

OPERATIONAL GUIDELINES MISSION FOR INTEGRATED DEVELOPMENT OF HORTICULTURE

1. INTRODUCTION

1.1 Mission for Integrated Development of Horticulture (MIDH) is a Centrally Sponsored Scheme for the holistic growth of the horticulture sector covering fruits, vegetables, root & tuber crops, mushrooms, spices, flowers, medicinal & aromatic plants, coconut, cashew, cocoa, bamboo and other horticulture crops. While Government of India (GOI) contributes 60%, of total outlay for developmental programmes in all the States except States in North East and Himalayas, 40% share is contributed by State Governments. In the case of North Eastern and Himalayan States, GOI contribution will be 90% and 10% share is contributed by these States. For programmes of National Horticulture Board (NHB), Coconut Development Board (CDB), Central Institute for Horticulture (CIH), Nagaland National Level Agencies (NLA) and UTs without legislature GOI contribution will be 100%. Guidelines regarding implementation of the scheme are described hereunder.

1.2 MIDH will have the following sub-schemes and area of operations:

Sl. No.	Sub Scheme	Target group / Area of operation
1.	NHM	All States & UTs except States in NE and Himalayan Region covering all districts.
2.	HMNEH	All States in NE and Himalayan Region covering all districts.
3.	NBM	All States and UTs
4.	NHB	All States & UTs focusing on commercial horticulture
5.	CDB	All States and UTs
6.	CIH	NE States, focusing on HRD and capacity building

MIDH will work closely in convergence with other schemes towards development of all horticulture crops.

1.3 MIDH will also provide technical advice and administrative support to State Governments/ State Horticulture Missions (SHMs) for horticulture specific commodities and other horticulture related activities funded by Rashtriya Krishi Vikas Yojana (RKVY).

2. MISSION OBJECTIVES

2.1 Main objectives of Mission are:

- a) Promote holistic growth of horticulture sector, including bamboo and coconut through area based regionally differentiated strategies, which includes 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;
- b) Encourage farmers to take activities in cluster approach.
- c) Enhance horticulture production, augment farmers' income and strengthen nutritional security;
- d) Improve productivity by way of quality germplasm, planting material and water use efficiency through Micro Irrigation;
- e) Support skill development and create employment generation opportunities for rural youth in horticulture and post harvest management, especially in the cold chain sector;
- f) Enhance production of high value horticulture crops to reduce import dependence.

3. STRATEGY

3.1 To achieve above objectives, the mission will adopt the following strategies:

- a) Adopt an end-to-end holistic approach covering pre-production, production, post harvest management, processing and marketing for appropriate returns to growers/producers;
- b) Create commodity crop specific CoEs in the country to encourage technology adoption.
- c) Promote and adoption of new technologies for horticulture crops with special focus on cold chain infrastructure for extending the shelf life of perishables;
- d) Improve productivity through:
 - i. Diversification, from traditional crops to plantations, orchards, vineyards, flowers, vegetable gardens, medicinal plants and bamboo plantation.
 - ii. Extension of appropriate technology to farmers for high-tech horticulture including protected cultivation and precision farming.
 - iii. Increase of acreage of orchards and horticulture crops, particularly in States where total area under horticulture is less than 50% of agricultural area

- e) Improve post harvest management, processing for value addition and marketing infrastructure.
- f) Adopt a coordinated approach and promote partnership, convergence and synergy among R&D, processing and marketing agencies in public as well as private sectors, at the National, Regional, State and district levels;
- g) Support capacity-building and Human Resource Development at all levels.

4. MISSION STRUCTURE

(I) National Level

a) General Council

4.1 The Mission will have a General Council (GC) at National level under Chairmanship of Union Agriculture Minister. The composition of GC will be as follows:

Minister of Agriculture	: Chairman
Ministers of Commerce, Food Processing Industries, Rural Development, Development of North Eastern Region (DONER), NITI Aayog, Member (Agriculture)	: Members
Secretary, Agriculture & FW	: Member
Director General, ICAR	: Member
Additional Secretary (I/C of Horticulture, DA& FW)	: Member
Managing Director, NHB	: Member
Chairman, CDB	: Member
Horticulture Commissioner	: Member
Growers' representatives & Experts from Horticulture Sector, Federation of Indian Chambers of Commerce & Industry (FICCI). (7Members)	: Members
Joint Secretary, DA & FW & Mission Director	: Member Secretary

4.2 GC will be the apex body giving overall direction and guidance to Mission, monitor and review its progress and performance, without affecting the pattern of assistance as approved by CCEA. GC will be empowered to lay down and amend operational guidelines including cost norms as well as modification of operational nature and addition or deletion of any crop or component. GC will meet at least once a year. Tenure of non-official members of GC will be for three years from the date of nomination.

b) Executive Committee:

4.3 Executive Committee (EC), headed by Secretary, Department of Agriculture & FW (DA&FW), will oversee activities of the Mission. The EC will comprise of the following:

Secretary (A& FW) : Chairperson

Secretaries - Ministry/Department of AYUSH, Food Processing : Members
Industries, Rural Development, M/o DONER, Bio-Technology,
Cooperation

Principal Adviser (Agriculture), NITI Aayog : Members

Institutions – Director General, ICAR; Director General ICFRE, : Members
Director General, CSIR; Additional Secretary (In charge of
Horticulture, DA&FW); Additional Secretary & FA, DA&FW; Joint
Secretary (Plant Protection). Horticulture Commissioner; Adviser
(Horticulture Statistics); Chairman, APEDA; Managing Director,
NHB; CEO CDB; Agriculture Marketing Advisor, DA&FW; COO
(NCCD)

Three Experts (Production, Post Harvest Management and : Members
Marketing)

Joint Secretary, DA&FW & Mission Director : Member
Secretary

4.4 EC is empowered to approve projects on the basis of approved subsidy norms. EC is also empowered to approve special interventions for tackling emergent/unforeseen requirements. EC can also constitute Empowered Monitoring Committee (EMC) at Central Level and delegate powers to EMC for approving projects of CoEs and NLAs in accordance with approved cost norms and pattern of assistance. EC will also consist of three non-official experts in the field of Production, Post Harvest Management and Marketing. Tenure of the experts will be for three years from the date of nomination.

4.5 Horticulture Division in DA&FW will provide the necessary support to GC/EC/EMC and will administer NHM, HMNEH, NBM and CIH. Managing Director (NHB) will oversee the programmes of NHB while CEO, CDB will oversee the CDB programmes. The existing structure of the Boards and Missions will be maintained to provide general directions for these programmes. EC/EMC will ensure smooth functional linkages among different agencies and meet at least once a year or as required.

(II) State Level

A) State Level Sanctioning Committee

4.6 For NHM, HMNEH and NBM, State Level Sanctioning Committee (SLSC) under Chairmanship of Chief Secretary having representatives from other concerned Departments of State Government including Forests, the State Agricultural Universities (SAU), Institutes under Indian Council of Agricultural Research (ICAR), FPOs, etc will approve the Annual Action Plan of MIDH, and oversee the implementation of programmes of the respective States.

B) State Level Executive Committee (SLEC) at State Level:

A State Level Executive Committee (SLEC) would be constituted at the State level under the Chairmanship of Principal Secretary (Horticulture)/APC/ACS having representatives' from Ministry of Agriculture (GoI) NCCD, Department of State agriculture, Finance, banking sector and other relevant departments. State Mission Director NHM, HMNEH and NBM will be Member Secretary of the concerned SLEC. At operational level, State Governments will have freedom to establish State Horticulture Mission (SHM) and/or State Bamboo Development Authority (SBDA) as a suitable agency for implementing Mission programmes at State and District levels. Panchayati Raj Institutions (PRI) existing in the State will be involved in the implementation of the programme.

4.7 State and District level structures will be established keeping in view the specific requirement of the States. Formation of Farmer Groups/ Cooperatives of farmers and their tie-up with Financial Institutions and Market Aggregators would be encouraged.

4.8 State level agency will have the following functions:

- a) Prepare Strategic/Perspective and annual State Level Action Plan in consonance with Mission's goals and objectives and in close co-ordination with Technical Support Group, SAUs and ICAR institutes and oversee its implementation;
- b) The State Missions will follow a cluster based approach for promotion of horticulture and for focused intervention-economies of scale. States may go for identification of crop specific clusters and preferred/required relaxations in the provisions for the same.

- c) States must develop a fair transparent system of seeking application from beneficiaries and providing benefit/assistance under the program.
- d) Organize base-line survey and feasibility studies for distinct areas/clusters (District, sub-District, or a group of Districts) to determine status of horticultural/bamboo production, potential and demand, and tailor assistance accordingly. Similar studies would also be undertaken for other components of the programme;
- e) Receive funds from Central Government, State Government and other sources for carrying on Mission's activities, maintain proper accounts thereof and submit utilization certificate to concerned agencies. State will also maintain SNA account as per instructions of GoI in order to ensure transparency in use of funds released by Center as well as by State under the programme;
- f) Release funds to implementing organizations and oversee, monitor & review implementation of the programmes;
- g) Assist and oversee implementation of schematic activities in the States through farmers, societies, Self-Help Groups, State institutions and other similar entities;
- h) Organize workshops, seminars and training programmes for all interest groups/associations at State level, with the help of SAUs, ICAR Institutes, KVKs and other institutions having technical expertise;
- i) Operationalize Information Communication Technology (ICT) enabled Management Information System (MIS) up to grass root level through MIDH SURAKSHA PORTAL. Each State will develop and host its own web site.
- j) State will ensure updation of progress in the MIS Portal of MIDHSURAKSHA Portal and use of this Portal for implementation of MIDH scheme in the State. States having own MIS portal must integrate their portal with MIDHSURAKSHA Portal within 6 months and furnish monthly progress reports to DAC and also upload the same on MIDH SURAKSHA web portal by 5th of each month.

(III) District Level

At District level, District Mission Committee (DMC) will be responsible for carrying forward the objectives of the Mission for project formulation, implementation and monitoring. The DMC may be headed by the District Collector/District Magistrate/Chief Executive Officer (CEO) of Zila Parishad/CEO of District Rural Development Agency (DRDA)/CEO of Forest Development Agencies (FDA)/ District Development Officer, having as members, representatives from concerned line

Departments, Marketing Boards, local banks, Self Help Groups and other Non-Government organizations. Identification of Horticulture zone or cluster and development of online transparent system for beneficiary selection and digitization.

(IV) Panchayati Raj Institutions

4.9 District Planning Committee and Panchayati Raj Institutions (PRI) will be involved in implementing the programme commensurate with their expertise and available infrastructure. They will have a role in implementation of MIDH with regard to:-

- a) Identification of crops/species and beneficiaries in consultation with District Panchyats.
- b) Training, Extension and Awareness creation through Panchayats and Gram Sabhas (GS).
- c) Organize PRI and GS meetings and giving feed back to the concerned officials with regard to implementation of MIDH.

4.10 Activity mapping with regard to devolution of Funds, Functions and Functionaries is given at **Annexure I**

(V) Technical Support Group (TSG)

4.11 The Mission will have a strong technical support component composed of domain experts for implementing activities of NHM, HMNEH and NBM. The TSG will be operated through NHB. For post harvest management and cold chain projects across States, technical support will be provided by NCCD. Service providers could also be engaged for providing technical services in accordance with Terms of Reference laid for the purpose and approved by the Chairman, EC. Horticulture Commissioner/DDG (Hort.), DA&FW will advise the TSGs on all issues relating to R&D planting material, area expansion, rejuvenation, canopy management, INM/IPM and organic farming. TSG would comprise personnel at different levels, who will provide technical services and their honorarium will commensurate with their qualifications and experience. Fresh graduates/Post Graduates having knowledge in horticulture, refrigeration, computer professionals, Agribusiness graduates etc. and young professionals could also be a part of TSG.

4.12 TSG will have the following role and functions:

- a) TSG will provide technical support to the Mission for horticulture components.
- b) TSG will help in developing commodity/crop wise cluster map and potential areas in coordination with ICAR/NHB.
- c) TSG will undertake visits to States and projects and provide guidance and ensuring monitoring of the projects.
- d) Conduct studies on different aspects of horticulture/bamboo in all regions.
- e) Document and disseminate case studies of success stories.
- f) Assist States in capacity building programmes.
- g) Provide monthly feed-back reports and any other responsibility assigned

4.13 State Missions can also set up State level TSG on the pattern of national level TSG for project formulation, appraisal and concurrent monitoring. State Missions will have freedom to hire consultants for providing technical support at State as well as District level and for this purpose, funds will be provided from States' TSG component. For NBM, zone wise Bamboo Technical Support Groups (BTSG) are to be formed. These BTSGs will have to submit their Annual Action Plans to NBM Cell. Broad function of BTSGs will be same as of TSGs. The BTSG will be housed at the National/Regional level institutions located in different regions, which will have flexible norms for recruiting professionals on contract.

4.14 Indicative composition of TSG at National, State and District level is given in **Annexure-II**.

4.15 Delegation of powers for approving projects by SLSC and Mission Director is given in **Annexure-III**.

5. PROCEDURE FOR APPROVAL AND IMPLEMENTATION

Strategy and Roadmap

5.1 Based on the strength of the sector in the State, the TSG of the State in coordination with Agriculture University/State Agriculture University/ICAR will develop a crop specific prospective plan to ensure and enable perspective planning. States will prepare the perspective/strategic plan and road map for overall development of horticulture including Bamboo in respective State, duly projecting the

targets to be achieved during the respective Finance Commission period. This will form the basis for preparing Annual Action Plan (AAP). The Strategy & Road Map formulated by States should invariably contain information on geography & climate, potential of horticulture/bamboo development, availability of land, SWOT analysis, strategy for development and plan of action proposed to be taken to achieve goals in each district of the State. The document should focus on crops having comparative advantage and natural potential for development in the State, adoption of cluster approach for production and linking with available infrastructure, or to be created, for post harvest management, processing, marketing and export. While selecting the cluster, preference should be given to those areas where natural resource base and water resources have been developed under watershed development programmes, Rashtriya Krishi Vikas Yojana (RKVY), Mahatma Gandhi National Rural Employment Guarantee Scheme (MNREGS), etc. Priority should be given for development of such crops, which are required to meet current and future demands.

In order to promote and scale-up the production of globally popular important fruits of high nutritional value and for import substitution of these crops, State should focus on promotion of these crops while formulation of Annual Action Plans.

Annual Action Plan (AAP)

5.2 AAP needs to be supported with data/write up on outcome of past interventions covering the details of area expansion (variety/species introduced, increase in productivity achieved and number of clusters created), water resource development as per felt need of the State (amount of irrigation potential created, whether linked with micro irrigation, maintenance etc), INM/IPM (including requisite infrastructure created and how these are being utilized for benefit of farmers) and organic farming. Area expansion should be determined based on availability of planting material and a seed/planting material sub-plan shall be prepared separately as part of AAP.

5.3 Ministry of Agriculture & FW will communicate the tentative outlay for the year to each State / NLA, which in turn will indicate sector-wise/district-wise allocation. Agencies at District level will prepare Annual Action Plan (AAP) keeping in view Mission and local priority/potential and submit the plan to State Horticulture/Bamboo Mission upto 125% of the tentative allocation within the allocated sum. The States may engage TSG/Consultancy services for preparation of Perspective/Strategic/Annual Action Plans. State Horticulture/ Bamboo Mission in

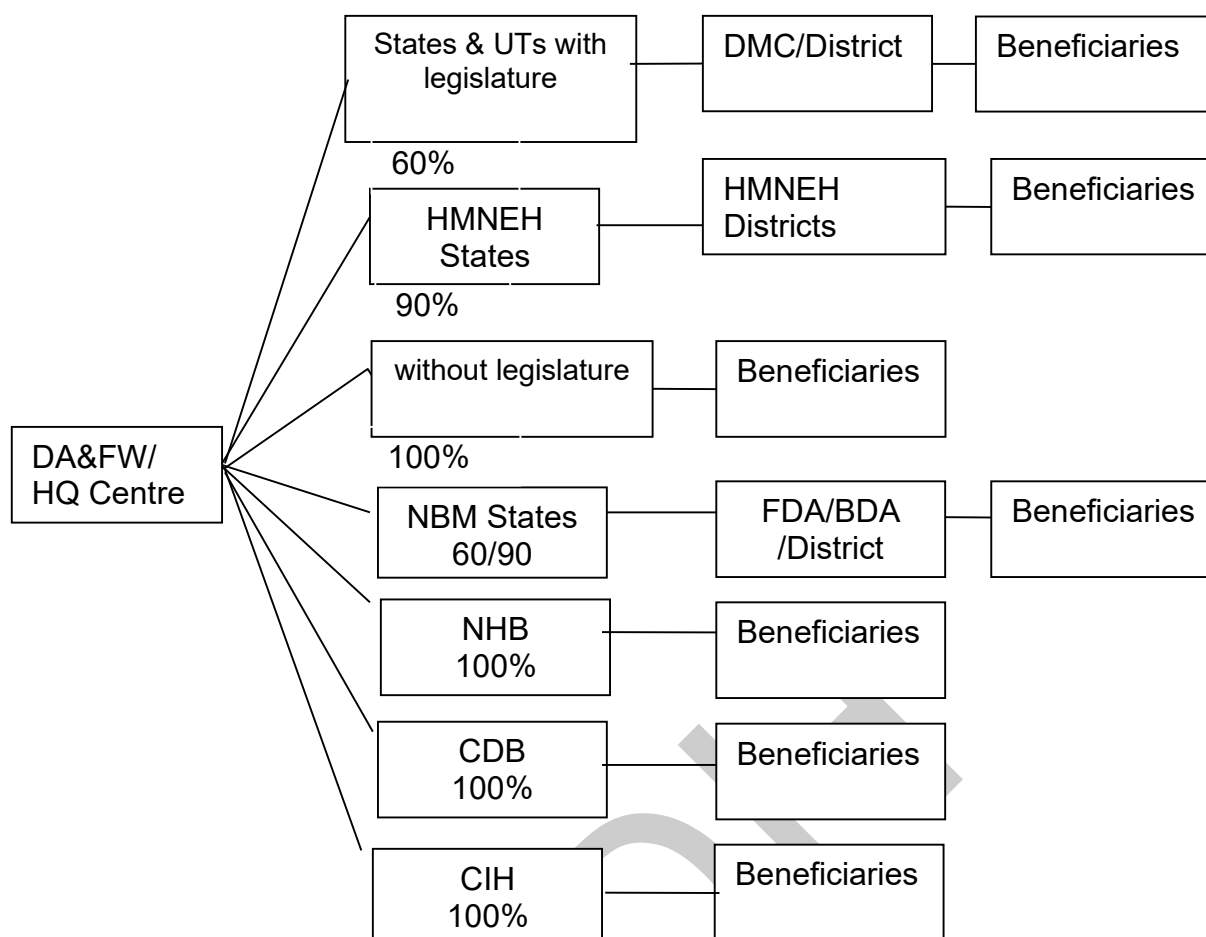
turn will prepare a consolidated proposal for State as a whole, get it vetted by the State Level Sanctioning Committee (SLSC) and furnish the same, including copy in electronic format, to Ministry of Agriculture (MoA) for consideration at the level of Secretary in the Ministry of Agriculture & FW. The Annual Action Plan (AAP) shall essentially be a part of Krishonnati Yojana (KY) Annual Action Plan and should ensure necessary convergence with other schemes of GoI. All issues relating to horticultural/Bamboo development, covering production, post harvest management and marketing will be covered by SHMs/SBDAs. Formats for submission of Annual Action Plan to DA&FW are specified in **Annexure IV (a) & (b)**.

