

OPERATIONAL GUIDELINES

Schemes of National Horticulture Board



सत्यमेव जयते

**National Horticulture Board
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NATIONAL HORTICULTURE BOARD

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PREFACE

India's horticulture production currently nearing 280 million ton a year, has not only brought prosperity to small and marginal farmers but also provided food and nutritional security to the Nation. Ranked as the second largest producer of Fruits & Vegetables in the world, horticulture in India has today emerged as one of the most important sectors for diversification in agriculture. NHB's contribution in this direction has been multidimensional: supporting the farmers and the entrepreneur to face challenges of globalised markets with improved production, post harvest management and value addition through its broad based entrepreneur driven innovative schemes since the year 1999-2000.

After the launch of Mission for Integrated Development of Horticulture (MIDH) since April 2014, it became imperative for NHB to re-position itself and assume a new role to accelerate planned development of Commercial Horticulture sector. To achieve this, schemes of NHB have been modified to generate synergy with other sub-schemes of MIDH and fulfill the aim of development of horticulture sector by removal of overlap. It may be noticed that while a number of existing scheme components continued to be operational with necessary modifications, the Govt has approved higher level of subsidy of 40 % for open field cultivation and 50 % for protected cultivation to maintain parity with the schemes of NHM under MIDH.

The present compendium of NHB Schemes with revised and simplified procedures with regard to Letter of Intent (LOI) and Release of Subsidy (Advance / final) have been designed to serve the entrepreneur more effectively. Several attractive interventions such as Simplified application form with minimal documents, voluntary LOI system, relaxation from mandatory credit-linkage in certain cases, release of 100% estimated subsidy in advance, attractive Cost Norms and Pattern of Assistance, reduced area restriction for open field cultivation etc are some of the salient features of the new schemes. The ongoing schemes of Development and Transfer of Technology, Horticulture promotion and Market Information System have been made more focussed.

The new operational guidelines of NHB are effective from 1st April 2014. It is expected that these schemes will lead to increased productivity and improved post-harvest management and marketing with emphasis on quality which in turn will encourage entrepreneurship in every aspect of horticulture including exports.

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Managing Director

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CONTENTS

S.No.	Description	Page No.
	Introduction of NHB, List of Schemes, Aims and Objectives of Schemes	1-2
	General Guidelines for all the Schemes	3
(I)	Scheme-1:	4-5
	Development of Commercial Horticulture through Production and Post-Harvest Management of horticulture crops	
(II)	Scheme 2:	6-7
	Capital Investment Subsidy Scheme for construction/	
	Expansion /modernization of Cold Storages/Storage of Horticulture Produce	
(III)	Scheme 3:	8-13
	Technology Development and Transfer for Promotion of Horticulture	
(IV)	Scheme 4:	14
	Market Information Service Scheme for Horticulture Crops	
(V)	Scheme 5:	15-17
	Horticulture Promotion Service/expert services and strengthening capability of NHB.	
	Details of Chapters	18
	CHAPTER-I:	19-21
	Guideline for making application for assistance under the commercial horticulture (Scheme No.1)	
	CHAPTER-II:	22-25
	Guideline for making subsidy claim and release of subsidy under the Cold Storage Scheme (Scheme No.2) of NHB	
	CHAPTER-III:	26
	Guideline for Inspection/Joint Inspection Project on Completion	
	CHAPTER-IV: FORMATS	27-72
	CHAPTER-V: Cost Norm and Pattern of Assistance	73-87
	LIST OF NATIONAL HORTICULTURE BOARD OFFICES	88-89

National Horticulture Board

1. Introduction

National Horticulture Board (NHB) was set up by the Government of India in 1984 as an autonomous society under the Societies Registration Act 1860. Board has its Head Quarters in Institutional Area, Sector 18, Gurgaon (Haryana).

The Managing Director is the Principal Executive of NHB who implements various schemes under overall supervision and guidance of the Board of Directors of NHB as well as the Department of Agriculture & Co-operation, Ministry of Agriculture, Govt. of India.

