigerated vans, mobile processing unit etc. are to be promoted by providing assistance to the entrepreneurs.



PHM of flowers of Bhoomi Agro Enterprises in Tangi, Cuttack.

3.2. For creating better marketing facilities for the farmers to sell their produce it is desirable to construct one Terminal market in Odisha. It is Terminal market at Nildunguri in Sambalpur district has been proposed. A Global Tender was floated and the bids received are under evaluation.

3.3. Rural markets in the producing areas are not having even basic facilities of grading, sorting, packing for distance marketing. The rural markets in some districts like Keonjhar, Kandhamal, Koraput and Sundargarh are being developed in association with ITDAS.



The vegetable pack house in Ganjam district established under NHM-2011-12

(Fin. in lakh Rs.)

Component	Unit	Physical achievement	Financial achievement
Pack House / On farm collection & storage unit (Size 9 x 6m)	Nos.	438	450.00
Cold Storage Units (Const. / expansion / modernisation) (capacity 5000 MT)	Nos.	1	50.00
Ripening Chamber (2000 MT)	Nos.		
Refer Vans / containers (6MT)	Nos.	13	176.80
Cashew Processing Unit	Nos.	6	54.00
Preservation Unit (low cost) (Up gradation)	Nos.	3	1.50
Preservation Unit (low cost) (New)	Nos.	5	5.00
Low Cost Onion Storage Structure (25 MT)	Nos.	183	50.00
Pusa Zero Energy Cool Chamber (100 kg.)	Nos.	1000	20.00
Establishment of Tissue Culture Lab	Nos	1	36.66
Seed Processing Unit	Nos	1	200.00
Pre Cooling Chamber- 5 MT	Nos	8	31.18
Pre Cooling Chamber-10 MT	Nos	4	25.74
Total		1663	1100.88
Estt of Terminal market	Nos.		20.00
Functional Infrastructure for collection, sorting, grading, packing etc.	Nos.	4	30.00
Market extension, quality awareness & market led extension activities for fresh products	LS		2.00
Total		4	52.00

5. MISSION MANAGEMENT

5.1. In the event of commissioning of Horticulture Mission at the State as well as district level the workload has increased manifold. But the existing infrastructure and staff strength under the Directorate of Horticulture is highly inadequate to cope up with the additional workload. Financial support to the Directorate of Horticulture, Dy. Director of Horticulture and the Horticulturists / Assistant Horticulture Officers at the field level was provided for additional manpower through contractual appointment. Two vehicles, Xerox machine, computer units, e-Dak, funds for mobility are provided for proper implementation and monitoring of the programme.

5.2. Visit and meeting of TSG members, preparation of monitoring report & hiring of technical services etc. has been made under this component for Mission activities. Besides, State level shows, District level shows, Pre-seasonal workshop has been organized to disseminate latest knowledge in the field of horticulture and solve the farmers problem by direct interacting. Information, Education and Communication materials were produced for distribution among the farmers.

5.3. The detail physical and financial achievement of the mission management component is given below:

Component	Physical Programme	Financial
State & District Mission Structure including additional manpower & project preparation cost	Preparation of Action Plan, Additional man power, monitoring, mobility, Admn. expenses, etc.	311.45
Institutional strengthening, hire/purchase of vehicles, hardware / software	Vehicle, Computer, Xerox machine, Telephone, FAX, Video conferencing, Contractual appointment of staff & hiring of Tech. Services at Mission HQ	50.00
Seminar, Conference, Workshop, Exhibition, Kissan Mela, Hort. Shows, honey festivals etc.		
State Level shows	4 nos.	12.00
District level Shows	24 nos.	48.00
Technical support group (TSG) at State level for hiring experts / staffs, studies, monitoring & evaluation, mass media, publicity, video conference etc.		30.00
Total	28	451.45



CHAPTER 5

Marketing of Horticultural Produce

A number of horticultural crops are grown in the state. The growing pockets are primarily located at rural areas. Rural mundies (*Haat*) and local middle men play a great role in the marketing of these produce. Many a times the poor farmers are being cheated in price as well as in weight. Some of the produces remain unsold and farmers are even reluctant to harvest the crop due to higher harvesting cost than the price realization. Further middle men in most of the districts lease out fruit orchards at throw away price especially in tribal pockets. The rural mandies are devoid of basic infrastructures and facilities for organised marketing.

Interventions:

To strengthen the existing marketing infrastructure, Director of Horticulture signed LoI with different corporate retail giants and other agencies involved in marketing of agricultural produce for assured marketing of the horticulture produce. It will help the farmers to get the remunerative price of their produce at their door step and check the role of middle man in the existing marketing system as well as increase the belongingness towards the orchard and attract more number of farmers for cultivation of horticultural crops.