5.4 While finalizing the AAPs, due attention will be paid for earmarking specific targets for Scheduled Caste, Scheduled Tribe, women beneficiaries and beneficiaries of vibrant villages. As an inbuilt provision under MIDH scheme, higher rates of subsidy have been envisaged for taking up activities like creation of infrastructure for post-harvest management and marketing of horticulture produce along with area expansion by beneficiaries in the **North Eastern & Himalayan States, TSP areas, Vibrant villages, Hilly and Scheduled areas, Andaman & Nicobar and Lakshadweep Islands**.

5.5 In order to strengthen/promotion of Farmer Interest Groups (FIG), Farmer Producer Organizations (FPOs), Self Help Groups (SHGs) and Cooperatives, due attention has to be paid for allocation of targets to these groups while finalization of Annual Action Plan. These groups/organizations may also be eligible for availing assistance under various components of the scheme.

6. FUND FLOW MECHANISM

6.1 Flow of funds and the utilization by the Implementing Agencies / SHMs / SBDA/ NLAs / PRIs etc from Government of India and utilization of funds shall be governed by extant financial norms. Funds will be released to the Implementing Agencies i.e. State Governments, UTs, NLAs etc. under MIDH as per the extant financial rules and instructions issued by Ministry of Finance from time to time. Implementing Agencies will make arrangements for ensuring transfer of funds to beneficiaries through electronic transfer, preferably to their respective bank accounts through DBT. Flow chart for release of funds under MIDH is given below:



6.2 Implementing agencies would be required to undertake activities within the funds released by the GOI and corresponding State share in respect of NHM/HMNEH/NBM. The flow of funds has to be mapped on the MIDH SURAKSHA and the transfer of the funds should be in all time captured on MIDH SURAKSHA. No claims of pending liabilities relating to expenditure over and above released funds will be entertained by DA&FW.

7. MISSION INTERVENTIONS

7.1 The Mission will be demand and need based in each segment. Technology will play an important role in different interventions. Technologies such as Information Communication Technology (ICT), Remote Sensing and Geographic Information System will be widely used for planning and monitoring purposes including identification of sites for creating infrastructure facilities for post harvest management, markets and production forecasts.

7.2 The interventions envisaged for achieving desired goals would be varied and regionally differentiated with focus on potential crops to be developed in clusters by

deploying modern and hi-tech interventions, duly ensuring backward and forward linkages. Revised cost norms and pattern of assistance, as given in **Annexure-V to VIII**, will be adopted. Detailed guidelines in respect of NHB and CDB and, including modalities of approval of projects will be issued separately for effective implementation of these schemes.

Key Elements of MIDH	
• Base line survey • Involvement of PRI • Area based Annual and Perspective Plans • Applied Research with focus on Region (HMNEH) and crop Demand driven production based on cluster approach • Availability of quality seeds and planting material • Technology driven programmes to improve productivity and quality, e.g. ○ Introduction of improved varieties. ○ Rejuvenation with improved cultivars. ○ High Density Plantations. ○ Bee-keeping for crop pollination in horticulture Capacity building of farmers and personnel ○ Mechanization	
	• Post Harvest Management and cold chain • Marketing infrastructure development • Support to FIGs/FPCs/FPOs/SHGs and other farmer aggregates Self Help Groups (SHGs) Data base generation, compilation and analysis • Technical Support by NLAs

Production and Productivity Improvement

7.3 The Mission will focus primarily on increasing both production and productivity through adoption of improved and appropriate technologies for ensuring quality, including genetic upgradation of all horticultural crops and addressing challenges of climate change. Special emphasis will also be given for adoption of area based cluster approach towards developing regionally differentiated crops, which are agro-climatically most suitable for the State/region. creating backward linkages for farmer group/FPO/FPCs Availability of good quality planting material will receive focused attention. Efforts will also be made to establish and upgrade nurseries and TC Units. This will be supplemented through plantation development programmes through addition of new areas under improved varieties to meet market demand. ***Planting material of seed origin for fruit crops which can be vegetatively propagated will not qualify for subsidy assistance.***

7.4 Clean Plant Program: To boost the availability of quality planting material in the country and to become self-reliant in supply of disease free quality planting material a “Clean Plant Program” to be implemented with Asian Development Bank (ADB) funding support. The CPP scheme will develop Clean Plant Centres for commercially important Fruit Crops across the country in different agro-climatic zones. The Centers will produce, maintain and distribute pathogen-free Quality Planting Material of identified crops by applying therapeutics and State of Art technology. This will give a fillip to horticulture crops production by providing disease free planting material and protect ecosystem through proactive virus and disease control measures. The CPP initiative shall bring in Certification and Traceability in the planting material supply chain and make country self-sustainable in production and supply of Quality Planting Material of high value Horticulture plants. This will be a Central Sector Programme and will be implemented through NHB.

7.5 Horticulture Cluster Development Programme: To address the challenges and enhance the global competitiveness of the Indian horticulture sector, Horticulture Cluster Development Programme is to be implemented under MIDH wherein horticulture clusters have to be developed under MIDH scheme. HCDP also aim to develop large scale clusters for vegetable production closer to major consumption centers which will reduce price volatility and will ensure supply of vegetable throughout the year. This will be a Central Sector Programme and will be implemented through NHB. This programme is designed to leverage the geographical specialization of horticulture clusters and promote integrated and market-led development of 3 verticals:

- o pre-production and production,
- o post-harvest management and value addition
- o logistics, branding and marketing activities.

7.6 Production & Distribution of Planting Material (in project mode): Production and distribution of good quality seeds and planting material will receive top priority. States will have a network of nurseries for producing planting material, which were established through Central or State assistance. To meet the requirement of planting material (for bringing additional area under improved varieties of horticultural crops and for rejuvenation programme for old/senile plantations), assistance will be provided for setting up new large, small and plug type hi-tech nurseries under the Public as well as Private sector as per details in annexure V.

The support will mainly include the following components as per the requirement of the project:

- (i) Proper fencing.
- (ii) Scion / Mother block of improved varieties.
- (iii) Root stock block (Rhizome bank in case of bamboo).
- (iv) Irrigation facilities
- (v) Hi-tech green-house having insect proof netting on sides and fogging and misting systems (only for plug type hi-tech nursery).
- (vi) Hardening/maintenance in insect proof net house with light screening properties and sprinkler irrigation system.
- (vii) Pump house to provide sufficient irrigation to the plants and water storage tank to meet at least 2 days requirement.
- (viii) Soil solarization - steam sterilization system with boilers.

7.7 Nurseries will also be regulated under legislation in force relating to seeds and planting material. Efforts will be made to establish nurseries at production cluster itself.

7.8 Nurseries will be encouraged to go in for accreditation. Planting material for MIDH will be mandatorily procured only from NHB accredited nurseries. The AAP would have area expansion target only upto the level of availability of good quality planting material from accredited nurseries. SHM will also ensure that all nurseries set up under MIDH are accredited within period of twelve months through National Horticulture Board, Coconut Development Board (for coconut).

7.9 Nurseries in the Public and Private sector can avail assistance to upgrade nursery infrastructure to meet accreditation norms. Moreover, NHB will take up projects for setting up mother block and root stock nursery, as well as nursery accreditation with 100% assistance to public sector as per norms given in **Annexure VI**.

7.10 CDB will arrange production and distribution of quality planting material for coconut through Demonstration cum seed production forms, Regional Nurseries and Nucleus coconut seed form, as per norms given in **Annexure VII**.

7.11 The support to Bamboo nurseries will be provided as per norms at **Annexure-VIII**.

Tissue Culture Units:

7.12 New Tissue Culture (TC) units will be established and assistance will be provided for rehabilitation/ strengthening of existing TC Units. New TC units will produce 25lakh plants/year of the mandated crop for which protocols are available for commercial use. In the event of production of lesser number of plants, cost of lab will be reduced on a pro rata basis (subject to its viability). New TC unit projects for public sector will be sanctioned to only those agencies, which have required technical manpower. No recurring expenditure for the manpower and contingencies will be borne under MIDH. Each TC unit would get itself accredited as per standards and norms of Department of Bio Technology within eighteen months from the date of receiving funds failing which the assistance provided under the scheme, will have to be returned.

Vegetable Seed Production

7.13 Production of 'disease-free vegetable seedlings' will be encouraged for hybrid cultivars. Wherever necessary, 'plug technology' and environment control for germination, growth and hardening of vegetable seedlings may be introduced. The infrastructure facilities will include a green house with maximum area of 10,000 sq. meter, including hardening facilities, designed for tropical conditions, with insect netting on sides and rolling poly sheets. The plants will be propagated in plastic trays having small plugs of varying sizes for different crops. Sprinkler irrigation system will be installed. The infrastructure for media sterilization i.e. steam boiler, holding bins, etc will also be provided. The nurseries will ensure keeping the plug type seedling trays on benches and not the ground to avoid disease and root damage.

Import of Planting Material

7.14 With a view to procuring best quality planting material of latest varieties of horticultural crops, a component of providing assistance for meeting cost of planting material imported from abroad has been included. Import will only be allowed if we have appropriate PEQ facility developed and maintained.

7.15 PEQ facility- In order to improve prosperity of horticulture growers by increasing the productivity of orchards through supply of genuine and quality planting material, Post Entry Quarantine (PEQ) facilities may be created for high value imported horticulture crops. This will help in increasing the horticulture production

and productivity. These facilities will be created by ICAR Institutes with MIDH funding.

7.16 The State Horticulture Mission/State Bamboo Development Agency will ensure timely availability of good quality seeds and planting material to farmers.

IMPORTANT POINTS WITH REGARD TO PLANTING MATERIAL

- i. Make a variety wise assessment of requirement and availability.
- ii. Nurseries to have mother blocks and required infrastructure.
- iii. Planting material should be checked and certified for its quality.
- iv. Disease-free material supplied to farmers through accredited nurseries.
- v. Nurseries established under MIDH should be accredited mandatorily within one year through NHB.
- vi. Use planting material of seedling origin for perennial fruit crops is not supported.
- vii. Planting material over long distances is not encouraged.

Seed Infrastructure

7.17 To facilitate proper handling, storage and packaging of seeds, assistance will be provided for creating infrastructure like drying platforms, storage bins, packaging unit and related equipments.

Establishment of New Gardens

7.18 The Mission envisages coverage of area under improved varieties of horticultural crops. Norms for area expansion of fruits, vegetables, plantation crops and other crops including flowers, spices and aromatic plants are also given in **Annexure-V**. Area expansion will be done in conjunction with Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) under which cost on labour component of work such as digging, fencing etc could be met with. Details of assistance for bringing new areas by NBM, CDB scheme are given in **Annexure-VI** and **Annexure VIII** respectively. NHB will take up commercial horticulture development in open field condition on project mode as per norms given in **Annexure VII**. Cost of raising new plantations will, however, vary from crop to crop which will be taken into consideration while providing assistance to the beneficiary.

IMPORTANT POINTS WITH REGARD TO NEW GARDENS

- i. Focus on high yielding varieties for productivity enhancement.
- ii. Planting material to be sourced from NHB accredited nurseries.
- iii. New areas to be taken up in identified clusters of mandated crop.
- iv. Micro Irrigation to be integrated for better survival.
- v. Use of hydrogel to reduce moisture stress and improve productivity.
- vi. Payment to be released to the beneficiary as per norms prescribed.

Mushroom Production

7.19 In case of mushroom, assistance will be provided for setting up of individual mushroom production, spawn production and compost making units, as per the details given in **Annexure V. Details of small scale mushroom production unit are also available in Annexure V.**

Rejuvenation / Replacement of senile plantations / canopy management

7.20 Rejuvenation programme will address orchards and plantations which have low productivity. It will be implemented through individual farmers, farmers' cooperatives, Self-Help Groups, and commodity organizations. Assistance will be available only in respect of rejuvenating/replanting senile and unproductive plantations through proven technologies. However, assistance will depend on the nature and requirement of particular crop. Canopy management will address maintenance of tree architecture as a means for productivity enhancement, particularly for fruit crops and high density plantations. In case of seedling origin, uneconomical orchards will be considered for replanting with improved varieties.

7.21 In the case of bamboo, improvement of existing stock in non-forest areas will be taken up as per norms given in **Annexure VIII.**

7.22 Similarly, in the case of coconut, replanting and rejuvenation of old coconut gardens will be taken up as per norms given in **Annexure VII.**

Creation of Water Sources

7.23 Under the Mission, assistance will be provided for creating water sources through construction of community tanks, farm ponds/reservoirs with plastic / RCC lining to ensure life saving irrigation to horticulture crops (**Annexure V and Annexure VI**). This will be in conjunction with MNREGS and wherever possible adequate convergence should be ensured. These water bodies may be linked with Micro Irrigation facility for judicious use of water. Maintenance of the water source will be the responsibility of the community.

7.24 Assistance would also be provided for creating water source through construction of farm ponds/tube wells / dug wells for individuals. For smaller size of

the ponds/ tube wells / dug wells, cost will be admissible on pro rata basis depending upon the command area. This will also be in conjunction with MGNREGS. However, for non MGNREGS beneficiaries, assistance will be provided including the cost of plastic / RCC lining. Lining material should conform to BIS standards. Maintenance of the asset will be the responsibility of beneficiary.

Protected Cultivation

7.25 Activities like construction of green houses, shade net house, plastic mulching, rain shelters, plastic tunnels and anti bird/ hail nets would be promoted under the Mission **(Annexure V)**. Provision has been made for selecting a variety of construction material for green houses and shade net houses. The cost is inclusive of irrigation systems. Preference will be given to use locally available material to minimize cost of construction of such structures. However, for availing/ subsidy assistance, all material/ technologies should conform to BIS standards. New components like Hydroponics and Aeroponics, Soil Replacement, Sensor Based Automation System for fertigation, Solar Fencing, Weed Mat, etc will also be promoted and under the Mission (Annexure V).

Precision Farming Development and Extension through PFDCs

7.26 Existing Precision Farming Development Centres (PFDC) will be involved to develop regionally differentiated technologies for their validation and dissemination. PFDCs are anchored in SAUs, ICAR Institutes and IIT, Kharagpur. On account of their experience in conducting applied research on precision application, they have expertise in terms of manpower and equipment. PFDCs will be equipped with necessary hardware and software needed for generating information on precision farming techniques on the farmers' field. The ultimate goal is to provide requisite information to farmers so that they are in a position to apply necessary inputs. Other organisations like ICAR Institutes and Institutes in Private sector will also be involved in technology development. For this purpose, financial assistance would be provided to PFDCs from MIDH on project basis through the SHM. The proposal of PFDCs will be approved after the technical vetting by Horticulture Division. PFDCs will take up the activities such as trials, demonstrations for precision farming technologies like hydroponics and aeroponics for horticulture crops, survey to ascertain field adoption of the technology, training of farmers/officials, display centre, publicity etc. PFDCs will also develop appropriate model costs in consultation with Horticulture

Commissioner by conducting work study in different geographical locations and submit them to the Ministry for adoption.

Promotion of Integrated Nutrient Management (INM) and Integrated Pest Management (IPM)

7.27 Assistance for Integrated Nutrient Management (INM) and Integrated Pest Management (IPM) measures will be provided for horticultural crops as well as bamboo, as indicated in **Annexure-V** and **Annexure-VI** respectively. Assistance will also be available for developing facilities like Plant Health Clinics both under Public and Private sector.

7.28 Under INM component, subsidy can be availed for use of liquid bio fertilizers of N, P and K such as Rhizobium/Azospirillum/Azotobactor, Phosphate Solubilising Bacteria (PSB) and Potash Mobilizing Bacteria (KMB), to be applied in combination, in demonstration and other programmes.

Organic Farming

7.29 Organic farming in horticulture will be promoted to harness environmental and economic benefits by way of adoption of organic farming techniques along with its certification.

7.30 For adopting organic farming for perennial and non perennial fruit crops, vegetables, aromatic plants, spices etc., additional assistance will be given as per PKVY norms over and above the area expansion programme for a maximum area of 4 ha per beneficiary, spread over a period of three years. For organic cultivation of vegetables, assistance will also be given as per PKVY norms. Assistance will be used for generating on-farm inputs. Specification and design parameters of Agro Textiles - HDPE woven beds for vermiculture will conform to BIS standards (IS 15907:2010). Organic certification will be guided by service providers and certification agencies accredited by authorized agencies (APEDA/NCONF).

IMPORTANT POINTS WITH REGARD TO ORGANIC FARMING

- i. Only take up such crops which command a premium.
- ii. Ensure market linkages for the organic produce
- iii. Organic certification by accredited agencies to be ensured.
- iv. Don't take up organic farming in isolated patches.

Good Agriculture Practices (GAP)/Bharat GAP

7.31 GAP certification has been introduced to encourage farmers to adopt good agricultural practices in line with global GAP, so that farmers are able to get better price for their produce in domestic as well as international market. Certification agencies to be involved for this will be as per list approved by authorized agencies (APEDA/NCONF).