1.1 List of schemes administered by NHB

National Horticulture Board implements programmes as sub-scheme of Mission for Integrated Development of Horticulture (MIDH). NHB will also house the national level TSG under MIDH including NHM and NBM and extend administrative, logistical and personnel support towards their implementation. List of NHB schemes are given as under:-

- (i) Development of Commercial Horticulture through Production and Post Harvest Management of Horticulture Crops
- (ii) Capital Investment Subsidy Scheme for construction/ expansion/ modernization of Cold Storages/Storages of Horticulture Products
- (iii) Technology Development and Transfer for promotion of Horticulture
- (iv) Market Information Scheme for horticulture Crops
- (v) Horticulture Promotion Services / Expert Services

Cost norms and pattern of assistance for the above mentioned schemes are given in Annexure-III

1.2 Aims & Objectives of NHB Schemes

The broad aims & objectives of all the above mentioned schemes are as under :-

- (i) Development of hi-tech commercial horticulture in identified belts and make such areas vibrant with horticultural activity, which in turn will act as hubs for development of horticulture
- (ii) Development of modern post-harvest management infrastructure as an integral part of area expansion projects or as common facility for cluster of projects
- (iii) Development of integrated, energy efficient cold chain infrastructure for fresh horticulture produce,
- (iv) Popularization of identified new technologies / tools / techniques for commercialization / adoption, after carrying out technology and need assessment
- (v) Assistance in securing availability of quality planting material by promoting setting up of scion and root stock banks / mother plant nurseries and carrying out accreditation / rating of horticulture nurseries and need based imports of planting material.
- (vi) Promotion and market development of fresh horticulture produce.
- (vii) Promotion of field trials of newly developed/imported planting materials and other farm inputs; production technology; PHM protocols, INM and IPM protocols and promotion of applied R&D programmes for commercialization of proven technology.

- (viii) Promotion of Farm Mechanization in Horticulture through demonstration and its uses at farmers field level to reduce labour cost and increase the productivity of Horticulture crops.
- (ix) Promotion of applied R & D for standardizing PHM protocols, prescribing critical storage conditions for fresh horticulture produce, bench marking of technical standards for cold chain infrastructure etc.,
- (x) Transfer of technology to producers/farmers and service providers such as gardeners, nurserymen, farm level skilled workers, operators in cold storages, work force carrying out post harvest management including processing of fresh horticulture produce and to the master trainers.
- (xi) Promotion of consumption of horticulture produce and products.
- (xii) Promoting long distance transport solution for bulk movement of horticulture produce through rail etc.,
- (xiii) Carrying out studies and surveys to identify constraints and develop short and long term strategies for systematic development of horticulture and providing technical services including advisory and consultancy services.

General Guidelines for all the Schemes

2.1 Procedure for filing applications

Detailed procedure for filing applications for financial assistance under all schemes, including on-line applications, cost of application, inspection of projects, scrutiny norms and procedure for scrutiny of project proposals, communication of various sanctions and approvals and record keeping shall be as prescribed by the Board of Directors/Managing Committee from time to time.

2.2 Procedure for sanction of financial assistance

Sanction of financial assistance as per approved norms shall be carried out as per the procedure prescribed by the Board of Directors/ the Department of Agriculture and Cooperation, Ministry of Agriculture, Govt. of India from time to time. The procedure for sanction of financial assistance under various schemes is given in the respective chapters.

2.3 Date of coming in to force: The Scheme guidelines shall be effective from 01.04.2014.

2.4 Eligible Organizations: -

Unless otherwise specified, organizations/promoters, such as Association of Growers, Individuals, group of farmer growers/consumers, Farmers Producer Organizations (FPOs,) Partnership/ Proprietary Firms, Self Help groups (SHGs), NGOs, Companies, Corporations, Cooperatives, Co-operative Marketing Federations, Agricultural Produce Marketing Committees, Marketing Boards/ Committees, Municipal Corporations/ Committees, Agro-Industries Corporations, SAU's and other concerned R&D organizations are eligible to get assistance under all the NHB schemes.

2.5 Pattern of Assistance

The details of components and pattern of assistance under various schemes are given in their respective Chapters. However eligible subsidy amount will be capped at par with amount of term loan. The changes in pattern of assistance, cost norms, eligibility, procedure for scheme implementation etc approved by government now onwards shall be incorporated in the guidelines from time to time. The schemes of NHB and other schemes of MIDH including NHM will be mutually exclusive and benefit can be claimed only from one scheme for one project. Components, which are assisted under any other sub-schemes of MIDH or other central scheme, such as APEDA, MFPI, NMPB etc., shall not be eligible for NHB assistance.