Future Group and Internal Traceability System (ITS) are involved in procurement of mango. ITS provided training to the farmers on GAP and post harvest management of mango fruits to increase bearing and produce more number of marketable produce. Farmer groups are organized in the districts of Sambalpur, Angul, Dhenkanal, Mayurbhanj and Keonjhar with registration. Future Group will sell “Amrapalli” mangoes in the trade brand of Produce from Odisha. Procurement of mango has been started and marketed during 2012-13 by ITS in Delhi and Lucknow markets. The farmers got more than double the price they normally got.



Mangoes being sorted, graded and packed in Mayurbhanj district.

Onion is one of the cash crop in the districts of Bolangir, Boudh and Angul. Farmers used to sell onion at a very low price at the time of harvesting due to glut in the market and lack of storage. To avoid this situation and give better price to the farmers ITS was involved for procurement of Onion from Boudh and Bolangir Districts. Producer limited companies (Farmer groups) are registered for empanelment as vendor. One such company has already been registered in Boudh district and onion from Boudh was sold at Delhi market which was flagged off by Hon'ble Speaker, Odisha Legislative Assembly on 09.04.2012. Future strategy is to develop Titilagarh area as onion hub of Eastern India at par with Nasik and market onions in eastern and north eastern States. Kharif onion is also proposed to be introduced to boost production round the year.



MoU signed with MGM Agriventures for buy back arrangement of Grande Naine banana



Sri P.K.Amat, Hon'ble Speaker, Odisha Legislative Assembly flag off the 1st trip of onion to New Delhi on 09.04.2012 from Boudh.

There is demand for export of Banana especially green peel varieties. The soil and climatic conditions of Odisha are suitable for cultivation of banana. Buy back arrangement has been made for the cultivation and marketing of Grande naine variety. MoU has been signed with MGM Agri Ventures for buy back arrangement. However farmers are free to sell their produce to any one who offers better price.

Under Vegetable Initiative in Urban Cluster, one Aggregator-cum-Developer has been identified for procurement of vegetables directly from the farmers at their door step at a remunerative price and sell them in the urban areas through their own retail outlets in the brand name of Udyan Fresh at a reasonable price direct to the consumers. 4-such retail counters have been constructed at various locations in Bhubaneswar in consultation with BMC which will commence very soon. Vending cool carts will move around the Bhubaneswar city with fresh vegetables. This is being implemented to ensure better price to the farmers and supply of good quality vegetables to consumers at cheaper rates.

For the development of functional infrastructure of rural markets ITDAs have been entrusted with development of markets along with provision of basic amenities in Sundargarh, Keonjhar, Kandhamal and Koraput. This has empowered the tribal farmers to access the nearby markets get better remuneration.



CHAPTER 6

Convergence

For bringing out equitable and balance development of Horticulture in all the Districts of the State and target small and marginal farmers in remote tribal areas, convergence of NHM schemes with related schemes like IAP, MGNREGS, OTELP, Tribal Development Schemes, Watershed Mission, Forestry Schemes, RKVY etc. shall be a focus area to maximise benefits to the farmers. Increased focus on Post Harvest Management and market linkages would ameliorate the sufferings of the farmers.

During 2011-12, steps have been taken for convergence of schemes like Plantation, Post Harvest Management and Marketing. Four projects submitted by ST & SC Department on functional infrastructure of market have already been approved by Govt. of India. Concerned ITDA are the implementing agencies. Other activities like Refrigerated Van, Pack Houses are also being taken up through ST & SC Development Department to reduce post harvest losses through cool chain solution.



Activities like rejuvenation of old and senile plantations of Cashew have been taken up through Odisha Forest Development Corporation Ltd. & Odisha State Cashew Development Corporation Ltd.

Steps are also being taken for up-liftment of the marginal farmers. Dovetailing the NHM programme with OTELP programme benefits goes directly to the poorest of the poor. Preferences are given for providing assistance to the tribals obtained land under Forest Rights Act. Besides, Drip Irrigation in demonstration plots are being taken up in the High schools of ST & SC Development Department for which 70% of the expenditure will be borne from National Mission on Micro Irrigation and balance by ST & SC Development Department.

Awards



Citation to Odisha in recognition of Best performance under NHM.

*Dr. Sanjiv Kumar Chadha,
Director of Horticulture receiving
Best stall award from Hon'ble Governor,
Odisha at Adivasimela 2012*



*Horticulture Stall stood 2nd at the
Krishi Mahostav'2012
at Janata Maidan, C.S.Pur,
Bhubaneswar*



Photo News



Sri R.N. Senapati, IAS, DC-cum-Addl. Chief Secretary, Odisha visiting Convergence Programme with Water Resources Deptt.