7.32 In addition, a simplified system of GAP certification system focusing on product quality, produce safety, food safety and hygiene, workers safety and traceability has been identified in this Department and accordingly, Department of Agriculture and Farmers Welfare (DA&FW) has launched Bharat GAP Certification System with National Horticulture Board (NHB) as the nodal Implementing Agency. States may encourage farmers to adopt the newly launched program.

Centre of Excellence for Horticulture

7.33 Centres of Excellence may be established for different horticultural produces which will serve as demonstration and training centres as well as source of elite planting material and vegetable seedlings under protected cultivation.

Human Resource Development (HRD) in Horticulture

7.34 Under HRD programme, training of farmers, entrepreneurs, field level workers and officers will be taken up. Programme for providing appropriate training to farmers for adoption of high yielding varieties of crops and farming system will be taken up at State level and outside the State. Programme for training of officials concerned with implementation field level workers who will in turn train/guide farmers will also be taken up (**Annexure V & Annexure VI**).

7.35 Assistance for organizing training courses for Supervisors, Entrepreneurs, Gardeners and Field Functionaries will be continued during XV Finance Commission Period.

7.36 Training programme for Supervisors, Gardeners and Agri/Horti Entrepreneurs will be available as per approved courses of Training Institutes/Agriculture Skill Council of India (ASCI) for Horticulture Sector. The Training programmes will be organised through ASCI or Training Institutes like selected State Agricultural Universities (SAU),

ICAR Institutes, Deemed Universities/Private Universities recognized by UGC having faculty in horticulture, Krishi Vigyan Kendras. Departmental staff will be trained under various ongoing training programmes. Training expenses will be met by the State Horticulture Mission.

7.37 Minimum qualification for Supervisory & Agri/Horti Entrepreneurs training programme would be Higher Secondary and for Gardeners it would be Class-VIII (Middle) standard.

7.38 Institutions identified for training should have minimum infrastructure facilities including class rooms, staff, hostel facilities etc.

7.39 The courses will be of one year duration for Supervisors and of six months for Gardeners and of three months for Entrepreneurs. In order to attract the candidates and more importantly retain them and prevent their drop out, a monthly stipend will be provided in form of boarding & lodging charges. These courses will be residential. At the end of the training, Supervisors will be awarded a Diploma in horticulture, while Gardeners and Entrepreneurs will be awarded a Certificate of training in horticulture. At least 25 Supervisors, 50 Gardeners and 25 Entrepreneurs will be trained in each participating institution annually.

7.40 In case States wish to organize specialized training courses on horticulture related subjects, assistance will be provided for the same to concerned Institutes directly, based on recommendation of concerned State (s). Such training would generally be of short duration of 7 - 10 days for 20 to 25 participants.

7.41 Trainers, who are required to train others, can be deputed abroad for training, for which assistance would be made available for meeting the travel cost and course fee. Concerned State Departments of Horticulture/Agriculture/SHM function as nodal agency for this purpose. Funds will be made available to SHMs for meeting expenses of candidates involved in implementation of Mission programmes based on their specific proposal. The cost norms of HRD programmes are applicable as per Annexure V.

Pollination Support through Bee-keeping

In order to maximize agricultural production, honey-bee can be used as an important input. The responsibility of coordinating the bee-keeping development programme in

State will be vested in the identified State Designated Agency (SDA) or any institution/society having capability.

7.43 Assistance will be available for activities on development of nucleus stock of honey bees, bee breeding, distribution of honey bee colonies hives and bee keeping equipments (**Annexure V**).

Horticulture Mechanization

7.44 Horticulture mechanization is aimed to improve farm efficiency and reduce drudgery of farm work force. Assistance in this regard will be provided for activities such as procurement of power operated machines & tools, besides import of new machines (**Annexure V**). Assistance for horticulture mechanization will also be available to such , farmer groups, Self Help Groups, women farmer groups having at least 10 members, who are engaged in cultivation of horticultural crops provided balance 60% of the cost of machines and tools is borne by such groups. SHM will enter in to MoU with such association/groups to ensure proper upkeep, running and maintenance of the machines and tools.

Technology Dissemination through demonstrations/ Front line demonstration

7.45 Latest technologies will be promoted on crop specific cultivation, use of IPM/INM, protected cultivation, organic farming through farmer participatory demonstration in a compact area of one ha, which will be organized at strategic locations in farmer's field for which assistance will be limited to 75% of cost. For green house cultivation, area will be limited to 500 sq. meter. Farms in public sector, ICAR, SAUs, Deemed Universities having faculty in horticulture, could be sites for Front Line Demonstrations, for which 100% assistance will be provided, and maximum assistance will not exceed Rs. 25 lakh per project.

7.46 Demonstration on bamboo will be taken up as per norms indicated in **Annexure VIII** and on coconut as per norms given in **Annexure VII**.

Integrated Post Harvest Management

7.47 Under post-harvest management, including that for Medicinal plants, activities like handling, grading, pre-conditioning, packaging, transient storage, transportation, distribution, curing and ripening and where possible long term storage can be taken

up. Existing schemes of the Directorate of Marketing and Inspection (DMI), National Cooperative Development Corporation (NCDC), Deptt. of AYUSH and MoFPI will be leveraged to the extent possible. MIDH would include projects relating to establishment of pre-cooling units, 'on-farm' pack houses, mobile pre-cooling units, staging cold rooms, cold storage units with and without controlled atmosphere capability, integrated cold chain system, supply of refrigerated vans, refrigerated containers, primary/mobile processing units, ripening chambers, , preservation units, onion storage units, Small scale single product grading and packing line, Solar Crop Dryer cum Space Heating System and Integrated Supply Chain Project. These projects will be entrepreneur driven and provided credit linked back-ended subsidy. PSUs/Government agencies/ Cooperatives// Farmers' groups/ FPOs/SHGs/ etc. recognized/registered by the DMCs, having at least 25 members, will also be entitled to avail assistance for such activities. They may avail back ended subsidy without credit link, subject to condition that they are able to meet their share of the project cost.

Cold Chain Infrastructure

7.48 Assistance for setting up of new cold storage infrastructure will be available only to multiple chamber cold storage units with technologies which are energy efficient and approved by Govt. of India. The infrastructure may comprise of the components like insulation 60 mm to 200 mm with other requisite components like insulated panels, floor insulation, insulated doors and Cooling System and Refrigeration Technology / Firefighting/ Electrical/building automation. Cold storage with PUF panel insulation will be given preference.

Cold storages (Long term storage and distribution hubs) up to 5000 MT capacity will be promoted under NHM/HMNEH sub schemes (Annexure V), capacity above 5000 MT up to 10000 MT will be promoted under NHB sub scheme. (Annexure VII). In this context for cold storages- both for positive temperature application (Above 0° C) and Negative temperature application (below 0° C), 3.4 cubic meter (CUM) or 120 cubic feet (CFT) of chamber volume shall be equivalent to one MT of storage capacity. Similarly for ripening chambers 11 Cum of chamber space shall be equivalent to one MT of storage capacity for ripening chambers and 4.5Cum of space would be equivalent to one MT of storage capacity for Apple storage for Refrigerated transport, 3Cum (106 Ft) of chamber volume shall be equivalent to one MT of Storage

capacity. Assistance of Pre-cooling will be linked to pack house and cold room staging. Frozen Chambers (short term and long term), 3.4 cubic meter (CUM) or 120 cubic feet (CFT) of chamber volume shall be equivalent to one MT of storage capacity, (Range -15deg c to -45 deg c). (Detailed technical specifications of all Cold Storage components are available in NCCD Guidelines).

New technologies need to be promoted under MIDH like energy efficient cooling systems and environment friendly refrigerants with inverter technology for walk in standalone cold rooms, Freezers, pack house cold rooms, pre-coolers, blast coolers and blast freezers etc and advanced cooling system for bigger cold storages with high efficiency evaporators, unit coolers, Electronic expansion valves, Humidity Sensors, Controllers and Display unit , Temperature Sensors, controllers, and Display, Dry firefighting equipment like cylinders and water based Fire Hydrant systems as per regulations, Datta logging and Automation through Microprocessors for efficient BMS, Solar Panels, DG set, transformers, Electrical – Electronic panels for distribution of electricity to refrigeration units, pumps, condenser fans, cooling towers, etc fitted and controlled through microprocessors and HMIs for automation, data monitoring, energy efficiency, ease of serviceability and efficient operations along with DG set panel, Power factor panel, all types of Controls and safety equipment's necessary for refrigeration control system, Fire retardant Electrical Cables for all connections, systematic use of cable trays, emergency lighting, hooters and emergency alarms, Earthing and Lightning arrestors, fire escapes.

7.49 Extant specifications standards and protocols on cold storage and cold-chain components will be adhered to while approving cold storage projects. Revisions to technical standards and adherence protocols shall be updated by National Centre for Cold-chain Development (NCCD) as necessary when improved technologies and efficiencies are introduced/understood/approved.

7.50 Assistance can also be availed for a combination of PHM infrastructure components by a beneficiary, within the prescribed norms of individual items. Assistance will be available to individuals, Group of farmers//consumers, Partnership/ Proprietary firms, Self Help Groups (SHGs), Farmers Producer Organization (FPOs), Companies, Corporations, Cooperatives, Cooperative Marketing Federations, Local bodies, Agricultural Produce Market Committees (APMC) & Marketing Boards and State Governments.

7.51 Assistance will also be available for taking up cold chain components so as to integrate the activities into a single project, as a new component during 15th FC period.

7.52 In the case of bamboo, PHM will also include post-harvest storage and treatment facilities for bamboo, as per norms given in **Annexure VIII**.

7.53 Proposals on long distance transport solutions on project basis shall be supported under NHB sub-scheme.

Creation of Market Infrastructure

7.54 Main objectives of providing assistance under this component is to ensure availability of Retail markets/Outlets for horticulture commodities;

7.55 Assistance under the Scheme will be provided as credit linked back ended subsidy for setting up retail markets/outlets. Assistance will also be provided for setting up static / mobile vending cart/ platform with cool chamber.

7.56 Assistance will be available to individuals, Group of farmers//consumers, Partnership/ Proprietary firms, Self Help Groups (SHGs), Farmers Producer Organization (FPOs), Companies, Corporations, Cooperatives, Cooperative Marketing Federations, Local bodies, Agricultural Produce Market Committees (APMC) & Marketing Boards and State Governments.

7.57 In the case of bamboo, assistance will be extended for setting up Bamboo Bazaars, Bamboo wholesale retail markets near villages and retail outlets as per norms indicated in **Annexure VIII**.

Processing & Value Addition

7.58 Processing of horticultural produce and value addition is an important activity. Therefore, primary / minimal processing units and Food processing units will be promoted under sub schemes of MIDH as per norms indicated in **Annexure V**.

Product promotion and Market Development

7.59 The NHB will take up projects on product promotion and market development for horticulture crops. CDB will take up similar services for coconut.

Insurance schemes on coconut

7.60 The CDB will implement scheme of Kera Suraksha Insurance for the benefit of Coconut growers, as per norms given in Annexure VIII, till the time it is included in the regular Insurance scheme of the Ministry.

8. MISSION MANAGEMENT

Support to State Horticulture Mission/Implementing Agencies

8.1 For managing various activities of Mission at State & District Mission offices and implementing agencies for administrative expenses, Consultants at State & District level, project preparation, computerization, contingency etc. 2.5% of total annual expenditure will be provided to State Horticulture Missions/Implementing Agencies. State/Implementing Agencies will make provision for this in their Annual Action Plan.

8.2 Separate provision will be available for awareness generation and promotional programmes on horticulture, as per prescribed norms.

Institutional Strengthening

8.3 Mission Head Quarter at National & State level and that of NHB and CDB will be strengthened for database creation and collection, use of Information Technology, development of software and procurement of hardware, hiring of vehicle etc, for which funding will be made under TSG component of the Mission.

Horticulture Database

8.4 Provision has been made for strengthening horticulture statistical database, which will be implemented through active involvement of SHMs, Directorate of Horticulture and Institutes like Indian Agricultural Statistical Research Institute (IASRI) etc. on a project mode. Institutions like IASRI will be engaged as NLA for undertaking specific project on horticulture statistics. Horticulture Statistics division of DA&FW will be the nodal agency to lead and coordinate this activity.

Support to National Level Organizations for Infrastructure Development

8.5 The MIDH, within the ambit of sub missions, shall provide funds to National level organizations including cooperatives and FPOs for taking up innovative projects in the area of horticulture development, post-harvest management, processing and

marketing depending upon the soundness of its financial position and previous experience. Funding will be provided under the relevant components of the Mission.

Collaboration with International Agencies

8.6 Attempts will be made to collaborate with international agencies like FAO, World Bank, Asian Development Bank, JICA etc. and countries which have a developed modern horticulture sector for taking up programmes for development of horticulture. FAO has a Unilateral Trust Fund (UTF) programme under which there is provision to operate projects on mutually agreed terms and conditions. Under collaborative programme, activities to be undertaken would include import of planting material, cold chain, hiring of International Domain Experts, organize study tours and training programmes under aegis of MIDH. Funds for this purpose will be earmarked in Annual Budget of Department of Agriculture & FW, Ministry of Agriculture & FW, Government of India under TSG component of the Mission. However, for implementing project under bi-lateral agreement or multi-lateral agency undertaking, programme funds shall be utilized.

Evaluation & Other Studies

8.7 Monitoring Missions, comprising of experts will be sent to States from time to time by National Mission, which will be organized through the TSG. States will also conduct evaluation studies on project basis under State level TSG component. Mid Term and end evaluation will be conducted at the middle and end of the plan period. Concurrent evaluation will also be carried out by engaging suitable agencies in consultation with State agencies. Assistance for such studies will be on project basis. The MIDH will commission short term studies on various aspects of horticulture depending on need and emerging requirements. Such studies will also be on project basis.

9. ROLE OF NATIONAL LEVEL AGENCIES:

Under MIDH, assistance is also provided to National Level Agencies (NLAs) which are responsible for implementation of innovative projects in the field of horticulture development which includes use of advance technologies like micro irrigation, precision farming and hi-tech horticulture etc. List of NLAs alongwith details of their expertise is at **Annexure IX**.

10. NEW PROVISIONS:

- i) MIDH will be implemented in all districts in the country.
- ii) Credit linkage for projects upto Rs. 30 lakhs may be optional and subsidy would be released in two instalments in TRA/Escrow/SRF accounts based on progress after the Joint inspection report when found satisfactory.
- iii) Under the existing component of "Plantation Infrastructure Development" including Protected Cultivation, High Tech Plug Type nurseries under controlled conditions will be promoted with a focus on easy availability of quality planting material especially in vegetable crops.
- iv) Under the existing component of "Import of Planting Material", establishment of mother block and PEQ facilities will be supported and private sector participation will be allowed to augment availability of quality planting material in the country but emphasis will be on developing techniques of Tissue Culture (TC) in crop in order to substitute imports of planting material.
- v) In order to encourage private players for importing elite planting material, royalty will also be provided to private importers for importing planting material which will be finalized by the committee under the Chairmanship of Joint Secretary (Horticulture) and comprising of other members i.e. ADG (Horticulture) ICAR, representative from PPVFRA, representative from Seed division and Horticulture Commissioner (Member Secretary).
- vi) The additional crops of commercial importance like Kamalam (Dragon fruit), Datepalm, Avocado, Blueberry, Blackberry, Rambutan, Persimmon, Durian, Mangosteen, Phalsa, Tamarind, Jamun, Bael, Karonda, Jackfruit, Khirni, Seabuckthorn, Garcinia, Hanuman phal (Soursop), Carobmola, Jackfruit, Makhana, Lac hosting plants, Water Chestnut (Singara), Onion, Garlic and hybrid vegetables and important identified medicinal crops (as mentioned in Annexure V) etc. will also be supported. New crops may be added with the approval of Hon'ble Minister for Agriculture and Farmers' Welfare, as and when required.
- vii) Keeping in view the development of modern technologies, Ultra Hi-density plantations of specific crops with support structure like trellis, support structure for anti hail net/ anti bird net, fruit covers, soil less cultivation including Hydroponics and Aeroponics, use of eco friendly agro-textile products for mulching, weed mats etc, flexi water storage tanks for North

Eastern and Himalayan States, construction of tube well/ bore well and sensor based automation system for fertigation will be supported.

- viii) Under the component of “Integrated Post Harvest Management”, integrated supply chain projects will be supported by integration of approved components and expand the scope of integrated pack houses by including components like automatic grading line, cold room and material handling equipments etc for reduction in post-harvest losses and plug the gaps in supply chain.
- ix) Use of solar based technologies like solar panel for drip irrigation and circulation fans under protected cultivation, solar fencing, solar power cold storage, solar crops dryers etc will be supported.
- x) With a view to achieve economies of scale and focus on export promotion and import substitution, Cluster based Development of Horticulture for high value horticulture crops in identified clusters will be supported.
- xi) For substitution of import of high value crops, large scale cultivation of Apple, Almond, Walnut and Cashew in the project mode with a cap on maximum amount of subsidy per project will be supported.
- xii) Promotion of kitchen gardening and low-cost, small-scale mushroom production units to promote start ups and women entrepreneurship.
- xiii) Promotion of small horticulture clusters with integrated approach.
- xiv) Focus on productivity enhancement through “Horticulture based Integrated Farming Systems” by demonstration of modern technologies and good agricultural practices.
- xv) Extension of approved components like accreditation and rating of nurseries, creation of water sources, farm mechanization and adoption & certification of organic farming etc. to the Sub scheme of Coconut Development Board.
- xvi) Components have been included in the NBM such as Establishment of Tissue Culture Nurseries & upgradation of exiting TC nurseries, Raising saplings in existing Government TC/ non TC nurseries, Stock improvement in existing bamboo plantation, Charcoal making units, Beauty & wellness products, moulded products, scaling up of emerging technologies, upgradation of existing small/medium/large units, Bamboo construction, Transport subsidy and Establishment of Centre of Excellence.
- xvii) Beneficiaries of Vibrant Villages and Patta Land Holders will be covered under MIDH scheme.