2.6 Cost Norms

The cost norms are intended to incentivise investment in certain areas and relate only to admissible items in a project. Moreover, cost norms (Chapter-V; Pages 75-89) are not to be understood as a funding mechanism for the projects.

2.7 Legal

Any dispute will be subject to Jurisdiction of Gurgaon court only.

SCHEME-1

1. Development of Commercial Horticulture through Production and Post Harvest Management of Horticulture Crops

Credit linked projects relating to establishment of commercial production units in open field as well as under protected conditions and projects on Post harvest Management and primary processing of products are eligible for assistance under this scheme as per cost norms given in Annexure- III. However, release of Subsidy need not be credit linked in North Eastern States and for the institutions like Public Sector Units, Panchayats, cooperatives, registered societies/trust and public limited companies provided they can meet remaining share of the project cost out of their own resources. Such projects will have to be appraised by appraising agency approved by NHB.

Description of components and Pattern of Assistance

1.1 Commercial Horticulture Development in open field conditions on project mode

National Horticulture Board will take up integrated commercial horticulture development projects in open field conditions on project mode, including components viz planting material, plantation, irrigation, fertigation, mechanization, precision farming, GAP etc. for projects covering area over 2.00 ha. (5 Acres) Integration of production unit with on farm PHM components and primary processing unit shall also be allowed in project mode. Cost of raising new plantation will vary from crop to crop, which will be taken into consideration while providing assistance to the beneficiary. Integrated production unit on Mushroom and tissue culture shall also be eligible for assistance under this component. The components like farm machinery and PHM infrastructure, irrigation and micro irrigation etc shall be eligible under the scheme for assistance in existing/new orchards/projects to increase productivity.

Pattern of assistance

Credit linked back-ended subsidy @ 40% of the total project cost limited to Rs 30.00 lakh per project in general areas and @ 50% of project cost limited to Rs. 37.50 lakh in NE Region, Hilly and Scheduled areas.

1.2 Commercial Horticulture Development in protected cover on project mode

The Board will also take up commercial horticulture development projects under protected cover on project mode including components viz planting material, plantation, irrigation, fertigation, mechanization, etc for projects having area over 2500 sq meter. Activities like construction of green houses, shade net house, plastic mulching, and plastic tunnel, anti bird /hail nets etc would be promoted. Provision has been made for selecting a variety of construction material for green houses and shade nets houses. Preference will be given to using locally available material to minimize cost of construction of such structures. However, for availing subsidy, all material /technology should conform to prescribed standards.

Pattern of assistance

Credit linked back-ended subsidy @ 50% of the total project cost limited to Rs 56.00 lakh per project as per admissible cost norms for green houses, shade net house, plastic tunnel, anti bird /hail nets & cost of planting material etc.

1.3 Integrated Post Harvest Management projects

The Board will take up Integrated Post Harvest Management projects relating to Pack House, Ripening Chamber, Refer Van, Retail Outlets, Pre-cooling unit, Primary processing etc. NHB will also take up projects in component mode and for standalone projects of PHM components.

Pattern of assistance

Credit linked back-ended subsidy @ 35% of the total project cost limited to Rs 50.75 lakh per project in general area and @ 50 % of project cost limited to Rs. 72.50 lakh per project in NE , Hilly and Scheduled areas.

1.4 General conditions

- I. Credit component as means of finance of the project should be term loan from banking or non banking financial institutions. For credit linked projects under NHB, eligible subsidy amount to be capped at par with term loan sanctioned by the lending Banks/FI
- II. Normative cost of various components shall be prescribed by NHB.
- III. Benefit of exclusive components of cold storage scheme shall also be available to the promoters over and above the assistance that will be provided under Commercial Horticulture Scheme to set up integrated projects for production and PHM components.
- IV. Projects relating to setting up of new units shall be technically and financially appraised to ensure and enable entrepreneur to incorporate latest available technology.
- V. Assistance can also be availed for a combination of PHM infrastructure components by a beneficiary, within the prescribed norms of individual items.