Sri B.K. Pattnaik, Chief Secretary, Odisha visiting the stall of Directorate of Horticulture at Adivasimela 2012



Stake holders meeting on Bee Keeping to get double benefit



Horticulture Stall at the Krishi Mahostav'2012 at Janata Maidan, C.S.Pur, Bhubaneswar



Shri Ramesh Chandra Majhi, Hon'ble Minister, Information Technology, Fisheries & Animal Resources Development, Government of Odisha visiting the Horticulture Stall at the Krishi Mahostav'2012 at Janata Maidan, Bhubaneswar



Horticulture Stall at IITF, New Delhi



Aggregation Point under VIUC



Pack house



Retail outlet under VIUC



Refrigerated VAN



Cool cart for vegetable vending under VIUC



Officers verifying gladioli corms at Netherlands



Tomato cultivation under poly house at Netherlands



Examining of gladioli corms at source



Unloading of mangoes in Mayurbhanj



Sorting of mangoes



Farmers interaction on Honey Bee



Farmers visiting ginger crop in Maharashtra



Exposure visit to Tissue Culture Banana crops



Exposure visit of farmers to Maharashtra



Farmers visiting Tube rose crop in Andhra Pradesh



Farmers visit to Modern Nursery



Farmers visit to Vermi Compost



Scientist- farmer interaction



Verification of Activities under NHM by Joint Inspection Team

A joint inspection team was constituted with members from Govt. of India, OUAT & State Govt. with an objective :

- 1) to evaluate the quantity & quality of work done under different components of NHM.
- 2) to observe the change in scenario of Horticulture after intervention of NHM in the state.
- 3) to observe the changes in economic status of rural poor due to adoption of horticultural activities implemented under NHM.

Members included in Joint Inspection Team

1. Dr. Om Prakash, Chief Consultant (NHM), GOI.
2. Dr. V.N. Habbali, Director, Directorate of Cashew & Cocoa Devt. (DCCD), Kochi
3. Dr. Tamil Selvan, Director, Directorate of Arecanut & Spices Devt., Calicut
4. Dr. D.K. Dora, Prof & Head, Dept. of Post Harvest Management, OUAT
5. Dr. J.N. Das, Professor, Dept. of Horticulture, OUAT
6. Sri S.C. Mohanta, Fruit Technologist, Directorate of Horticulture

Date with place of visit of Joint inspection Team

22.07.11 to 29.7.11 : Angul, Deogarh, Sundargarh & Sambalpur

28.09.11 to 5.10.11 : Koraput, Malkangiri, Rayagada, Gajapati, Ganjam



*Principal Secretary, Agriculture
addressing the farmers at Boudh*



*Dr. Farooq Abdulla, Union Minister,
visiting the protected cultivation
of flowers at Ugratara, Khordha*



CHAPTER 8

Training Programmes Outside the State

1. Dr.R.C.Sahoo, Banana Mycologist, Dr.S.R.Dash, Climatologist, Dr.P.K.Bhanja, Horticulturist, (MGP), Sri T.K.Mohanty, ADA Marketing and Sri M.R.Nanda, DHO-II trained at DMR, Solan on Mushroom production from 21-27 July, 2011
2. Sri S.K.Subudhi, Farm Superintendebnt, Ch. D.Das, ARE and Sri T.N.Rao, Demonstration Assistant have gone through training on Post Harvest Technology in Horticultural Crops from 17-24 August, 2011 at IIHR, Bengaluru, Karnataka.
3. Sri R.C.Das, JDH Cuttack and Sri S.K.Subudhi, Farm Superintendent trained at CPCRI, Simla on Healthy Seed Potato Production-Conventional vs Hi-Tech from 11-18 September, 2011.
4. Sri K.Jena, Horticulturist, Cuttack and Sri B.Barik, Assistant Horticulture Officer, Nimapada trained at CPCRI, Simla on Production for processing potatoes and post harvest technology from 20-27 September'2011.
5. Sri S.Sahoo, Horticulturist, Bhubaneswar and Sri M.K.Samantray, Horticulturist, Paralakhemundi got training on Eco Friendly Management of Tuber crops based cropping system at CTCRI, Sreekariyam, Kerala from 11-18th October, 2011.
6. Sri S.K.Swain, Junior Horticulture Officer has under gone training at IARI, New Delhi from 3-10 November, 2011 on Nematode problems in field and horticultural crop and their management.
7. Dr.S.R.Dash, Climatologist and Er.K.C.Chandrasekhar, Assistant Agril. Engineer, Ganjam trained at MPUAT, Udaipur, Rajasthan on Protected Cultivation of Horticultural crops from 15-22 November, 2011.
8. Sri G.Hansdha, Sri M.M.Majhi and S.S.Majhi trained at Bhopal from 6-13 January, 2012 on Improved Agriculture machinery for farm mechanization and entrepreneurship through custom hiring for self employment opportunities.
9. Sri.S.C.Behera, Horticulturist, Berhampur and Sri A.B.Maity, Horticulturist, Anandapur trained at MANAGE, Hyderabad on Promotion of Post Harvest Technologies and value addition in Agriculture and allied sectors from 9-13 January, 2012.
10. Sri.S.K.Seth, Horticulturist, Panpose and Er.B.K.Hota, assistant Agril. Engineer trained at MPUAT, Udaipur, Rajasthan on Post Harvest management and value addition of Horticultural crops from 10-17 January, 2012.
11. Sri.B.K.Rout, Horticulturist, Gunupur and Sri C.R.Dinda, Horticulturist, Koraput trained at MANAGE, Hyderabad on Integrated Weed management in vegetavble and tropical fruit crops 18-25 January, 2012.