ANNEXURE I**Activity mapping for effective devolution of funds, functions and functionaries under Mission for Integrated Development of Horticulture (MIDH)****A. MIDH Funds**

S. No.	Scheme sub-component/ funding stream	Allocation (Rs. Cr.)	Percent Allocation based on function(s)						Remarks
			Centre	State	Local government			User group/civil society	
					District Panchayat	Intermediate Panchayat	Village Panchayat		
1.	NHM	As per annual budget	60	40	0.50-1.00		0.50-1.00		For community tanks, capacity building through HRD,
2.	HMNEH		90	10					
3.	NBM		60	40					
			90*	10*					
4.	NHB		100						Since projects will be implemented by the beneficiaries directly without routing funds through State Government, participation of local government will be to a limited extent in respect of these 3 sub schemes.
5.	CDB		100						
6.	CIH		100						

*In case of NE & Himalayan States.

B. MIDH FUNCTIONS

S. No	ACTIVITY DESCRIPTION	Union Government	State Government	District Planning Committee	LOCAL GOVERNMENT AND PLANNING BODIES			User Groups. SHGs. etc.
	Activity Category				Panchayati Raj System			
					District Panchayat	Intermediate Panchayat	Village Panchayat	
1.	Setting Standards	Formulate guidelines and cost norms for implementation of MIDH scheme	Disseminate guidelines and norms at District level, preferably in local language	Disseminate guidelines of MIDH.	Disseminate guidelines at block level and below.			
2.	Planning	Provide framework for preparing State Horticulture Mission Document (SHMD) and Annual Action Plan.	1. Prepare strategic plan. 2. Prepare State Horticulture Mission Document. 3. Prepare State Annual Action Plans (AAP)	Formulate District Horticulture Mission Document (DHMD) and District Annual Action Plan (DAAP) Contribute in preparing DHMD and DAAP.	Contribute in (in selection of crop and activities) preparing DHMD and DAAP.		Contribute in selection of crop and activities	
3.	Implementation of sub schemes and components. Planting material, production & productivity improvement programmers, HRD, infrastructure for PHM and Marketing etc.	Release of funds to States/Agencies by DAFW.	Release of funds to District level and State level implementing Agencies.	Prioritize projects as per requirement of district	Select location of activity within the district, select beneficiaries, implement specific projects		Contribute in selection of beneficiaries and implement specific projects, as allocated	Maintain assets created
4.	Monitoring & Evaluation of Projects	1. Review monthly progress through web enabled progress monitoring system. 2. Conduct midterm end Impact Evaluation	1. Furnish monthly progress through web. 2. Conduct concurrent evaluation		1. Review progress at panchayat level on specific activities. 2. Provide feed-back to State Government.		Provide feed back on progress to District Panchayat	

C. MIDH FUNCTIONARIES

S. No.	Union Government	State Government	District Planning Committee	LOCAL GOVERNMENT & PLANNING BODIES		
				Panchayati Raj System		
				District Panchayat	Intermediate Panchayat	Village Panchayat
1.	Horticulture Division Staff, DA&FW	Staff of : a) State Horticulture Department, b) State Horticulture Mission c) State Implementing Agencies d) Contractual staff	As constituted by the State Government	State Govt. to devolve functionaries as per activities to be implemented under MIDH.		State Govt. to devolve functionaries as per activities to be implemented under MIDH.

Annexure-II

Indicative composition of TSG under MIDH at National Level, State Level and District Level for 2021-22 to 2025-26

National Level			
S. No.	Items	Total	Honorarium (in Rs.)
1.	Chief Consultant	5	1,20,000/-
2.	Consultant	8	80,000/- or Rs. 3000 per day need based.
3.	Resource Person	6	50,000/-
4.	Senior Programmer	6	65,000/-
5.	Data Entry Operator#	20	As per prevalent Government norms
6.	MTS#	15	As per prevalent Government norms
State Level			
S. No.	Items	Total	Honorarium (in Rs.)
1.	State Horticulture Consultant	As per requirement of the State and to be met from TSG at State Level within overall ceiling of Rs. 50.00 Lakhs.	80,000/-
2.	Horticulture Assistant		40,000/-
3.	Programmer		50,000/-
4.	Data Entry Operator\$		As per prevalent Government norms
District Level			
S. No.	Items	Total	Honorarium (in Rs.)
1.	District Horticulture Consultant	As per requirement of the State and to be met from TSG at State Level within overall ceiling of Rs. 50.00 Lakhs per annum.	40,000/-
2.	Field Consultant		30,000/-

Should not be less than Minimum wages as notified by Delhi Government /Labour Department/State Government

\$ Should not be less than Minimum wages as notified by Labour Department of State Government

ANNEXURE-III**DELEGATION OF POWERS FOR APPROVING PROJECTS UNDER MIDH
SCHEME****(Sub-Schemes of NHM, HMNEH, NBM and CIH) #****A. By Executive Committee (EC)**

S. No	Component/Category of Items	Total Project Cost (Rupees in lakh)
1.	Marketing Infrastructure	Above 1500.00
2.	Special Interventions	Above 100.00
3.	Mission Management / TSG Data base, Survey, FPO	Above 300.00
4.	Other Components not covered above	Project Based

B. By Empowered Monitoring Committee (EMC)

S. No	Component/Category of Items	Total Project Cost (Rupees in lakh)
1.	Planting material Infrastructure (Hi-tech Nursery, TC Unit, Seed Infrastructure, import of planting material)	Above 25.00 up to 250.00*
2.	Organic farming, Certification & GAP	Above 200.00
3.	INM/IPM Infrastructure	Above 500.00**
4.	Post Harvest Management infrastructure, including Cold Chain Supply System, Processing, including projects related to reefer transport, ripening and add-on technology components.	Above 500.00**
5.	Marketing Infrastructure	Above 500.00 upto 1500.00
6.	Centre of Excellence	Up to 1000.00
7.	Special Interventions	Up to 100.00
8.	Need based projects (Seminars/ Workshops/ Exhibitions/ Training & Study Tours abroad, etc.)	Above 50.00 /project
9.	Mission Management/ TSG, Data base, survey, FPO	Up to 300.00 Subject to ratification by EC

C. By Mission Director (MIDH)

S. No	Component/Category of Items	Total Project Cost (Rupees in lakh)
1.	If costs are as per norms specified in Annexure V/ VI.	Up to 10.00

D. By State Level Sanctioning Committee (SLEC)

S. No	Component/Category of Items	Total Project Cost (Rupees in lakh)
1.	R & D Projects	Up to 100.00
2.	Planting material Infrastructure (Hi-tech Nursery, TC Unit, Seed Infrastructure)	Up to 25.00
3.	Mushroom	Up to 20.00
4.	Protected cultivation	Up to 70.00
5.	Organic farming, Certification & GAP	Up to 200.00
6.	INM/IPM Infrastructure	Up to 500.00
7.	Horticulture Mechanization	Up to 7.00
8.	HRD	Up to 20.00
9.	Demonstration	Up to 25.00
10.	Post Harvest Management infrastructure, including Cold Chain Supply System, Processing, excluding projects related to reefer transport, ripening and add-on technology components.	Up to 500.00
11.	Marketing	Up to 500.00
12.	Need based projects (Seminars/ Workshops/ Exhibitions)	Up to 50.00/project

E. By State Mission Director, SHM/ HMNEH/NBM

S. No	Component/Category of Items	Cost limit as per MIDH Scheme (Rupees in lakh)
1.	By State Mission Directors, if costs are as per MIDH norms.	Up to 5.00

#Note: Projects of NHB and CDB will be approved by the respective Committees of these Boards.

**Further, delegation of powers to be considered with the approval of GC.*

***The decisions of EMC on projects costing more than Rs. 500.00 lakh to be placed before EC of ratification.*

ANNEXURE-IV (a)**FORMAT FOR SUBMITTING ACTION PLAN FOR NHM / HMNEH SUB-SCHEMES UNDER MIDH**

Name of State:

Name of Sub-Scheme:

Year of Action Plan:

Summary Indicators:

Area, Production & Productivity (APP) (Year 200)*

Sl. No	Crop	Area (000 ha)	Production (000 MT)	Productivity (t/ha)
1.	Fruits (a) Name of Perennial fruits (i) (ii) (b) Name of Non perennial fruits (i) (ii)			
2.	Vegetable Crops Name (i) (ii)			
3.	Spices (a) Name of Seed Spices (i) (ii) (b) Name of Rhizomatic Spices (i) (ii) (c) Name of Tree Spices (i)			
4.	Flowers (i) Loose flowers (ii) Bulbous flowers (iii) Cut flowers			
5.	Aromatic Plants Name (i) (ii)			
6.	Medicinal Plant (i) (ii)			
7.	Plantation crops Name (i) (ii) Mushroom			
	Total			

(*This should be supported with the APP data for each district in the State.)

Summary of Action Plan:**Financial***(Rs. in Lakh)*

Sl.No	Activity	Balance as on 01.04.200	Outlay as per action plan	Percentage of total
1.	Research & Development*			
2.	New Nurseries (No)			
3.	Additional coverage of area to be given crop wise (ha)			
4.	Rejuvenation (ha)			
5.	INM/IPM (ha)			
6.	Protected cultivation (ha)			
7.	Organic farming (ha)			
8.	Water sources (no)			
9.	Horticulture Mechanization (No)			
10.	Training of farmers (no)			
11.	PHM Infrastructures (no)			
12.	New Markets (no)			
13.	New Processing units (no)			
14.	Monitoring/TSG			
	Total			

confined to Applied Research*Physical: (quantifiable major outputs) for the year:**

Sl. No	Activity	Ha. / No.	Sl. No		Ha. /No.
1.	R&D projects		8.	Water sources (no)	
2.	New Nurseries (No)		9.	Horticulture Mechanization (No)	
3.	Additional coverage of area to be given crop wise (ha)		10.	Training of farmers (no)	
4.	Rejuvenation (ha)		11.	PHM Infrastructures (no)	
5.	INM/IPM (ha)		12.	New Markets (no)	
6.	Protected cultivation (ha)		13.	New Processing units (no)	
7.	Organic farming (ha)				
	Total			Total	

Annexure-IV (a) (contd.)**Format for submitting Detailed Action Plan
Description****1. Background Information**

- 1.1 Geography & Climate
- 1.2 Potential of Horticulture
- 1.3 Land Availability
- 1.4 Strength, Weakness, Opportunity and Challenges (SWOC) Analysis
- 1.5 Nursery subplan indicating requirement and availability of planting material with mechanism in place to ensure quality and accreditation

2. Project Details

- 2.1 Objectives, Strategy & Road Map
- 2.2 Implementation Agency with contact address, phone & email ID
- 2.3 Salient aspects of the Annual Action Plan
- 2.4 Plantation Development including Supporting Infrastructure
- 2.5 Research & Development
- 2.6 Post Harvest Infrastructure and Management
- 2.7 Production of Planting Material
- 2.8 Establishment of New Gardens / Area Expansion
 - 2.8.1 Fruits (Perennial)
 - (a) Without integration
 - (b) With integration
 - 2.8.2 Fruits (Non-Perennial)
 - (a) Without integration
 - (b) With integration
 - 2.8.3 Spices and Aromatic Plants
 - (a) Without integration
 - (b) With integration
 - 2.8.4 Flowers
 - (a) Without integration

(b) With integration

2.8.5 Plantation crops

(a) Without integration

(b) With integration

2.9 Rejuvenation/Replacement of Senile Plantation / Improvement & Existing stock

2.10 Protected Cultivation

2.11 Promotion of INM/IPM

2.12 Organic Farming with certification

2.13 Creation of water sources

2.14 HRD in Horticulture

2.15 Post Harvest Management Infrastructure

2.16 Marketing Infrastructure

3. Mission Management

3.1 Technical Support Group

3.2 Promotion of FPO

3.3 Base Line Survey

4. Annexures

- I. Map of State and Districts indicating potential belt and location of existing infrastructure facilities like nurseries, TC units, seed infrastructure, INM/IPM infrastructure, pack houses, pre-cooling units, ref. vans, ripening chambers, cold storage units, markets, processing units etc and location of proposed infrastructure to be created.
- II. District wise area, production and productivity for major horticulture crops from 2004-05 onwards.
- III. District wise breakup of physical programme with identified cluster and crops.
- IV. Technical backstopping with identified institutes/agency.

Note: Suggestive percentage of activities to be included in the AAP:

Sl. No.	Activity	Percentage of AAP
1	Nursery & Planting Material	5 to 10 %
2.	Area Expansion	15 to 20 %
3.	Protected Cultivation	15 to 20 %
4.	PHM	25 to 30 %

Annexure-IV(b)**FORMAT FOR SUBMITTING ANNUAL ACTION PLAN FOR NBM SCHEME**

STATE: _____

YEAR _____

Sl. No.	Components	Estimated cost	Targets Proposed	
			Phy	Fin (in Rs. Lakh)
1.	Hi-tech Nurseries in public sector (in nos.)			
2.	Hi-tech Nurseries in private sector (in nos.)			
3.	Small Nurseries in public sector (in nos.)			
4.	Small Nurseries in private sector (in nos.)			
5.	Rehabilitation of existing TC units in public sector (in nos.)			
6.	Rehabilitation of existing TC units in private sector (in nos.)			
7.	Plantation in forest areas/ public land (through JFMC/ Panchayati Raj Institutions/ SHGs, Women group etc.) (in ha.)			
8.	Plantation in non-forest areas (in ha.)			
9.	Maintenance for Plantation upto 2013-14 in forest area			
10.	Maintenance for Plantation upto 2013-14 in non-forest area			
11.	Maintenance for Plantation upto 2013-14 in non-forest Govt. land			
12.	Maintenance for Plantation w.e.f. 2014-15 in forest area/Public land			
	First Year 25%			
	Second Year 25%			
13.	Maintenance for Plantation w.e.f. 2015-16 in non-forest area			
	First Year 25%			
	Second Year 25%			
14.	Improvement of existing stock (in ha.)			
15.	Transfer Technology & HRD			
	(a) Training of farmers (in nos.)			
	(i) Within state			
	(ii) Outside state			

	(b) Training of field functionaries/ artisans (in nos.)			
	(i) Within state			
	(ii) Study tour to progressive states/ units (group of minimum 5 participants)			
	(d) Demonstration of Technology (in nos.)			
	(e) Workshop/Seminars/ Training at:			
	(i) International Level			
	(ii) National Level			
	(iii) State Level			
16.	Pest and Disease Management (in ha.)			
17	Creation of Water resources (in unit)			
	(i) Community tanks/on farm ponds/on farm water reservoirs with use of plastic/RCC lining			
	(ii) Water harvesting system for individuals- for storage of water in 20mx20mx3m ponds/wells @ Rs.100/- cum			
18.	Integrated Post Harvest Management			
	(i) Post harvest storage & treatment facilities for bamboo (in nos.)			
19.	Establishment of marketing Infrastructure			
	(i) Bamboo Wholesale and Retail Markets near villages (in nos.)			
	(ii) Bamboo Bazaars (in nos.)			
	(iii) Retail Outlets (Showroom) (in nos.)			
	(iv) Retail Outlets near villages (in nos.)			
	(v) Participation in Domestic Trade Fairs / Exhibition etc.			
20.	Innovative Interventions			
21.	Implementation Monitoring Mechanism			
	(i) Evaluation and Monitoring			
	(ii) Bamboo Technical Support Group			
	(iii) Coloured brochures and leaflets			
	(iv) Promotional campaigns through Electronic/ Audio-visual/ Media/ Newspapers			
	(v) Database generation & Management (Information, Web Based Database)			
	(vi) Baseline survey			
22.	Mission Management and administration costs			
	T O T A L			

Annexure-V

COST NROMS AND PATTERN OF ASSISTANCE UNDER MISSION FOR INTEGRATED DEVELOPMENT OF HORTICULTURE (MIDH) FOR NHM AND HMNEH SUB SCHEMES

Item	Cost Norms*	Pattern of Assistance#
A. Research	Rs.100.00 lakh/ project	Central Government Institutes under ICAR, CSIR, SAUs, National Level Govt. Agencies and other location specific Institutes will take up need based applied research & development works in the areas of (i) Seed & Planting material (ii) Technology standardization (iii) Technology acquisition and (iv) Imparting training and FLD, on project mode, with 100% assistance.
B. Plantation Infrastructure Development		
B.1 Production of Planting Material		
i. Large Nursery (1 to 2 ha)	Upto Rs. 30 lakhs/ Ha. Cost of large nursery on pro rata basis: 1 ha. - 30.00 lakh 2 ha. - 30.00 lakh x 2	Assistance @ 100% to public sector and @ 40% to private sector for an area from 1 to 2 ha. as project based activity, on pro-rata basis. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, the lower limit of area will be 0.5 ha. Each nursery will produce a minimum of 1,00,000 plants per hectare per year of mandated perennial fruit plants, tree spices, aromatic plants, plantation crops, perennial flowers etc. duly certified for its quality. Accreditation of each Hi Tech nursery will be mandatory within 18 months from the date of release of last instalment.
ii. Small Nursery (0.4 to 1 ha)	Rs. 20 lakhs/Ha.	Assistance @ 100% to public sector and @ 50% to private sector for an area from 0.4 to 1 ha. as a project based activity, on pro rata basis. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, the lower limit of area will be 0.4 ha.