1.5 Detailed instructions for making application and other relevant information are given at Chapter-I (Pages 19 to 26 of this booklet)

SCHEME-2

2. Capital Investment subsidy scheme for construction/expansion/ modernization of cold storage and storages for Horticulture Products

2.1 Description of components and Pattern of Assistance

Components: Credit linked projects relating to Cold Storages including Controlled Atmosphere (CA) and their modernization are eligible for assistance under this component. Subsidy need not be credit linked for the institutions like Public Sector Units, Panchayats, cooperatives, registered societies/trust and public limited companies provided they can meet remaining share of the project cost out of their own resources. Such projects will have to be appraised by appraising agency approved by NHB.

2.2 Pattern of Assistance: -

The assistance will be given as subsidy @ 35% of the capital cost of project in general areas and 50% in case of NE, Hilly & Scheduled Areas for a storage capacity above 5000 MT up to 10000 MT.

2.3 Calculation of Capacity for subsidy:-

For calculation of capacity, 3.4 cubic meters (cum.) (120 cubic feet (cft.) of chamber volume shall be considered equivalent to 1 MT storage capacity.

2.4 Description of components and Cost Norms

SN	Description	Cost Norms
1	Cold storage units Type 1 - basic mezzanine structure with large chamber (of > 250 MT) type with single temperature zone.	<ul style="list-style-type: none"> @ Rs. 8000/ MT for capacity upto 5000 MT @ Rs. 7600/ MT for capacity between 5001 to 6500 MT. @ Rs. 7200/MT for capacity between 6501 to 8000 MT. @ Rs. 6800/MT for capacity between 8001 to 10000 MT.
2	Cold storage units Type 2 – Pre Engineering Building (PEB) Type for multiple temperature and product use , more than 6 chambers of <250 MT) and basic material handling equipment	<ul style="list-style-type: none"> @ Rs.10000/ MT for capacity upto 5000 MT @ Rs. 9500/ MT for capacity between 5001 to 6500 MT. @ Rs. 9000/MT for capacity between 6501 to 8000 MT. @ Rs. 8500/MT for capacity between 8001 to 10000 MT.
3	Cold Storage Units Type 2 with add on technology for Controlled Atmosphere	Additional Rs. 10,000/MT for add on components of controlled atmosphere technology as per component wise cost (Appendix- 1-D)
4	Technology induction and modernization of cold-chain	<ul style="list-style-type: none"> @ Rs. 5000/MT, for capacity between 5001 to 10000 MT. Components of modernization includes PLC equipment, packaging lines, dock levelers, advanced graders, alternate technologies, stacking system, modernization of insulation and refrigeration etc. Details are in Appendix-1-D.

2.5 General conditions for cold storage projects

- For credit linked projects, credit components as means of finance of the project should be term loan from banking or non banking financial institutions. For credit linked projects under NHB, eligible subsidy amount to be capped at par with term loan sanctioned by the lending Banks/FI.

- ii. Assistance for setting up of new Cold Storage infrastructure will be available only to Multi-Chamber cold Storage units with technologies which are energy efficient with provision of thermal insulation, humidity controlled, advance cooling systems, automation, etc, having specification and standards approved by the Ministry. To ensure, compliance of notified standards, all projects will be subjected to technical scrutiny by NHB empanelled Technical appraisal agency.
- iii. Extant specifications standards and protocols on cold storage and cold-chain components will be adhered to while approving cold storage projects.

2.5 Detailed instructions for making application and other relevant information are given in Chapter-I (Pages 19 to 26 of this booklet)

SCHEME-3

3. Technology Development and Transfer for Promotion of Horticulture

Projects for popularization of identified new technologies/tools/techniques for commercialization/ adoption shall be undertaken through following sub-components of the scheme

3.1 Components

- i. Setting up of block/mother plant and root stock nursery (Area above 4 ha)
- ii. Acquisition of technologies including import of planting material from other countries for evaluation and mass multiplication in order to increase production & productivity of horticulture crops
- iii. Import/procurement of machines and Tools for horticulture for demonstration purpose
- iv. Development & Transfer of Technology
- v. Long Distance Transport Solution
- vi. Product Promotion and Market Development Services- Horti-fairs
- vii. Exposure visit of farmers (Outside State)
- viii. Visit Abroad for Government Officers
- ix. Organization/Participation in Seminar/symposia/workshop for development of horticulture
- x. Accreditation and Rating of Fruit Plant Nurseries

3.2 Description of components and pattern of assistance

3.2.1 Setting up of block /mother plant and root stock nursery (Area above 4 ha)

Implementation and pattern of assistance

This activity is for Setting up Mother Blocks and Bank for Root Stock and Scion / bud stick of higher pedigree for making the same available to commercial nurseries for raising mother trees on their commercial nursery and also for multiplication and sale to farmers.