Our officers at a training programme on mushroom at DMR, Solan



DAS PATTNAIK & CO.
CHARTERED ACCOUNTANTS

404, Sahid Nagar, Bhubaneswar-7
Ph. : 0674-2548945, Mob. : 9437001945
E-mail : pkdpattnaik@yahoo.com

AUDITOR'S REPORT

We have audited the attached Balance Sheet of M/s. Orissa Horticulture Development Society (OHDS) as at 31st March, 2011 and also the Income and Expenditure account for the year ended on that date annexed thereto read with notes there on. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statement. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

Further subject to;

- a) Bank balance confirmations not made available to us, and income tax deduction at source on interest credited by bank were not made available for our audit purpose.
- b) Reference is invited to point number B2 to notes on accounts, paid vouchers in have were shown under cash in hand, amounting to Rs. 17,33,918/-.
- c) Amount collected from farmers in form of (farmers share / token money / transportation cost / sale proceeds / application fee) etc in earlier years have been parked separately for "Trainig.Faciliation and marketing linkage for farmers". This is vide decision taken In meeting held on 21.06.2011. Accordingly Rs.12,10,21,332.00 is transferred to the said account.
- d) Advance shown under "Mission advance" (as per schedule - 8 to the balance sheet) amounting to Rs. 1,09,08,569.50 represents money remittances made at the year end remaining in transit and accounted in the subsequent year.
- e) Also reference is invited to point nos. B3 and B4 of notes on accounts on " Other advance" (as per schedule - 5 to the balance sheet) amounting to Rs. 5,80,34,595.25 and "Non-Mission advance" (as per schedule - 7 to the balance sheet) amounting to Rs. 1,69,738.00.





DAS PATTNAIK & CO.
CHARTERED ACCOUNTANTS

404, Sahid Nagar, Bhubaneswar-7
Ph. : 0674-2548945, Mob. : 9437001945
E-mail : pkdpattnaik@yahoo.com

- f) All grant receipts; unutilized grant and fresh grants received from central and state shares all are accounted in one single account in the books of the society. The grants should have been accounted for on scheme wise and central and state share wise.
- g) Interest accrued on Bank balance out of unspent grants have been accounted / treated as the Society's income till last year. However, as per the letter No. F.No.20-12/2007 - Hort. II, Govt. of India, Deptt. of Agr. And Co-op (Hort. Div.) dated 11 th August,2009 the said interest needs to be separately kept and cannot be treated as society income. As a result the interest accrued and accounted for till last year needs to be reversed and kept separately. The accumulated deficit of the society shall be increased to that extent;

We report that :-

- (i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.
- (ii) In our opinion, proper books of account have been kept by the society so far as appears from our examination of those books of the head office. We have relied on the yearly returns received from branches, where we have not visited .
- (iii) The balance sheet dealt with by this report are in agreement with the books of account.
- (iv) In our opinion and to the best of our information and according to the explanations given to us, the said accounts together with notes on accounts thereon the attached thereto, give a true and fair view in conformity with the accounting principles generally accepted in India.
- a) In the case of Balance Sheet, of the state of affairs of the society as at 31 st March,20 11.
- b) In the case of Income & Expenditure Account, Excess of Expenditure over Income of the society for the year ended on that date.

For **DAS PATTNAIK & CO.**
CHARTERED ACCOUNTANTS


(CA. P.K. DAS PATTNAIK)



PARTNER.

M.No.085406

FRN:321097E

Dated : 15.11.11

Place: Bhubaneswar

*** Audit for the year 2011-12 is in progress. The final Audit Report is to be ready by July, 2012.**



Directorate of Horticulture

Odisha Horticulture Development Society
Udyan Bhawan, Bhubaneswar - 751015, Odisha
Ph.: 0674 - 2551831, Fax : 2551978/25517726
E-mail: udyanhort@sify.com
www.nhm.nic.in, www.orihort.in