Item	Cost Norms*	Pattern of Assistance#
		Each nursery will produce a minimum of 50,000 plants per ha of mandated perennial fruit plants, tree spices, aromatic plants, plantation crops, perennial flowers etc. per year, duly certified for its quality. Accreditation of each small nursery will be mandatory within 18 months from the date of release of last instalment.
iii. Upgrading nursery infrastructure to meet accreditation norms (upto 2 ha)	Need based upto a maximum of Rs. 4.00 lakh/ha	Assistance @ 100% to public sector and @ 50% to private sector for a nursery of an area upto 2 ha on pro-rata basis. The infrastructure facilities will include establishment of Hot bed sterilization of media, Working shed, Virus indexing facility (for citrus & apple), Hardening chamber/net house, Mist chamber, Establishment of Mother Block, Irrigation and Fertigation facility/unit. Accreditation of each upgraded nursery will be mandatory within 18 months from the date of release of last installment.
iv. Setting up new TC unit	Project based upto Rs 250 lakh per project for a capacity of 25 lakh plants or on pro-rata basis for minimum 10 lakh plants.	Assistance @ 100% to public sector and in case of private sector, credit linked back-ended assistance @ 40% as project based activity. Each TC unit will produce a minimum of 10 lakh plants/year or on pro rata basis for higher capacity upto 25 lakh plants/unit of mandated crops, duly hardened, for which protocols are available for commercial use. Accreditation of each TC lab will be mandatory within 18 months from the date of receipt of last instalment.
v. Hi-tech Plug Type Nursery under controlled conditions with automated tray seeder unit	Project based for an area from 0.2 to 1 ha. @ Rs. 1200 per Sq.mt. on pro rata basis.	Assistance @ 100% to public sector and in case of private sector, credit linked back-ended assistance @ 50% as project based activity. Each Plug type nursery will produce a minimum of 80000 plugs (4 cycles of 20,000 plugs each) of mandated crops per 100 sq.mt. per year.

Item	Cost Norms*	Pattern of Assistance#
vi. Seed Production for Vegetables and Spices		
a) Open pollinated crops (1 to 2 ha)	Rs 50,000 /ha.	Assistance @ 100% to public sector and in case of private sector assistance @ 35% in general areas and 50% in NE & Himalayan States, Scheduled areas, Andaman & Nicobar and Lakshadweep Islands for an area from 1 to 2 ha. on pro rata basis. However, in case of vibrant villages the lower limit of area will be from 0.5 ha. Output target of seed production for each crop will be fixed by the individual State for each beneficiary before releasing funds.
b) Hybrid Seeds (1 to 2 ha)	Rs. 1.80 lakh/ha	Assistance @ 100% to public sector and in case of private sector assistance @ 35% in general areas and 50% in NE & Himalayan States, Scheduled areas, Andaman & Nicobar and Lakshadweep Islands for an area from 1 to 2 ha. on pro rata basis. However, in case of vibrant villages the lower limit of area will be from 0.5 ha. Output target of seed production for each crop will be fixed by the individual State for each beneficiary before releasing funds.
vii. Import of planting material, mother block for mass multiplications.	Project based for a project cost upto Rs. 150 lakh/year.	Assistance @ 100% to State Govt. / Public Sector and in case of FPOs, FIGs, SHGs and Cooperatives credit linked subsidy @ 50% to SHGs as project-based activity.
viii. Production of quality Seed and Planting Material including handling, processing, packing& storage for identified horticulture crops	Project based for a project cost upto Rs. 300 lakh/year.	Assistance @ 100% to State Govt. / Public Sector and in case of private sector, credit linked subsidy @ 50% including FPOs, FIGs, SHGs and Cooperatives as project based activity.
B.2 Establishment of New Gardens (Area expansion- for a maximum area of 2 ha per beneficiary). Note: The component is to be integrated with drip in case drip is not proposed under MIDH scheme, then it should be converged with other scheme.		
I. Fruits		
Cost intensive crops		
i) Fruit crops like Grape, Kiwi, Passion fruit, Strawberry, Dragon fruit, Datepalm etc.		
Without drip Irrigation (Drip)	I. Strawberry	Assistance @ 40% in general areas for an area upto 2 ha. on pro rata basis for meeting the

Item	Cost Norms*	Pattern of Assistance#
should be in converged with other schemes)	Rs. 2.0 lakh/ha	expenditure on planting material and other input cost, in 2 instalments of 60:40 . In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis
	II. Kiwi, Passion fruit, Dragon fruit with support system Rs. 6.75 lakh/ha for Dragon fruit Rs. 2.75 lakh/ha for Passion fruit Rs. 2.50 lakh/ha for Kiwi	Assistance @40% in general areas for an area upto2 ha. on pro rata basis for meeting the expenditure on planting material, cost of material for trellis and other support systems, in 2 instalments of 60:40 subject to survival rate of 80% in 2nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
	III. Grape Rs. 3.00 lakh/ha. including support system	Assistance @ 40% in general areas for an area upto2 ha. on pro rata basis for meeting the expenditure on planting material, cost of material for trellis other support systems, in 2 instalments of 60:40 subject to survival rate of 80% in 2nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
	IV. Datepalm (Tissue culture) Rs. 4.00 lakh/ha	Assistance @40% in general areas for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and other support systems, in 2 installments of 60:40 subject to survival rate of 80% in 2nd year. The planting material should be certified as Tissue Culture planting material. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto2 ha. on pro rata basis.

Item	Cost Norms*	Pattern of Assistance#
a) With drip irrigation	As per PDMC norms	In addition to basic cost norms i.e. without drip irrigation as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, and Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
ii. Banana and Pineapple (By Suckers)		
a) Without drip Irrigation (drip should be in converged with other schemes)	Rs. 1.10 Lakh/ha	Assistance @40% in general areas for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and other input cost in 2 instalments of (60:40) subject to survival rate of 80% in 2 nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
b) With drip irrigation	As per PDMC norms	In addition to basic cost i.e. without drip irrigation as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, and Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
iii) Banana and Pineapple (By Tissue Culture)		
a) Without integration (drip should be in converged with other schemes)	Rs. 1.75 lakh/ha	Assistance @40% in general area for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and other input cost of in 2 instalments (60:40) subject to survival rate of 80% in 2 nd year. The planting material should be certified as Tissue Culture planting material. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
b) With drip irrigation.	As per PDMC norms	In addition to basic cost i.e. without drip irrigation as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, and Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.

Item	Cost Norms*	Pattern of Assistance#
(B) Fruit crops other than cost intensive		
(i) Fruit crops like Avocado, Rambutan, Persimmon, Durian, Apricot, Pear, Peach, Plum, Cherry, Blueberry, Fig, Mangosteen etc.		
a) Without drip Irrigation (drip should be in converged with other schemes)	Rs. 1.25 lakh/ha	Assistance @40% in general area for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and other input cost in 2 instalments of 60:40 subject to survival rate of 80% in 2nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis
b) With drip irrigation	As per PDMC norms	In addition to basic cost i.e. without drip irrigation as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, and Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
(ii) Fruit crops like–Papaya, Phalsa, Spota, Tamarind, Jamun, Bael, Karonda, Ber, Jackfruit, Khirni, Custard apple, Amla, Seabuckthorn, Garcinia, Hanuman phal (Soursop), Carobmola, Jackfruit etc.		
a) Without drip Irrigation (drip should be in converged with other schemes)	Rs. 75,000/ha	Assistance @40% in general area for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and other input cost in 2 instalments of 60:40 subject to survival rate of 80% in 2nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis
b) With drip irrigation	As per PDMC norms	In addition to basic cost i.e. without drip irrigation as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.

Item	Cost Norms*	Pattern of Assistance#
C) New orchards of Apple, Mango, Guava, Litchi, Pomegranate, Citrus etc.		
a) Without drip irrigation (drip will be in convergence with other schemes)		
(i). Regular spacing	Rs. 1.25lakh/ha.	Assistance @ 40% in general area for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and other input cost in 2 instalments of 60:40 subject to survival rate of 80% in 2nd year.
(ii). High Density (Other than Apple)	Rs. 2.00 lakh/ha.	
(iii) High Density for Apple with support system (Minimum 2222 plants per ha.)	Rs. 5.00 lakh/ha.	In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro-rata basis.
(iv) Ultra high density (Other than apple)	Rs. 3.0 lakh/ha.	
(v) Ultra high density for Apple with support system (Minimum 3333 plants per ha.)	Rs. 7.50 lakh/ha	
b) Integrated with drip irrigation	As per PDMC norms	In addition to basic cost i.e. without drip irrigation as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, and Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
II. Vegetables (For maximum area of 2 ha. per beneficiary)		
Hybrid vegetables (Tomato, sweet potato, alocasia, Bottle gourd, Squash, Zucchini, Bitter Gourd, Cauliflower, Cabbage, Broccoli, drumstick, Brussels, sprouts, French beans, Fabia beans, Peas green, Brinjal / Aubergines, Capsicum, Okra, Melons, Cucumber,	Rs.60,000/-ha	Assistance @ 40% in general areas for an area upto 2 ha. on pro-rata basis in single instalment. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis. In case of vibrant villages assistance will be @ 80% of the maximum cost.

Item	Cost Norms*	Pattern of Assistance#
Green Chillies, Carrot, Beet root, Turnip, Radish, knol kohl, kale, leafy vegetables etc.)		
i. Onion and Garlic in open pollinated	Rs. 50,000/ ha.	Assistance @ 40% in general areas for an area upto 2 ha. on pro-rata basis in single instalment. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis. In case of vibrant villages assistance will be @ 80% of the maximum cost.
III. Mushroom cultivation		
(a) Production Unit	Rs. 30 lakh/unit	100% of the cost to public sector and 40% of cost for private sector, for meeting the expenditure on infrastructure, as credit linked back ended subsidy. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50%
(b)Spawn making unit	Rs. 20 lakh/unit	100% of the cost to public sector and 40% of cost for private sector, for meeting the expenditure on infrastructure, as credit linked back ended subsidy. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50%
(c) Compost making Unit	Rs. 30 lakh/unit	100% of the cost to public sector and 40% of cost for private sector, for meeting the expenditure on infrastructure, as credit linked back ended subsidy. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50%.
(d) Low Cost/ Small Scale mushroom production unit	Rs. 2.00 Lakhs per unit for a structure of size of 200 sqft	Assistance @ 50% per unit for meeting expenditure on infrastructure and inputs subject to a maximum of 5 units per beneficiary.

Item	Cost Norms*	Pattern of Assistance#
IV. Flowers (For a maximum area of 2 ha per beneficiary)		
i. Cut Flowers	Rs. 1.25 lakh/ha	Assistance @ 40% in general areas for an area upto 2ha. on pro rata basis in 2 instalments of 60:40 In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro-rata basis
ii) Bulbous and Rhizomatic Flowers (Gladiolus, Lily, Daisy, Gerbera, Tuberose and Saffron etc.)	Rs. 2.50 lakh/ha	Assistance @ 40% in general areas for an area upto 2 ha. on pro rata basis in 2 instalments of 60:40. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
iii) Loose Flowers (Rose, Chrysanthemum, Tuberose, Jasmine, Crossandra, Marigold, Gailardia, Lotus, Neerium, Hybiscus, Barleria etc.)	Rs. 50,000 /ha	Assistance @ 40% in general area for an area upto 2 ha on pro rata basis in 2 instalments of 60:40. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha on pro rata basis.
V. Spices (For a maximum area of 2 ha per beneficiary)		
i. Seed Spices (Ajwain, Aniseed, Caraway, Celery, Coriander, Cumin, Dill, Fennel, Fenugreek, Nigella, Poppy, Black Cumin etc.)	Rs. 50,000/ha	Assistance @ 40% in general areas for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and cost of material for INM/IPM etc. in 2 instalments of 60:40. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
ii. Rhizomatic and bulbous Spices (Ginger, Turmeric, and Garlic)	Rs. 1.00 Lakh/ ha.	Assistance @ 40% in general areas for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and cost of material for INM/IPM etc. in 2 instalments of 60:40 In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.

Item	Cost Norms*	Pattern of Assistance#
iii. Perennial Spices (Black Pepper, Cinnamon, Cassia, Clove, Nutmeg, Kokum, Cambodge, Tamarind, Vanilla Cardamom, Allspice, Curry leaf, Star anise, Bay leaf etc.)	Rs. 1.00 lakh/ha	Assistance @ 40% in general areas for an area upto 2 ha. on pro-rata basis for meeting the expenditure on planting material and cost of material for INM/IPM etc. in 2 instalments of 60:40 In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro-rata basis.
VI. Aromatic and Medicinal Plants (For a maximum area of 2 ha per beneficiary)		
(i) Cost intensive aromatic plants (Rose, Rosemary, Tuberose, Geranium, Chamomile, Sandalwood, Davana, Jasmine, Lavender etc.)	Rs1.25 lakh/ha	Assistance @ 40% in general areas for an area upto2 ha. on pro rata basis for meeting the expenditure on planting material and cost of material for INM/IPM etc. in 2 instalments of 60:40 In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto2 ha. on pro rata basis.
(ii) Other aromatic plants (Palmarosa, Lemongrass, Tulsi, Vetiver, Java Citronella, Sweet Basil)	Rs 50,000/ha	Assistance @ 40% in general areas for an area upto2 ha. on pro rata basis for meeting the expenditure on planting material and cost of material for INM/IPM etc. in 2 instalments of 60:40 In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto2 ha. on pro rata basis.
(iii) Medicinal plants (Mulethi, Shatavari, Kalihari, Shwet Musali, Guggule, Manjishtha, Kutki, Atees, Jatamansi, Ashwagandha, Brahmi, Tulsi, Vidarikand, Pippali, Chirata, Pushkarmool etc.)	Rs. 1.5 lakh/ha	Assistance @ 40% in general areas for an area upto 2 ha.on pro rata basis for meeting the expenditure on planting material and cost of material for INM/IPM etc. in 2 instalments of 60:40 In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto2 ha. on pro rata basis.

Item	Cost Norms*	Pattern of Assistance#
VII. Plantation crops (For a maximum area of 2 ha per beneficiary). The component is to be integrated with drip in case drip is not proposed under MIDH scheme, then it should be converged with other scheme		
(A) Cashew and Cocoa		
(a) Without drip Irrigation (i) Regular Spacing (drip should be in converged with other schemes)	Rs 75,000 /ha.	Assistance @40% in general areas for an area upto 2 ha. on pro-rata basis for meeting the expenditure on planting material and other input cost of in 2 instalments of 60:40 subject to survival rate of 80% in 2 nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
(b) With Intercropping	Rs 50,000 /ha.	Assistance @40% in general areas for an area upto 2 ha. on pro-rata basis for meeting the expenditure on planting material and other input cost of in 2 instalments of 60:40 subject to survival rate of 80% in 2 nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
(ii) High Density (Minimum 400 plants per hectare) (Cashew Only)	Rs. 1.5 lakh/ha	Assistance @40% in general areas for an area upto 2 ha. on pro rata basis for meeting the expenditure on planting material and other input cost of in 2 instalments of 60:40 subject to survival rate of 80% in 2 nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro-rata basis.
(b) With drip irrigation	As per PDMC norms	In addition to basic cost i.e. without drip irrigation as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.

Item	Cost Norms*	Pattern of Assistance#
(B) New Orchards of Almond and Walnut		
a) Without drip irrigation (drip should be in converged with other schemes)	Almond: Rs. 3.00 lakh/ha. Walnut: Rs. 4.00 lakh/ha.	Assistance @ 40% in general areas for an area upto 2 ha on pro rata basis for meeting the expenditure on planting material and other input cost of in 2 instalments of 60:40 subject to survival rate of 80% in 2 nd year. In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro rata basis.
b) With drip irrigation	As per PDMC norms	In addition to basic cost i.e. without integration as mentioned above, assistance for establishment of drip irrigation system would be available as per the PDMC norms to all States including NE & Himalayan States, and Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
B.3. Rejuvenation/ replacement of senile plantation, canopy management		
(i) Removal of dead/dying/old plants	Rs. 10,000/ha	Assistance @ 40% in general areas for an area upto 2 ha on pro-rata basis In the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands, assistance will be @ 50% for an area upto 2 ha. on pro-rata basis
(ii) Top-working and gap filling with new plant	Rs. 10,000/ha	
(iii) Cost of input towards nutrient management, pest management and irrigation	Rs. 40,000/ha	
B.4. Creation of Water resources		
a) Water Harvesting Structures for Community– Construction of on farm community tank, pond /reservoirs with use of plastic/RCC lining	Rs. 24.00 lakh per unit @ Rs 80 per cubic metre in general areas and Rs 30 lakh/ per unit @ Rs 100 per cubic metre for NE & Himalayan States, and Scheduled areas, Andaman & Nicobar and Lakshadweep Islands for a	Assistance @ 75% to irrigate 10 ha of command area, for a storage capacity of 30,000 cubic meter and for smaller capacity on pro-rata basis depending upon the command area either with use of minimum 500-micron plastic films or RCC/HDPE lining; owned & managed by a community/ farmer group. Cost for non-lined ponds/tanks (only in black cotton soils) will be 30% less.

Item	Cost Norms*	Pattern of Assistance#
	maximum capacity of 30,000 cub mts.	Assistance will be restricted to the cost of plastic/RCC lining. However, for non MNREGA beneficiaries, assistance on entire cost including construction of pond/tank as well as lining can be availed under the scheme.
b) Water Harvesting Structure for Individuals – Construction of on farm ponds/ tanks etc with use of plastic/RCC lining	As per PDMC norms	As per PDMC norms
c) Construction of tube-well/bore well (This component will be considered only in integration with other components)	As per PDMC norms	As per PDMC norms
d) Flexible Water Storage Tank (This component will be considered only in integration with other components)	At the rate of Rs. 0.8/litre for a capacity upto 10,000 litres.	Assistance @ 50 % as per prescribed norms for different capacities on pro-rata basis upto a max capacity of 50000 litres/beneficiary in NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands only.
B.5. Protected cultivation		
1. Poly house/ Hybrid/ Retractable structures		
(a) Fan & Pad System	Rs. 1800/Sq.m(up to area 500 Sq. m) Rs. 1600/Sq. m (>500 Sq.m up to 1008 Sqm) Rs. 1500/Sq. m (>1008 Sq. m up to 2500 Sq.m) Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands	Assistance @ 50% for a maximum area of 2500 sq m per beneficiary or on pro-rata basis for smaller areas.

Item	Cost Norms*	Pattern of Assistance#
(b) Naturally ventilated system		
i. Tubular/ Rectangular Structure	Rs.1200/Sq.m(up to area 500 Sq. m) Rs. 1050/Sq.m (>500 Sq. m up to 1008 Sq. m) Rs. 1000/Sq. m (>1008 Sqm up to 2500 Sq. m) Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 2500 sq. m per beneficiary or on pro-rata basis for smaller areas.
ii. Bamboo/Cable purlin structure	Rs 450/Sq.mt. Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands	Assistance @ 50% for a maximum area of 2500 sq. m per beneficiary or on pro-rata basis for smaller areas. In case of Bamboo structure, assistance will be limited to 20 units per beneficiary and size of the each unit not to exceed 200 sq.m.
2. Shade Net/Agro Textile Net House		
(a) Tubular /Rectangular structure	Rs 710/sq m Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 2500 sq.m per beneficiary or on pro-rata basis for smaller areas
(b) Bamboo /Cable purlin structure	Rs. 450/sq. m. Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep	Assistance @ 50% for a maximum area of 2500 sq.mt per beneficiary or on pro-rata basis for smaller areas. In case of Bamboo structure, assistance will be limited to 20 units per beneficiary and size of each unit not to exceed 200 Sq.mt.