- i. Components includes mother block of scion and root stock, infrastructure for production of disease free planting material, creation of poly house, green house, net house, screen house, mist chamber, hot beds sterilization of media, working shed, tissue culture lab, referred lab, virus indexing facility, quality control lab, weather station, water supply, irrigation facility, fertigation unit, electric supply with generator, ETP, farm equipment/farm mechanization, tools, portrays, root trainer, container, computer system for data management and analysis etc.
- ii. Projects under this component shall be appraised by NHB with the help of a committee of experts and should be linked with future area expansion plan under government schemes.
- iii. Crop & variety specific modern mother plant nurseries shall be managed by ICAR Institutes/ NRCs, SAUs or public sector agency.
- iv. Institution(s) willing to set up mother plant nursery for any crop / crops should apply along with Detailed Project Report.
- v. Applicant organization will have to bear capital cost on account of land, staff component, water & electricity consumption and annual maintenance etc. NHB would provide 100% cost of nursery infrastructure, plant health management system, procurement of planting material

of breeder and foundation seed grade and plantation and initial input. To begin with, planting materials for major crops like citrus, mango, apple, stone fruits, guava, litchi, sapota, aonla, pomegranate etc. will be given priority.

Pattern of assistance:- Project based – 100% and only through Govt. agency/Public Sector @ Rs.100.00 Lakh /ha for effective nursery area including virus indexing, tissue culture lab etc.

3.2.2. Acquisition of technologies including import of planting material from other countries for evaluation and mass multiplication in order to increase production & productivity of horticulture crops

This components aims to acquire technologies either nationally or globally that have been developed in the area of horticulture or which can be commercialized to put for farmers/industry benefit. This will also include assistance for meeting cost of Import of best quality planting material of latest varieties of horticultural crops has been included.

Pattern of assistance:- Rs.50.00 lakh/project. Project based – 100% and only through Govt. agency/ PSUs.

3.2.3. Import/Procurement of Machines and Tools for horticulture for demonstration purpose

Horticulture mechanization is aimed to improve farm efficiency and reduce drudgery of farm work force. To promote Farm mechanization and introduce technologically advanced plants & machineries from abroad, NHB will provide assistance for importing new machines in the field operations areas of horticultural crops viz nursery/seedling preparation, post hole digging for planting, interculture, aeration, earthing, irrigation, plant protection, harvesting, handling, packaging transport etc.

Pattern of assistance:- Rs. 50.00 lakh/ machine. 100% of total cost and only through Govt. agency/ Public Sector. Proposals of Growers Associations promoted by NHB and Co-operative Societies and Farmers Producers Organisation may also be considered on merit as per direction of Board of Directors .

3.2.4. Development & Transfer of Technology

Following components will be considered:-

- I. Pilot project for introduction of new farm input and appropriate technologies etc. for promoting high quality commercial production or increase in productivity.
- II. Development and introduction of new protocol relating to Post Harvest Management, Cold Chain, Primary processing, Bio-technology and introduction of new tools/equipment/ machineries for PHM, Storage including Cold chain system and handling.
- III. R & D projects for solving specific problems related to production, PHM, Packaging, Storage, handling and transport could be considered on merit basis.

Pattern of assistance:- Up to Rs.25.00 lakh/ project as 100% of total cost and only through Govt. agency /PSU

3.2.5. Long Distance Transport Solution

Component has been introduced to facilitate long distance transportation and bulk movement of horticulture products through rail etc.