Item	Cost Norms*	Pattern of Assistance#
	Islands.	
3. Plastic/Non woven cloth Tunnels	Rs. 80/sqm Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 2500sqmt per beneficiary or on pro-rata basis for smaller areas.
4. Walk in tunnels	Rs. 720/sqm Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum of 3 units per beneficiary (each unit not to exceed 800 sqm).
5. Anti Bird/Anti Hail Nets	Rs. 50/ Sqm Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 10000 sq mt. per beneficiary or on pro-rata basis for smaller areas.
6. Cost of planting material & cultivation of high value fruits and vegetables grown in poly-house/net house	Rs 150/ Sqm Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 2500 sqm per beneficiary or on pro-rata basis for smaller areas. Crops like Capsicum, Cucumber, Muskmelon, Tomato, Broccoli, Parsley, Celery and other crops approved by Research Institutions may be considered for assistance.
7. Cost of planting material & cultivation of Orchid (net house) and Anthurium (poly house) grown	Rs 700/ Sqm Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages,	Assistance @ 50% for a maximum area of 2500 sqm per beneficiary or on pro-rata basis for smaller areas.

Item	Cost Norms*	Pattern of Assistance#
in protected conditions.	Andaman & Nicobar and Lakshadweep Islands.	
8. Cost of planting material & cultivation of Carnation & Gerbera grown in Poly houses.	Rs. 600/Sq.mt. Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 2500 sqm per beneficiary or on pro-rata basis for smaller areas.
9. Cost of planting material & cultivation of Rose, Chrysanthemum and Lilum grown in Poly houses.	Rs 450/ Sqm Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 2500 sqm per beneficiary or on pro-rata basis for smaller areas.
10. Mulching Plastic/Jute/Agro textile/any other biodegradable material	Rs 40,000/ha Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% subject to a maximum of 2 ha per beneficiary or on pro-rata basis for smaller areas.
11. Add on Components:		
i. Hydroponics and Aeroponics	Rs. 350/- per Sq.mt. Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 1000 sqm per beneficiary or on pro-rata basis for smaller areas.
ii. Circulation Fans in poly house only	Rs. 5000 per fan. Above rates will be 15% higher in the case of NE & Himalayan	Assistance @ 50% for a maximum of 6 fans for a maximum area of 2500sq.m. per beneficiary or on pro-rata basis for smaller areas.

Item	Cost Norms*	Pattern of Assistance#
	States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	
iii. Sensor based Automation System for fertigation	Rs. 4 lakh/unit Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% per unit per beneficiary for minimum area of 2500sq.m. per beneficiary under protected cultivation.
iv. Support system for vegetable crops	Rs. 0.20 Lakhs per ha Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for all farmers for a maximum area of 2 Ha per beneficiary or on pro-rata basis for smaller areas.
v. Permanent Support Structures for Anti hail/Anti bird nets	Rs. 20 per Sq.mt. of covered area Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for a maximum area of 2 ha. per beneficiary or on pro-rata basis for smaller areas.
vi. Fencing (This component will be considered only in integration with other components of MIDH Scheme)	Rs. 300 per running metre Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar	Assistance @ 50% subject to a maximum of 1000 running metres per beneficiary. The component should consist of 4 running lines with iron poles having distance of 10 feet between the poles.

Item	Cost Norms*	Pattern of Assistance#
	and Lakshadweep Islands.	
vii. Fruit/Bunch cover (Paper /Non-woven cover/Paper bags etc	Rs. 0.50 lakh/ha Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for all farmers for maximum area of 2 ha per beneficiary or on pro-rata basis for smaller areas.
viii. Weed Mat	Rs. 50 per Sq.mt. Above rates will be 15% higher in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.	Assistance @ 50% for all farmers for maximum area of 4000 Sq.mt. per beneficiary or on pro-rata basis for smaller areas.
B. 6 PFDCs	Project based	Assistance @ 100% to PFDCs
B.7 Promotion of Integrated Nutrient Management (INM)/Integrated Pest Management (IPM)		
i) Promotion of INM/IPM	Rs. 5000/ha.	Assistance @ 30% for an area upto 2 ha. per beneficiary or on pro-rata basis for smaller areas.
ii) Plant Health Clinics	Rs. 25.00 lakh/unit	Assistance @ 100% to Public sector and @ 50% to private sector
B.8 Organic Farming		
i. Adoption of Organic farming	As per PKVY norms	Assistance for adoption of Organic farming would be available as per PKVY norms for an area upto 2 ha. per beneficiary or on pro-rata basis for smaller areas to all States including NE & Himalayan States, Scheduled areas, Andaman & Nicobar and Lakshadweep Islands.
ii. Organic Certification	As per PKVY norms	Assistance for Organic Certification would be available as per the PKVY norms to all States including NE & Himalayan States, Scheduled areas, Andaman & Nicobar and Lakshadweep Islands.
iii. Vermi compost Units/organic input production	Rs.1,00,000/ unit for permanent structure and Rs. 16,000/unit for HDPE Vermibed.	Assistance @ 50% conforming to the size of the unit of 30'x8'x2.5' dimension of permanent structure. For HDPE Vermibed, @ 50% conforming to the size of 96 cft (12'x4'x2') and IS 15907:2010

Item	Cost Norms*	Pattern of Assistance#
B.9 Adoption and Certification for Good Agricultural Practices (GAP) /Bharat GAP	Rs. 20,000/ha.	Assistance @ 50% subject to a maximum of 2 ha/ beneficiary or on pro-rata basis for smaller areas.
B.10 Centre of Excellence for Horticulture Crops	Rs 1500.00 Lakh/ centre	Assistance @ 100% to public sector. This can be established in technical collaboration under bi-lateral co-operation also.
B.11 Pollination support through beekeeping		
i. Production of nucleus stock (Public Sector)	Rs. 20.00 Lakh	100% of the cost
ii. Production of bee colonies by bee breeder.	Rs. 10.00 Lakh	40% of cost for producing min. of 2000 colonies / year
iii. One unit of Bee Hives/Boxes of 8 frames with bee colonies	Rs. 4000/unit	40% of cost limited to 50 colonies / beneficiary.
iv. Bee Hive	Rs. 2000 per hive	40% of cost limited to 50 colonies / beneficiary
v. Equipment including honey extractor (4 frame), food grade container (30 kg), net, including complete set of Bee keeping equipment.	Rs. 20,000/set	40% of the cost limited to one set per beneficiary.
12. Horticulture Mechanization (Standalone machinery/equipment will not be permissible)		
i. Tractor		
a) Tractor (upto 20 PTO HP) 2 WD	As per SMAM norms	As per SMAM norms
(b) Tractor (upto 20 PTO HP) 4 WD	As per SMAM norms	As per SMAM norms
ii. Power Tiller		
a) Power tiller (upto 8 BHP)	As per SMAM norms	As per SMAM norms
b) Power tiller (above 8 BHP)	As per SMAM norms	As per SMAM norms
iii). Plant Protection Equipments		
(a) Manual Sprayer-Knapsack/ Foot operated sprayer	As per SMAM norms	As per SMAM norms

Item	Cost Norms*	Pattern of Assistance#
b) Powered Knapsack sprayer/Power Operated Taiwan sprayer (capacity 8 - 12 lts)	As per SMAM norms	As per SMAM norms
c) Powered Knapsack sprayer/Power Operated Taiwan sprayer (capacity above 12-16 lts)	As per SMAM norms	As per SMAM norms
d) Powered Knapsack sprayer/Power Operated Taiwan sprayer (capacity above 16/lts)	As per SMAM norms	As per SMAM norms
(e) Tractor Operated sprayer (boom type)	As per SMAM norms	As per SMAM norms
(f) Tractor Operated Sprayer (air carrier/assisted)	As per SMAM norms	As per SMAM norms
(g) Tractor Operated Electrostatics Sprayer	As per SMAM norms	As per SMAM norms
(h) Eco Friendly Light Trap	As per SMAM norms	As per SMAM norms
iv) Import of new machines & tools for horticulture for demonstration purpose	Upto a maximum of Rs. 100.00 lakh per unit	Assistance @ 100% of the total cost only to public sector and 50% for private sector for Farmers group/FPOs/FIGs
B. 13. Technology Dissemination	Rs. 25.00 lakh	Assistance @ 75 % in farmers field and @ 100% in farms belonging to Public Sector, ICAR, SAUs etc.

Item	Cost Norms*	Pattern of Assistance#
through Demonstration /Front Line Demonstration		
B. 14 Human Resource Development (HRD)		
i) HRD for Gardeners	Rs. 15.00 lakh/unit	100% of the cost.
ii) Training for Supervisors, Gardeners and Agri/Horti Entrepreneurs as per approved courses of Training Institute/ Agriculture Skill Council of India (ASCI) for Horticulture sector.	Assistance @ 100% as per cost norms of Training Institutes/ASCI	Assistance @ 100% as per cost norms of Training Institutes/ASCI
iii) Training/Exposure visit of farmers		
a) Within State	Rs. 1000/day per farmer including transport	Assistance @100% of the prescribed cost norms. For a maximum period of 5 days
b) Outside State	Project based as per actuals.	Assistance @ 100% as per actuals. For a maximum period of 7 days including journey time
c) Outside India	Upto a maximum of Rs. 1.5 lakh / participant	Project Based. Assistance @ 100% of economic air/rail travel. Course fee cost to be funded under Mission Management. (Proposal will be considered by MIDH Division, DA&FW Only)
iv) Training / Study tour of Officers/Technical staff/ Field functionaries		
a) Within the State	Rs.300/day per participant plus TA/ DA, as admissible	Assistance @ 100% of the prescribed cost norms.
b) Study tour to outside States/UTs (group of minimum 5 participants)	Rs.1000/day per participant plus TA/ DA, as admissible	Assistance @ 100% of the prescribed cost norms.
c) Outside India	Upto a maximum of Rs. 1.50 lakh per participant as per actual.	Project Based. Assistance @ 100% of economic air/rail travel. Course fee cost to be funded under Mission Management. (Proposal will be considered by MIDH Division, DA&FW Only)

Item	Cost Norms*	Pattern of Assistance#
C. Integrated Post Harvest Management		
C.1 FARM GATE PACKHOUSE with Movable Handling Trolley, Sorting Table and Farm Gate Standalone Cold Storage	Upto a maximum of Rs.25.0 lakh/unit with size of 9MX6M per beneficiary. However, actual cost would be derived based on the option/technology chosen depending upon component selection as per NCCD guidelines.	Assistance @ 50% admissible only. Note: the component has to be implemented in accordance to NCCD guidelines only
C.2 INTEGRATED PACK HOUSE with facilities of size 18m x 22m with conveyor belt sorting, grading, washing, drying, weighing scale, HPT, Stacking(crates), Dock Leveler System, Precooling(if required)#, cold room transit and Reefer van # This is add-on component and is provided need based only in integrated mode.	Upto a maximum of Rs 160.00 lakh per beneficiary. However, actual cost would be derived based on the component/option chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: the component has to be implemented in accordance to NCCD guidelines only
C.3. COLLECTION AGGREGATION CENTRE with facilities of size 22m x 26m with conveyor belt sorting, grading, washing, drying, weighing bridge, Automated computerised system, HPT, BOPT, Stacking(crates), Dock Leveler System, Precooling(if	Upto a maximum of Rs 320.0 lakh per beneficiary. However, actual cost would be derived based on the component/option chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: the component has to be implemented in accordance to NCCD guidelines only

Item	Cost Norms*	Pattern of Assistance#
required)# and cold room transit. # This is add-on component and is provided need based only in integrated mode.		
C.4 Pre-cooling unit	Upto a maximum cost of Rs. 5 Lakh/MT.	Back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: the component has to be implemented in accordance to NCCD guidelines only
C.5 Mobile pre-cooling unit	Rs. 30.00 lakh	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
C.6 Cold Rooms		
i. Cold Rooms (Staging)	Upto a maximum cost of Rs. 52.00 lakh.	Back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
ii. Solar Power Cold Room	May be taken on standalone basis as proposed in C1, C2, C3 and C6.	Back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
C.7 Cold Storage Type- I (CS-1)		
i) Cold Storage Type-I is defined as CS-1 with Construction in civil including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazenine structure (For other	Rs. 9600/MT, (Max 5,000 MT capacity)	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

Item	Cost Norms*	Pattern of Assistance#
component details please refer to NCCD guidelines)		
ii) Cold Storage Type-I is defined as CS-1 with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mezzanine structure (For other component details please refer to NCCD guidelines)	Rs. 12000/MT, (Max 5,000 MT capacity)	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
iii) CO2 scrubber (need/produce based), unified control system, material conveying/hoist system, Automated computerised system, HPT, BOPT and dock leveller system (Applicable for Cold storage units Type 1 only)	Upto Max cost of Rs. 50.0 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
C.8 Cold Storage Type- I-Onion (CS-1-Onion)		
i) Cold Storage Type-I-Onion is defined as CS-1-Onion with Construction in civil including PUF/PIR panels, Doors and Ante-rooms,	Rs. 9600/MT, (Max 5,000 MT capacity)	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in

Item	Cost Norms*	Pattern of Assistance#
Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mezzanine structure (For other component details please refer to NCCD guidelines)		accordance to NCCD guidelines only
ii) Cold Storage Type-I-Onion is defined as CS-1-Onion with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mezzanine structure (For other component details please refer to NCCD guidelines)	Rs. 12000/MT, (Max 5,000 MT capacity)	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
iii) CO2 scrubber, unified control system, material conveying/hoist system, Automated computerised system, HPT, BOPT and dock leveller system (Applicable for Cold storage units Type 1-	Upto Max cost of Rs. 278.00 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosendepending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

Item	Cost Norms*	Pattern of Assistance#
onion only)		
C.9 Cold Storage Type- II (CS-2)		
i) Cold Storage Type-II is defined as CS-2 with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mezzanine structure	Rs. 12000/MT, (Max 5,000 MT capacity)	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
ii) CO2 scrubber (need/produce based), unified control system, material conveying/hoist system, HPT, BOPT and dock leveller system (Applicable for Cold storage units Type 2 only)	Upto Max cost of Rs. 49.00 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
C.9 Cold Storage Type- II-CA (CS-2-CA)		
v) Cold Storage Type-II with CA is defined as CS-2-CA with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block,	Additional Rs. 12000/MT for a maximum capacity of 5000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

Item	Cost Norms*	Pattern of Assistance#
Safety/Fire Safety and Hazard control and basic mazenine structure (For other component details please refer to NCCD guidelines)		
ii) CA Add-on: Details of the components are described in NCCD guidelines.	Upto Max cost of Rs. 1345 lakhs/project (Max. subsidy for CA store may not exceed more than 900 Lakhs including add-ons) The actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
C.10 Cold Storage Type- IV (CS-4)		
i) Cold Storage for dry spices & raisins is defined as CS-4 with Construction in civil including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazenine structure (For other component details please refer to NCCD guidelines)	Rs. 9600/MT, (Max 5,000 MT capacity)	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
ii) Cold Storage for	Rs. 12000/MT, (Max	Credit linked back-ended assistance @ 35% in

Item	Cost Norms*	Pattern of Assistance#
dry spices & raisins, MFP, etc. is defined as CS-4 with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazenine structure (For other component details please refer to NCCD guidelines)	5,000 MT capacity)	General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
iii) Unified control system, material hoist HPT, BOPT and dock leveller system (Applicable for Cold storage units for dry spices and raisins)	Upto Max cost of Rs. 31.00 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
C.12 Technology induction/modernization of Cold Storage	Max. Rs. 125lakh but not more than Rs. 3000/MT of the cold store capacity for refrigeration and Max. Rs. 120 lakh but not more than Rs. 1800/MT for insulation respectively. However, actual cost would be derived based on the component and qty., etc. chosen	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands Note: Component has to be implemented in accordance to NCCD guidelines only

Item	Cost Norms*	Pattern of Assistance#
	depending upon components selection as per NCCD guidelines.	
C.13 Refrigerated Transport vehicles	Rs. 31.00 lakh for upto max. capacity of 14 MT and on pro-rata basis for smaller capacity but not below 4MT. However, actual cost would be derived based on quantity etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands Note: Component has to be implemented in accordance to NCCD guidelines only
C.14 Primary/ Minimal Processing Unit (This component will be considered only integrated with other components of MIDH Scheme)	Rs. 35.00 lakh/unit	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
C.15 Ripening Chamber also termed as CS-3		
i) Non-Pressurised Ripening Chamber also termed as CS-3	Rs 1.00 lakh/MT	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands
ii) Pressurised Ripening Chamber also termed as CS-3	Rs. 1.20 lakh/MT	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands
C.16 Low-cost Onion/Garlic storage structure	Rs. 7000/MT	Back-ended assistance @ 50 % for a unit of the size from 5 to 1000 MT capacity on pro rata basis in all areas throughout country as per following details: 5-25 MT - 10000/MT 25-500 MT - 8000/MT 500-1000 MT - 6000/MT

Item	Cost Norms*	Pattern of Assistance#
		(Assistance will be credit linked in case if project cost is more than Rs. 30.00 lakh)
C.17 Pusa Zero energy cool chamber (100 kg)	Rs 4000 per unit	50 % of the total cost
C. 18 Solar Crop Dryer (with 24 Hrs. Backup)	Rs. 2.50 lakh/unit of 70 kg capacity and Rs. 3.50 lakh/unit of 100 kg capacity for a maximum of 5 units per beneficiary	Assistance @ 40% in General areas and 55% in the case of NE & Himalayan States, TSP areas, Hilly and Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
C.19 Integrated Cold Chain Project	Upto a max. cost of Rs. 1000.00 lakh/per project. Project should comprise of minimum 5 components from C-2 to C-11 to qualify for assistance.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands
C.20 Integrated Supply Chain Project	Upto a maximum cost of Rs. 2000 lakh per project	Credit linked back-ended assistance @ 40% of eligible cost of project in General areas and 55% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
C.21 Integrated Supply Chain Project	Upto a maximum cost of Rs. 2000 lakh per project	Credit linked back-ended assistance @ 40% of eligible cost of project in General areas and 55% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
D. Establishment of Marketing Infrastructure		
D.1 Rural Markets/Apnimandis/ Direct markets	Rs. 25.00 Lakh	Back-ended assistance @ 40% of the capital cost of project in general areas and 55% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
D.2 Retail markets/ outlets (environmentally controlled)	Rs. 20.00 Lakh/unit	Assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
D.3 Static/Mobile vending cart/platform	Rs. 30,000/unit	50% of total cost.

Item	Cost Norms*	Pattern of Assistance#
with cool chamber		
D.4 Modified retail refer van with retail counter (to be linked with Integrated Pack house)	Rs. 20 Lakhs with loading capacity of 3 MT	Assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
D.5 Functional infrastructure:		
(i) Quality control /analysis lab	Rs 200.00 lakh	Assistance @ 100% of the total cost to public sector and credit linked back-ended assistance @ 50% of cost to private sector to check Maximum Residue Levels. The project could be established in PPP Mode also.
E. FOOD PROCESSING		
E.1 Food Processing	Rs. 1000 lakh/unit	Credit linked back-ended capital investment assistance of 50% of cost in the NE and Himalaya States i.e. J&K, Himachal and Uttarakhand.
E.2 Secondary Processing units for Value addition	Rs. 100 lakh/unit	Assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands.
F. Special Interventions		
F.1 Innovative interventions not covered under any GOI scheme.	10% of outlay	Assistance @ 50% of cost as a project based activity.
F.2 Tackling of emergent/unforeseen requirement of SHMs	Upto a maximum of Rs 100.00 lakh	Assistance @ 50% of cost based on project proposal.
G. Mission Management		
G.1 State & Districts Mission Offices and implementing agencies for administrative expenses, project, preparation, computerization, contingency etc.	2.5% of total annual expenditure	100% assistance
G.2 Institutional Strengthening including purchase of hardware, software and hiring of vehicles.	Need based	100% assistance

Item	Cost Norms*	Pattern of Assistance#
G.3 Seminars conferences, workshops, exhibitions, kisan mela, horticulture shows, honey festivals etc.		
a) International level	Rs 7.50 lakh per event	Assistance @ 100% to public sector and @ 50% to private sector per event of 3 days on pro rata basis. Physical Participation from atleast 5 countries.
b) National level	Rs 5.00 lakh per event	Assistance @ 100% to public sector and @ 50% to private sector per event of 2 days on pro rata basis
c) State level	Rs 3.00 lakh per event	Assistance @ 100% to public sector and @ 50% to private sector per event of 2 days on pro rata basis
d) District level	Rs 2.00 lakh per event	Assistance @ 100% to public sector and @ 50% to private sector per event of 2 days on pro rata basis
G.4 Information dissemination through publicity, printed literature and local advertisements etc.	Rs 1.00 lakh/ district	Assistance @ 100% of cost
G.5 Technical Support Group at State level	Project based subject to ceiling of Rs 50.00 lakh per annum per State	100% of cost should not exceed the ceiling per annum.
G.6 Baseline survey and strengthening horticultural statistical data base	Project based subject to a maximum of Rs. 200 Lakhs per State/UT	Assistance @ 100% of cost as one time grant for survey related activities.
National Level		
G.7 Technical Support Group at National level for hiring experts/ staffs, studies, seminars / workshops, training, contingencies	2.5% of BE per annum	100% of cost.
G.8 Technical collaboration with international agencies like FAO, World Bank, ADB, Bilateral cooperation,	Project based. On actual cost basis.	100% of cost

Item	Cost Norms*	Pattern of Assistance#
international exposure visits/ training of officials etc.		

* Cost norms means upper limit of cost for calculation of subsidy.

Note:

1) The release of subsidy need not be credit linked for the institutions like Public Sector Units, Panchayats, Cooperatives, Registered Societies / Trusts and Public limited Companies, provided they can meet the remaining share of the project cost, out of their own resources. Scheduled Areas include those areas notified by Planning Commission and State Governments. TSP Areas include those areas notified by Ministry of Tribal Affairs. Vibrant villages are those border villages which are situated at Ladakh, Himachal Pradesh, Uttarakhand, Sikkim & Arunachal Pradesh and are notified by the Ministry of Home Affairs. NE & Himalayan States refer to States in North East & Himalayan region covered under HMNEH scheme.

2) Credit linkage for projects upto Rs. 30 lakhs may be optional and subsidy would be released in two instalments in TRA/Escrow/SRF accounts based on progress after the Joint inspection report when found satisfactory.

3) New add on components and crops may be added with the approval of Hon'ble AM, if required.

Annexure VI

National Horticulture Board: Proposed Changes in Components and Cost Norms

S. No.	Item	Cost norms	Pattern of assistance
Scheme No. 01	Development of Commercial Horticulture through Production and Post Harvest Management (Integrated Projects)		
1 (i)	Commercial Horticulture Development in open field conditions in a project mode.	Rs. 100.00 lakh/per project for projects covering area over 2 ha., including add on components as per crop wise/component wise cost norms of MIDH on pro-rata basis. The integrated project may include the components viz planting material, plantation, irrigation, fertigation, mechanization, precision farming, GAP etc.	Credit linked back ended subsidy @ 40% of project cost in general area and @ 50% of project cost for NER and Himalayan States, Scheduled Areas and UTs of Andaman & Nicobar Islands, Lakshadweep Islands, Jammu & Kashmir and Ladakh.
1 (ii)	Large scale Hi-Tech open field cultivation of identified high value horticulture crops in a project mode (Apple, Walnut, Almond, Cashew nut, kiwi and date palm)	Rs. 200.00 lakh/per project for projects covering area over 20 ha., as per crop wise/component wise cost norms of MIDH on pro-rata basis. The integrated project may include the components viz planting material, plantation, irrigation, fertigation, mechanization, precision farming, GAP etc.	Credit linked back ended subsidy @ 40% of project cost in general area and @ 50% of project cost for NER and Himalayan States, Scheduled Areas and UTs of Andaman & Nicobar Islands, Lakshadweep Islands, Jammu & Kashmir and Ladakh.

S. No.	Item	Cost norms	Pattern of assistance
1 (iii)	Commercial Horticulture Development in protected conditions in project mode	Project based as per MIDH cost norms including add on components for area above 2500 Sq.m per project as per crop wise/component wise cost norms of MIDH on pro-rata basis. For NE States, lower limit of area may be kept at 1000 Sq. m	Credit linked subsidy @ 50% of eligible project cost having maximum subsidy upto 100 Lakh/project.
1 (iv)	Hi-tech Plug Type Nursery under controlled conditions in project mode	Project based as per MIDH cost norms including add on components for area above 2500 Sq.m per project as per crop wise/component wise cost norms of MIDH on pro-rata basis. For NE States, lower limit of area may be kept at 1000 Sq. m	Credit linked subsidy @ 50% of eligible project cost having maximum subsidy upto 100 Lakh/project.
1 (v)	Setting up of new Tissue Culture Unit	As per MIDH norms	As per MIDH norms
1 (vi)	Integrated Mushroom Production Unit in project mode	As per MIDH norms for a minimum installed capacity above 50 MT and upto 300 MT in controlled conditions	Credit linked subsidy @ 40% of eligible project cost in General area and @ 50% of eligible project cost for NER and Himalayan States, Scheduled Areas and UTs of Andaman & Nicobar Islands, Lakshadweep Islands, Jammu & Kashmir and Ladakh.
1 (vii)	All Post Harvest Management Components(C1 to C6 as per MIDH guidelines)	As per MIDH Cost Norms	As per MIDH Cost Norms

S. No.	Item	Cost norms	Pattern of assistance
		Note: Component has to be implemented in accordance to NCCD guidelines only	
1 (viii)	Refrigerated Transport vehicles	Upto max. Rs. 80.00 lakh/ project in general areas and Upto max. Rs. 100.00 lakh/ project in Northeast & Himalayan regions for refrigerated vehicle capacity of 15 MT and above. However, actual cost would be derived based on quantity etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands Note: Component has to be implemented in accordance to NCCD guidelines only
1 (ix)	Secondary Processing units for Value addition	Rs. 100 lakh/unit (as per MIDH cost norms)	Assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands (as per MIDH norms)
1 (x)	Non-Pressurized Ripening Chamber also termed as CS-3	Rs. 1.00 lakh/MT	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands
1 (ix)	ii) Pressurized Ripening Chamber also termed as CS-3	Rs. 1.20 lakh/MT	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands

S. No	Item	Cost norms	Pattern of assistance
Scheme No. 02	Capital Investment subsidy scheme for Construction/ Expansion/ Modernization of Cold Storages		
CS-1	i) Cold Storage Type-I is defined as CS-1 with Construction in civil including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure (For other component details please refer to NCCD guidelines)	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 9120/MT for capacity between 5001 to 6500 MT. • @ Rs. 8640/MT for capacity between 6501 to 8000 MT. • @ Rs. 8160/MT for capacity between 8001 to 10,000 MT. @ Rs. 4080/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
	ii) Cold Storage Type-I is defined as CS-1 with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure (For other component details please refer to NCCD guidelines)	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 11400/MT for capacity between 5001 to 6500 MT. • @ Rs. 10800/MT for capacity between 6501 to 8000 MT. • @ Rs. 10200/MT for capacity between 8001 to 10,000 MT. @ Rs. 5100/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

	iii) CO2 scrubber (need/produce based), unified control system, material conveying/hoist system, Automated computerised system, HPT, BOPT and dock leveller system (Applicable for Cold storage units Type 1 only)	Upto Max cost of Rs. 52.0 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
CS-1 Onion	i) Cold Storage Type-I-Onion is defined as CS-1-Onion with Construction in civil including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure (For other component details please refer to NCCD guidelines)	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 9120/MT for capacity between 5001 to 6500 MT. • @ Rs. 8640/MT for capacity between 6501 to 8000 MT. • @ Rs. 8160/MT for capacity between 8001 to 10,000 MT. @ Rs. 4080/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

	ii) Cold Storage Type-I-Onion is defined as CS-1-Onion with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure (For other component details please refer to NCCD guidelines)	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 11400/MT for capacity between 5001 to 6500 MT. • @ Rs. 10800/MT for capacity between 6501 to 8000 MT. • @ Rs. 10200/MT for capacity between 8001 to 10,000 MT. @ Rs. 5100/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
	iii) CO2 scrubber, unified control system, material conveying/hoist system, Automated computerised system, HPT, BOPT and dock leveller system (Applicable for Cold storage units Type 1-onion only)	Upto Max cost of Rs. 531.00 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

CS 2	i) Cold Storage Type-II is defined as CS-2 with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 11400/MT for capacity between 5001 to 6500 MT. • @ Rs. 10800/MT for capacity between 6501 to 8000 MT. • @ Rs. 10200/MT for capacity between 8001 to 10,000 MT. @ Rs. 5100/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
	ii) CO2 scrubber (need/produce based), unified control system, material conveying/hoist system, HPT, BOPT and dock leveller system (Applicable for Cold storage units Type 2 only)	Upto Max cost of Rs. 52.00 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

CS-2-CA	i) Cold Storage Type-II with CA is defined as CS-2-CA with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure (For other component details please refer to NCCD guidelines)	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 11400/MT for capacity between 5001 to 6500 MT. • @ Rs. 10800/MT for capacity between 6501 to 8000 MT. • @ Rs. 10200/MT for capacity between 8001 to 10,000 MT. @ Rs. 5100/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
	ii) CA Add-on: Details of the components are described in NCCD guidelines.	Upto Max cost of Rs. 1375 lakhs/project (Max. subsidy for CA store may not exceed more than 900 Lakhs including add-ons) The actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

CS-4	i) Cold Storage for dry spices & raisins is defined as CS-4 with Construction in civil including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure (For other component details please refer to NCCD guidelines)	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 9120/MT for capacity between 5001 to 6500 MT. • @ Rs. 8640/MT for capacity between 6501 to 8000 MT. • @ Rs. 8160/MT for capacity between 8001 to 10,000 MT. @ Rs. 4080/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
	ii) Cold Storage for dry spices & raisins, MFP, etc. is defined as CS-4 with Construction in combination of civil & PEB including PUF/PIR panels, Doors and Ante-rooms, Refrigeration Units, Electrical Installation, Administrative block, Safety/Fire Safety and Hazard control and basic mazzenine structure (For other component details please refer to NCCD guidelines)	NHB to take up projects with capacity above 5000 MT and upto 20,000 MT as per following rates: • @ Rs. 11400/MT for capacity between 5001 to 6500 MT. • @ Rs. 10800/MT for capacity between 6501 to 8000 MT. • @ Rs. 10200/MT for capacity between 8001 to 10,000 MT. @ Rs. 5100/MT for capacity between 10001 to 20,000 MT.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only

	iii) Unified control system, material hoist HPT, BOPT and dock leveller system (Applicable for Cold storage units for dry spices and raisins)	Upto Max cost of Rs. 33.00 lakh/ project. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands. Note: Component has to be implemented in accordance to NCCD guidelines only
	Technology induction/modernization of Cold Storage	Max. Rs. 125 lakh but not more than Rs. 3000/MT of the cold store capacity for refrigeration and Max. Rs. 120 lakh but not more than Rs. 1800/MT for insulation respectively. However, actual cost would be derived based on the component and qty., etc. chosen depending upon components selection as per NCCD guidelines.	Credit linked back-ended assistance @ 35% in General areas and 50% in the case of NE & Himalayan States, Scheduled areas, vibrant villages, Andaman & Nicobar and Lakshadweep Islands Note: Component has to be implemented in accordance to NCCD guidelines only

Scheme No. 03	Development and Transfer of Technology for Promotion of Horticulture		
3 (i)	<i>Scion and Root Stock Mother Block for Nursery purpose</i>	Maximum upto Rs. 100.00 Lakh/ha for an area from 1 to 5 ha on pro rata basis including virus indexing, tissue culture lab etc.	No change

3 (ii)	Import of planting material, mass multiplication & upgradation of existing and establishment of new PEQ facilities.	As per MIDH	As per MIDH
3 (iii)	Accreditation and Rating of Horticulture Nurseries"	Rs.1.00 lakh/ nursery	By Central Nodal Agency
3 (iv)	Import of new Machines and Tools for horticulture for demonstration purpose (Public Sector)	Rs. 50.00 lakh/machine	100% of total cost and only through govt. agency
3 (v)	Development & Transfer of Technology	Rs. 30.00 lakh/ project	No change
3 (vi)	Long Distance Transport Solution	Rs. 2000.00 lakh	Project based
3 (vii)	Product Promotion and Market Development Services through Horti-fairs etc.	Rs. 30.00 lakh per project at National Level and Rs. 100.00 Lakhs for International Level.	No Change
3 (viii)	Exposure visits & training of farmers outside State"	As per MIDH norms	As per MIDH norms
3 (ix)	Visits of Govt officials outside India"	Rs. 6.00 lakh per participant	100% of cost on actual basis.
3 (x)	Organization/ Participation in Seminar/ Symposia / Workshop for Development of Horticulture at national and international level	Rs. 10.00 lakh for International event, Rs. 5.00 lakh for National event and Rs. 3.00 lakh for State Level event and Rs. 50,000/- for District level event.	50% of cost on actual basis for private agency and 100% for NHB's own events.
Scheme No. 04	Horticulture Promotion Services and Establishment /strengthening of NHB"	Project based as per actual cost	By Central Nodal Agency
New Schemes/Initiatives			
Scheme No. 05	Cluster based Development of Horticulture to enhance global competitiveness of the sector	As per the guidelines of Cluster Development Programme	As per the guidelines of Cluster Development Programme
Scheme No. 06	Clean Plant Programme	As per the guidelines of Clean Plant Programme	As per the guidelines of Clean Plant Programme
Scheme No. 07	BHARAT GAP	As per the guidelines of BHARAT GAP	As per the guidelines of BHARAT GAP

Norms for Technology Add on components and other essential components of Integrated Commercial Horticulture projects (Applicable only wherever MIDH cost norms are not available)

S. No.	Item	Description	Admissible Cost Revised
	Cut off date for implementation		
I	Cost of Land*#	Admissible only if purchased newly but not before one year from date of sanction of loan.	Actual or up to 10 % of Eligible Project Cost (EPC) (Excluding cost of Land and Development) whichever is less subject to maximum of Rs. 60,000/- per acre.
I(i)	Land Development*#	Includes cost of Land leveling, digging of pits, fencing, gates etc.	Actual or up to 15% of Eligible Project Cost (EPC) (Excluding cost of Land and Land Development) whichever is less subject to maximum of Rs. 60,000/- per acre.
II	Cultivation expenses*#	Includes cost of Planting material, cost of input (labour, fertilizer and manures, pesticides etc)	As per MIDH (NHM) cost norms on pro-rata basis
III	Drip system with internal pipeline	Component includes mainline, valve, backflow preventer pressure regulator, filter, tubing adapters and fittings, drip tubing, emitters and end cap	• Actual or Rs.24,000/-per acre for plant density up to 200 plants • Actual or Rs.30,000/-per acre for plant density >200 plants/acre
III (i)	Irrigation infrastructure excluding micro irrigation *#	Irrigation infrastructure like tube-well/bore well/open well, pipeline, water harvesting structure, water harvesting structure, water tank etc, admissible only if newly created with loan component	• Actual or upto Rs.60,000/-per acre for open field cultivation. • Rs.4.80 lakh per project in case of protected cultivation. Component-wise cost norms will be as under: 1. Tube-well – up to Rs. 3.00 lakh per unit 2. Water harvesting structure- @ Rs.100/- CuM with use of minimum 300 microns plastic films or RCC lining. 3. Cost of non lined ponds/tanks will be 30% less. Pipe line-Rs 150/- per running meter only from source (min. 4” diameter) of irrigation to production unit