Pattern of assistance:- Project Based Rs. 2000.00 lakh

3.2.6. Product Promotion and Market Development Services- Horti-fairs

- i. To organize demonstrations of modern scientific techniques / technologies, package of production and PHM practices at suitable locations / areas by the NHB

- ii. To organize demonstrations of improved / high yielding varieties of fruits, vegetables, flowers, ornamental plants etc, by NHB

Implementation

- i. A committee of NHB shall examine such proposals
- ii. NHB will organize field demonstrations and display for product promotion and market development with or without the help of out-sourced agency / experts.
- iii. Demonstration for product promotion and market development by display of horticulture products and farm machinery & tools will be organized by NHB in the form of horticulture fairs, which shall provide the participants an opportunity to display and sale the exhibits. These events shall also provide opportunity to producer farmers to learn from one another's experience and performance. Selected horticulture-producer-farmers' associations and their self help groups who adopt prescribed production, PHM, packaging, storage and transportation technology under supervision of NHB or any public sector engaged in organizing farmers groups and so designated by NHB, shall be the Targeted Participants for such horticulture fairs. Similarly ICAR Institutions / SAUs and any other R & D Institution and manufacturer of farm machinery / tools / equipments relating to horticulture development may also be included in targeted participants by selecting them based on requirement of promoting the product intended to be promoted. Scheme Components of Technology Development and Transfer for promotion of Horticulture may be converged with such Horticulture Fairs organized by NHB. 'Targeted Participants' shall be encouraged to participate in horticulture fairs by providing them stall space for display of produce for sales and storage space for horticulture produce for participation in the event without rent or tariff for stall space and storage space. One-time assistance for trial use of recommended packaging material and transport of horticulture produce in technically recommended manner from production centre to place of horticulture fair may be given to targeted participants through their group / association or organizing public agency like ICAR Institution / SAU/ Marketing Boards/ Agro Industries Development Corporation, PSU / NERAMAC etc. Boarding & lodging in group on room sharing basis / dormitory in farmers' hostels run by ICAR institutions / SAU / APMC's etc. may be provided by NHB for first time participants from Targeted Participants' groups. Cost towards hiring of venue, stall preparations, decoration of exhibition place, public address system, security, lighting, water supply, ceremonial functions etc of event shall be borne by NHB under this component.

Pattern of assistance:- Rs. 25.00 lakh 100% of cost by Central Nodal Agency

3.2.7. Exposure visit of farmers (Outside State)

Purpose of visits

- i. To attend structured crop specific production, PHM, processing and marketing related farmers' training courses organized by NHB as per its annual action plan, with the help of ICAR institutions, SAUs, KVKs /ATMA Society and any other professional institutions such as MANAGE, NIFTEM, NIRD, HTC Pune, TERI, selected international organizations etc. Course shall be designed by NHB and training institution jointly, keeping in view training needs of the participants.
- ii. To expose groups of farmers to field demonstrations of technology organized by ICAR Institutions, SAUs, State Horticulture/Agriculture Directorates, etc. on their own farms or on farms of KVKs/ ATMA Societies, selected progressive farmers etc. The technology component to be demonstrated should be new and relevant to the group and must be specifically stated.
- iii. To participate in exhibitions within Country relating to horticulture production, PHM technology and to display their produce/equipment in stalls provided by NHB

- iv. To visit specialized wholesale, terminal markets, modern auction centres / processing unit / storage / PHM infrastructure, etc.
- v. To participate in exhibitions and horticulture fairs organized by NHB, crop specific National Research Centres for Horticulture Crops, ICAR Institutions, Agricultural/Horticulture Universities or Colleges / KVKs / State Directorates of Horticulture/State, PSUs or National Federations like IFFCO, NAFED, Marketing Boards, NEC, Industries Associations or registered and functional Growers Associations, etc.

Conditions for participation

- i) Selected farmer should be in the age group of 20 to 55 years. He/she should be cultivating the relevant horticulture crops on his own land or intend to establish horticulture farm/garden/industry.
- ii) Preference should be given to small, marginal and women farmers and beneficiaries of NHB, NHM, HMNEH and MIDH schemes.
- iii) Such farmers should be selected who are willing to share their experiences in workshops/seminars at District and State Level as resource persons.
- iv) One to two representatives of State department of Agriculture/Horticulture or SAU may accompany farmers' groups for the assistance of the visiting farmers.
- v) The maximum size of a training group may be, as decided by NHB in consultation with the training institute. However, it should not be of more than 30 farmers including Govt officers.
- vi) The selection of farmers to form group will be done by the State Govt. or NHB officer of the concerned State/UT's who may propose and organize such training / visits.
- vii) As far as possible, travel plan should be made through the shortest practically suitable route of mass public transport.

Pattern of assistance:- Project based as per actual 100% of the cost.