IV	Horticulture Mechanization* # ##	- Power/hydraulic operated machine/tools including small farms tractor with rotavator/equipments etc. - Machineries Identified by NHB under farm mechanization component may be considered for subsidy in standalone mode	As per SMAM Norms
V	Civil Infrastructure *	Includes Functional Pack House/ On farm collection unit and labour quarter	1. Functional Pack house @ Rs. 4.80 Lakh/unit with size of 9 x 6 Meter (Prorate basis for lower size) 2. Labour Quarter/Storeroom @ Rs. 24,000/- per acre maximum up to 3.60lakh. Cost norm as per pack house
VI	Vermi Compost unit * #	Permanent structure and HDPE vermibed	Rs.72,000/-per unit for permanent structure and Rs.12,000/-for HDPE vermibed 96cft (12'x4'x2') and ISO 15907:2010
VII	Certification for Good Agriculture Practice (GAP), including infrastructure* ##		Rs.4800/-per acre.
VIII	Support system for Grapes (trellis, telephone, bawar and other system etc. *	Permanent structure made up of MS angles and stainless-steel wire.	Rs.1,80,000/-per acre
IX	Plastic Mulching * ##		Rs.15360/-peracreandRs.17675/-acre for Hilly States

X	Bed Preparation Cost in the cases requiring Soil replacement #	Protected Cultivation projects only in cases involving removal and replacement of top soil by red soil or cultivation is done on media/Pots/Concrete bed	Rs.120/-per Sq. m.
---	--	--	--------------------

Cost norms for Protected cultivation under NHB Scheme:

Cost Rs. Lakh per acre

SN	Crop	Cost of Poly house with drip & fogger system	Cost Cultivation	Cost ceiling per acre with add on components in project mode	Cost of Poly house with drip & fogger system	Cost of Cultivation	Cost ceiling per acre with add on components in project mode
		Admissible Cost (Present)			Admissible Cost Revised		
1	Anthurium & Orchid	33.76	28.00	70.00	As per component based cost norms of MIDH and NHB guidelines	As per component based cost norms of MIDH and NHB guidelines	80.00
2	Rose, Lilium, Chrysanthemum	33.76	17.04	60.00			70.00
3	Carnation & Gerbera	33.76	24.40	66.00			75.00
4	Hi-Value vegetable under poly house	33.76	5.60	47.00			55.00

Components categorization:

*Commercial Horticulture, within overall cost ceiling

#Protected Cultivation, within overall cost ceiling

Over and above overall cost ceiling

Annexure VII

COST NORMS AND PATTERN OF ASSISTANCE FOR COCONUT DEVELOPMENT BOARD (CDB)

S. No.	Item	Cost Norms	Pattern of Assistance
A	Normal schemes		
A.1.	PRODUCTION OF QUALITY PLANTING MATERIAL		
a.	Demonstration cum- Seed Production Farm (DSP)		
i.	Setting up new DSP Farms	Rs. 30.00 lakh / farm	100% to CDB
ii.	Maintenance of seven old DSP Farms with nurseries (To be renamed as 'Maintenance of existing DSP Farms')	Max. Rs.1.00 lakh per ha/year from 3 rd year onwards till yield stabilization (15 to 20 years)	100% to CDB
b.	Establishment of Regional Coconut Nurseries (To be renamed as 'Assistance for quality planting material production in Public Sector nurseries')	Rs. 40.00 per seedling	50% of cost
c.	Distribution of hybrids/dwarf seedlings in Govt. / Private Sector	Rs. 36.00 per seedling	25% of cost, for a maximum of 25,000 seedlings/ acre
d.	Establishment of Nucleus Coconut Seed garden	Rs. 7.2 lakh per ha for a maximum of 4 ha	25% of cost to a max. of Rs. 20 lakh for 4 ha
e.	Establishment of Small Coconut Nursery	Rs. 90/- per seedling (max.)	100% of cost for Public sector and 50% for Private sector
f.	Accreditation and rating of coconut nurseries	Max. Rs. 1.50 lakh for a nursery of annual production capacity of min. 20,000 seedlings	100% of cost for Public sector and for Private sector
A.2	Expansion of Area under coconut	Rs. 1.60 Lakh/ha	Assistance @ 25% of the cost for an area upto 4 ha. per beneficiary, in 2 equal installments.
A.3.	Comprehensive programme for sustainable productivity improvement in existing coconut holdings		
a.	Productivity Improvement through Coconut Based Cropping system	Rs. 42,000/ha	40 % of the cost subject to a max. of 4 ha in general 50 % of the cost subject to a max. of 4 ha for higher cost norm areas as per MIDH norms.

S. No.	Item	Cost Norms	Pattern of Assistance
b.	Creation of water resources in coconut gardens		
	i. by individual farmers	As per NHM norms followed under MIDH	As per NHM norms followed under MIDH
	ii. On community basis	As per NHM norms followed under MIDH	As per NHM norms followed under MIDH
A.4.	Technology Demonstration / Quality Testing lab	As per Soil Health Card scheme	100% to CDB
A.5.	Market intelligence & Research, Product & Brand Promotion and Export Promotion services	On need basis, max. Rs. 50.00 lakh per project	100 % to CDB
A.6.	Capacity Building, Training & Awareness programmes and Information Technology	On need basis, max. Rs. 50.00 lakh per project	100 % to CDB
A.7.	Establishment, Infrastructure development & Technical Support Services)	On need basis	100 % to CDB
B.	Technology Mission on Coconut		
B.1.	Management of insect pests and disease affected gardens		
a.	Development/ Demonstration of technologies	On project basis	100 % cost to public sector to a max. of Rs. 50.00 lakh
b.	Adoption of technologies	On project basis (Max. Rs. 1.00 lakh per ha)	25 % of the cost (Rs. 0.40 lakh per ha), on pro-rata basis
B.2.	Processing and product diversification"		
a.	Development/ Acquisition/ training/ demonstration of technologies	On project basis	100 % cost to public sector to a max. of Rs. 100.00 lakh
b.	Adoption of technologies	On project basis	Back-ended credit capital subsidy limited to 25 % of the project cost in general and 50 % for higher cost norm areas as per MIDH norms and FPOs To a maximum of Rs. 300.00 lakh
B.3.	Technical support external evaluation & emergent requirement	Project basis	On need basis
C.	Replanting & Rejuvenation of old coconut garden		
a.	Cutting & removing old / senile palms	Rs. 32000 per ha	@ Rs. 1000/palm limited to 32 palms / ha
b.	Assistance for replanting incl. gap filling	Rs.96/- per seedling	50% of cost subject to maximum of Rs.4000 / ha.

S. No.	Item	Cost Norms	Pattern of Assistance
c.	Improvement of existing coconut gardens through integrated management practices.	Rs. 70,000 / ha	25% of cost in two equal installments.
D.	Coconut Palm Insurance Scheme	As per Fasal Bima Yojana	As per Fasal Bima Yojana
E	Kera Suraksha Insurance Scheme	As per Fasal Bima Yojana	As per Fasal Bima Yojana

Annexure VIII

NATIONAL BAMBOO MISSION (NBM)

S. No.	Item	Cost Norms*	Pattern of assistance#
A	A. Propagation & Cultivation		
1	Bamboo Nursery both in public and by private sectors including strengthen of existing (project based)		
i	Hi-tech (2 ha)	Rs. 60 Lakhs/Unit	100% of cost to Govt. sector and in case of private sector credit linked back ended assistance @ 50% of cost.
ii	Big (1 ha)	Rs. 20 Lakhs/Unit	
iii	Small (0.5 ha)	Rs. 10 Lakhs/Unit	
iv	New Tissue Culture Unit	Rs. 250 Lakhs/Unit	Assistance @ 100% to public sector and in case of private sector, credit linked back-ended assistance @ 40% as project based activity. Each TC unit will produce a minimum of 10 lakh plants/year or on pro rata basis for higher capacity upto 25 lakh plants/unit of mandated crops, duly hardened, for which protocols are available for commercial use. Accreditation of each TC lab will be mandatory within 18 months from the date of receipt of last instalment.
v	Raising of Saplings in existing government TC nursery	Rs 35/- per sapling per year	100% of cost to Govt. sector.
vi	Raising of Saplings in existing government Non-TC	Rs 20/- per sapling per year	
2	Plantation (Using planting material from the accredited/approved nurseries)	Rs. 1.20 Lakhs per ha (equivalent to Rs. 300 per plant)	100% of cost to Govt. sector. For private sector 50% of the cost upto 10 Ha over 2 years (60:40). Additional 10% assistance for NE States. For plantation above 10 ha no subsidy will be provided. Plantation may also be carried out by FPOs formed as per the guidelines of the scheme of DAC & FW 'Formation of 10,000 FPOs' as well as the existing FPOs. For FPOs, maximum 10 Ha per individual

			member may be taken up.
3	Integrated Plantation with drip irrigation facility (using planting material from the accredited nurseries)	Rs 1.20 Lakhs per ha (equivalent to Rs. 300 per plant) + cost of drip irrigation (norms of PMKSY-PDMC).	100% of cost to Govt. sector. For private sector 50% of the cost upto 10 Ha over 2 years (60:40). Additional 10% assistance for NE & Himalayan States. For plantation above 10 ha no subsidy will be provided. Plantation may also be carried out by FPOs formed as per the guidelines of the scheme of DAC & FW 'Formation of 10,000 FPOs' as well as the existing FPOs. For FPOs, maximum 10 Ha per individual member may be taken up.
4	Stock Improvement	Rs. 30,000 per ha	For Government 100%. For private 50% limited to 2 ha per beneficiary for private sector and no area limit for Govt. sector.
B	Primary Processing and Aggregation#	Project Based	100% of cost to Govt. sector and in case of private sector credit linked back ended assistance @ 50% of cost. Additional 10% assistance for NE States.
C	Innovative Interventions including manufacturing units##	Project Based	100% of cost to Govt. sector and in case of private sector credit linked back ended assistance @ 50% of cost. Additional 10% assistance for NE States.
D	Promotion and Development of Infrastructure for Bamboo Market\$	Project Based	100% of cost in Govt. sector. 25% assistance in private sectors subject to maximum upto indicative cost. (33% for private sector to North Eastern States)
E	Development of tools, equipment & machinery		
1	Technological enhancement of indigenous tools, equipment & machinery	Project based	100% grant to Govt. institutions for development of design etc., 50% grant to those machine making units who are developing these machines
2	Import of technological superior tools, equipment & machinery in Common Facility Centre	Project based	100% grant to Govt. institutions for development of design etc., 50% grant to those machine making units who are

			developing these machines
3	Centre of Excellence in thematic areas of the bamboo value chain including through bilateral cooperation	Project Based (upto 10 Cr)	100% cost to public sector. This can be established through bi-lateral co-operation also.
F	Skill Development		
	Training of Farmers/Artisans/field functionaries/International training / visit for exposure of NBM staff/ field functionaries including farmers and entrepreneurs in bamboo sector to upcoming technologies/ Entrepreneurs Training	Project Based	As per approved rates for the premier training institutions /Sector Skill Councils under Skill India program. 100% to Public Sector
G	IEC. (Information, Education & Communication)	Project Based	100% for Govt.
H	Research & Development of Bamboo Value Chain		
1	Mapping of resource base, market survey, certification, R&D, Bamboo construction & product design	Project based	For private sector upto 10 lakhs. 100% for Government organizations
2	Maintenance of Bamboo setum for locational trials of commercially important species	Project based	100 % for Government Sector
3	Bamboo based Business Incubation Centre Innovations in Bamboo /Design Development/ Product Based Technology Development	Project based	100 % for Government Sector
I	Project Management (upto 2.5% of allocation)		
i	State/ BTSG Level :- Project management contingency Monitoring & Evaluation	Proposal based	Upto 2.5%
ii	National Level	Proposal based	
J	Technical Cooperation (National Level) with International Agencies like FAO, World Bank, ADB, UNIDO Bilateral Cooperation, International Exposure Visit/ trainings of officials	Project Based (On actual cost basis)	100% Cost

includes components like establishment of bamboo treatment and seasoning plants, bamboo depots and godowns, Common Facility Centre

includes components for value addition, handicrafts/cottage industries, lifestyle products, furniture, jewellery, bamboo food processing, incense sticks, charcoal/biochar, beauty and wellness products. Scaling up of emerging technologies, upgradation of existing units, fibre/fabric extraction, engineered bamboo products, compressed bio-energy, activated charcoal, bamboo pellets, granules, composite and molded products.

\$ Includes components like bamboo mandi, e trading, bamboo bazaar, rural haats/retail outlets, bamboo construction.

List of National Level Agencies of MIDH

National Horticulture Board (NHB), Gurgaon

NHB will implement programmes as sub-scheme of MIDH. NHB will also house the national level TSG besides the TSG for NHM, HMNEH and NBM and extend administrative, logistical and personnel support towards the implementation of NHM, HMNEH and NBM. Details about NHB are available on its web site (www.nhb.gov.in).

Coconut Development Board, Kochi

CDB will implement programmes as sub-scheme of MIDH. It will also house the TSG for coconut related programme. Details about CDB are available on its web site (www.coconutboard.nic.in).

Small Farmer's Agri-Business Consortium (SFAC), New Delhi

Small Farmers Agri-business Consortium (SFAC) (www.sfacindia.com) will provide necessary handholding with regard to the NE and Himalayan States. It will be lead agency for the formation of Farmers' Associations/Groups and their tie-up with financial institutions and market aggregators. It will also house the TSG for HMNEH, CIH and VIUC schemes.

Directorate of Cashew and Cocoa Development (DCCD), Kochi

DCCD(www.dccd.gov.in) will be responsible for implementing, coordinating and monitoring activities relating to plantation crops, excluding coconut and arecanut and will also be responsible for organizing National level training programmes, seminars & workshops on cashew and cocoa on regular intervals.

Directorate of Arecanut and Spices Development (DASD), Calicut

DASD will be responsible for implementing, coordinating and monitoring the activities on development of arecanut, spices, and aromatic plants and will be responsible for organizing National level training programmes, seminars and workshops on Arecanut, spices and medicinal & aromatic plants on regular intervals.

National Committee on Precision Agriculture & Horticulture (NCPAH), New Delhi

NCPAH(www.ncpahindia.com) will be responsible for coordinating and monitoring activities relating to micro irrigation, precision farming and hi-tech horticulture implemented through SHMs and Precision Farming Development Centres (PFDCs).

National Horticulture Research & Development Foundation, Nashik

National Horticulture Research & Development Foundation (NHRDF), Nashik (www.nhrdf.com) will be responsible for implementing programmes relating to development of vegetables including production and supply of quality seeds.

National Bee Board (NBB)

National Bee Board (NBB)(www.nbb.gov.in) will be responsible for providing technical support as well as implementation of promotional programmes relating to beekeeping.

National Seeds Corporation, New Delhi

National Seeds Corporation (NSC) (www.indiaseeds.com) will be responsible for taking up programmes for production and supply of good quality seed and planting material.

National Research Centre for Citrus, Nagpur

National Research Centre for Citrus (NRCC), Nagpur (www.nrccitrus.nic.in) will be implementing the mission mode programme on Technology Mission on Citrus.

Hindustan Insecticides Ltd. (HIL)

HIL (www.hil.gov.in) will be responsible for production and supply of good quality vegetable seeds.

National Institute for Agricultural Extension Management (MANAGE), Hyderabad

MANAGE (www.manage.gov.in) will be responsible for taking up HRD related programme for training field functionaries under NHM and HMNEH.

Agricultural and Processed Food Products Export Development Authority (APEDA), New Delhi

APEDA, (www.apeda.gov.in) Ministry of Commerce will be involved in promoting coordinated development of Agri-Export Zones (AEZ) for horticultural crops and coordinate with MIDH, for promoting export of horticulture crops.

Directorate of Marketing & Inspection (DMI), New Delhi

DMI will be responsible for providing market intelligence and monitoring of programmes relating to marketing of horticulture crops (www.agmarknet.nic.in).

Ministry of Food Processing Industries (MFPI), New Delhi

MFPI (www.mofpi.nic.in) will extend its support to establishment of Food Processing units in clusters promoted in MIDH and offer its technical support and assistance, especially in HMNEH areas.

National Medicinal Plants Board (NMPB), New Delhi

NMPB (www.nmpb.nic.in) would implement its scheme relating to development of medicinal plants in coordination with NHM.

National Centre for Cold Chain Development (NCCD)

NCCD (<http://nccd.gov.in>) will guide policy and set standards for development of integrated cold chain in the country, for perishable fruits, vegetables and other allied agricultural commodities to link with markets and also work in close collaboration with industry and other stake holders.

Fresh & Healthy Enterprises Ltd. (FHEL), New Delhi

FHEL (www.fhel.co.in) will be responsible for carrying out feasibility studies and preparing DPRs for integrated cold chain for horticulture commodities, involving long distance haulage by Railways.

Directorate of Marketing & Inspection (DMI), New Delhi

DMI will be responsible for providing market intelligence and monitoring of programmes relating to marketing of horticulture crops (www.agmarknet.nic.in).

Spice Board

Spices Board will extend its support for the development and worldwide promotion of Indian spices.

All ICAR Horticulture Institutes

They will assist to undertake basic, strategic, anticipatory and applied research to enhance productivity, quality, utility and sustainability of fruits, vegetables, ornamentals, medicinal crops and mushroom.

Manalanobis National Crop Forecast Centre (MNCFC), PUSA, New Delhi

MNCFC will assist for applications of space and geospatial technology in various domains of agriculture.

Krishi Vikas Sahakari Samiti Limited (KVSSL), Gurugram, Haryana

KVSSL will assist to intensify research and create agro inputs that are bio- degradable, eco-friendly, safe to use to increase the yield and protecting the crop. It will also guide the farmers regarding use of Agri-inputs to grow crops more effectively and efficiently.

National Centre for Organic and Natural Farming (NCONF), Ghaziabad, UP

NCONF will assist in promotion of chemical free agricultural systems like organic, natural, regenerative etc, farming in the country through capacity building of stakeholders

National Institute of Plant Health Management (NIPHM),

NIPHM will assist to promote sustainable horticulture by focusing on plant health management in fruits, vegetables, and plantation crops.