3.2.8. Visit Abroad for Government Officers

- i) Awareness for technology up-gradation, product development, product promotion, exploring improved varieties of fruits, vegetables and flowers and market intelligence, shall be in consonance with the WTO commitments and the same would remain as an integrated component as per the objectives of the scheme for the government officers.
- ii) Visits shall be conducted by Officers of NHB, DAC and the State Horticulture Departments / Horticulture Division of SAUs to give exposure to the officers about horticulture industry in the advanced countries.
- iii) The team shall comprise of officials from NHB and there shall be one team leader.
- iv) The visit should normally not exceed seven days excluding the journey time.
- v) The expenditure for travel and per diem shall be borne by NHB as per the Government of India approved rates. The names of the officers from the State Horticulture Departments shall be finalized by NHB in consultation with DAC with reference to the merit and performance of such officers in the field.

Pattern of assistance:- Rs. 6.00 lakh per participant 100% of air / rail travel and course fee

3.2.9. Organization/Participation in Seminar/symposia/workshop for development of horticulture

(a) Implementation

- i) Technology awareness programmes by NHB
- ii) Seminars/workshop/exhibition etc shall be organized at the state, national and international levels for promotion of horticulture.
- iii) For State level events NHB/NHM/HMNEH beneficiaries from the same State should be invited in consultation with NHB and State Horticulture Mission (SHM).
- iv) For National level event NHB/NHM/HMNEH beneficiaries, producer States should be invited for the event by the organizers in consultation with NHB and State Mission Directorates. Beneficiaries from at least five main producer states would be required for the event
- v) Such beneficiaries should not be charged any registration fee, etc. and should be provided with same facility as other registered participants.
- vi) The amount sanctioned for a particular year is required to be spent within the same financial year, unless revalidated.

(b) Pattern of Assistance

- i) The financial assistance would be limited up to Rs.10.00 lakh for International event(3-5 days), Rs.5.00 Lakh for National event, Rs.3.00 lakh for State Level event and Rs.0.50 lakh for District Level event
- ii) In case of short duration (1-2 days) seminars, financial assistance would be limited to:-
 - Rs.1.00 lakh per event for State Level event,
 - Rs. 2.00 lakh for National level event and
 - Rs 3.00 lakh for International event (for organizations/participation of international event within India).

(c) Manner of Implementation

- i) The seminars/workshops/ Exhibitions shall be organized primarily for beneficiaries of NHB/ NHM and HMNEH schemes, however, if such beneficiaries are not available in required number, then other growers of horticulture crops can also be included.
- ii) These events will be primarily organized through crop specific National Research Centre for Horticulture Crops, any other ICAR Institution, Agricultural/Horticulture Universities or Colleges/KVKs/State Directorates of Horticulture/State or National Federations of primary level registered and functional Growers Associations, who generate enough resources internally to manage their day to day affairs on their own.
- iii) Financial assistance for attending workshops/seminars/training course shall be limited to the event relating to horticulture sector. Training need assessment should be done for the group of participants and duly considered before sponsoring participants to attend the event.
- iv) Crop specific training to producer farmers, training to operators of PHM infrastructures, processing units, cold storage operators, laboratory technicians etc., shall also be given financial assistance under this subcomponent.
- v) Quantum of financial assistance per participant for per day of training shall be fixed by NHB after assessing cost implication as submitted by the organizing agency.

- vi) Financial assistance to group of farmers participating under this sub component will be extended only to such workshops / seminars / training courses, which have not been directly assisted under this subcomponent for organizing the event.
- vii) Benefits under scheme subcomponents of Visit of Progressive Farmers may also be made available to participants of above mentioned workshops / seminars/ exhibitions / training courses.

3.2.10. Accreditation and Rating of Fruit Plant Nurseries

Implementation and pattern of assistance

Accreditation system will be based on rating in a scale of single star to five star with appropriate weightage on production system, nursery management practices and quality of planting material produced. The single star to five star scale rating will be based on following criterion:-

- (i) Application by the Nursery seeking NHB Recognition, showing layout of Nursery, location of infrastructure components and land utilization plan, details of technically qualified staff in the nursery, major farm machineries and operational manual prepared by nursery for selection and maintenance of mother plants, process followed for production of planting material and management of inventory of planting material.
- (ii) Assessment of Nursery will be made by a duly constituted Assessment Team on laid down parameters such as location of nursery, mother plants of both scion & rootstock, propagation technology, infrastructure for production, bio-security and disease free conditions, operation manual, quality of man power and trade relations
 - i) Fulfillment of Technical specifications of horticulture planting material and its production procedure as per ICAR document entitled " Handbook of seed and planting material testing manual for Horticulture crops" and technical capability of management,
 - ii) Availability of required infrastructure as per specified nursery standards of NHM for Model Nursery, such as greenhouses, mist chambers, efficient nursery tools and gadgets, implements and machinery etc.,
 - iii) Adoption of Good Nursery Management practices including proper record keep
 - iv) Any other condition stipulated by NHB
 - v) The process of carrying out accreditation and rating of horticulture nurseries will be as per protocol approved by the Department of Agriculture & Cooperation, Ministry of Agriculture. It will be followed by periodic surveillance of accredited nursery. It may be implemented by NHB directly or through nominated accrediting agency.
 - vi) Proposals regarding nominations of accrediting agency and financial assistance shall be decided by the Board.

Guidelines along with Technical Manuals of NHM and ICAR for establishment of Nursery have been notified and published by NHB.

Pattern of assistance:- Rs. 1.00 lakh / nursery By Central Nodal Agency (NHB)

SCHEME- 4

4. Market Information Service for Horticulture crops

4.1 Objectives

- i) To generate information on wholesale prices, arrivals and trends in various markets of the country for important fruits, vegetables & flowers etc and also on retail prices for increased number of selected markets
- ii) To analyze the trends of arrivals, prices and other related factors of the selected fruit and vegetables such as stock in storage, crop stand etc and generate Market Intelligence Reports
- iii) To establish a nation-wide communication network for speedy collection and dissemination of market information data for its efficient and timely utilization.
- iv) To prepare farmers' advisory and issue the same for the benefit of producer farmers especially by making use of statistics so generated and collected for optimizing returns to the producers
- v) To collect and compile horticulture database and strengthen existing system of 'Crop Estimation Survey-Fruits & Vegetables' (CES-F&V) as far as possible
- vi) Information dissemination through publicity, advertisements, films, printed literature etc.
- vii) Development of technology packages in electronic form to be shared through IT

4.2 Implementation

Coverage of markets by NHB shall be increased from present 36 fruits and vegetables markets to 50 markets. This would be done by outsourcing existing marketing/professional agencies/ unemployed Agriculture graduates or recognized/established brokers in Mandi etc. at a fixed monthly remuneration (including transport) per month as decided by the Board plus actual expenses on transmission of information to NHB (fax, internet and telephone). The NHB would identify these markets in consultation with concerned State Govts. An exclusive cell shall be set up at NHB, Gurgaon for on-line receipt, data entry, analysis, dissemination and web-site management. The work relating to this proposed MIS cell shall also be undertaken by outsourcing services of selected professional agency. To deal with work of computerization, development of technology package, data feeding etc, outsourced staff such as Senior Programmer, Programmer and Data Entry Operators and horticulture assistant may be engaged as per need at approved rates under TSG component of MIDH. The cell will also be responsible for undertaking development of technology packages in electronic form and information dissemination through publicity, printed literature etc. and local advertisements.

4.3 Pattern of assistance:- Project based as per actual cost

SCHEME-5

5. Horticulture Promotion Services/expert services and strengthening capability of NHB

Horticulture Promotion Service

Under this component, specialized studies and surveys shall be carried and study / survey reports shall be brought out for use by targeted beneficiaries. In addition, technical laboratories shall be set up or cause to be set up and also provide technical services including advisory and consultancy services. This shall be done by NHB with or without services of outsourced experts.

5.1. Components

- i. Review the present situation of horticulture development in particular area/ State
- ii. Identify constraints in horticulture development and suggest remedial measures
- iii. Develop short term and long term strategies for systematic development of horticulture,
- iv. Develop primary/secondary data of various aspects on horticulture,
- v. Provide consultancy services, expert services & establishing labs etc. in pursuance thereof,
- vi. Conduct technical scrutiny and certification of cold chain infrastructure as per implementation protocol for Technical Standards for cold storages etc.
- vii. Preparing reports relating to export competitiveness in the area of fresh horticulture produce,
- viii. Any other component of expert services provided by NHB addressing to identified needs of the sector

5.2. Pattern of Assistance for above components

100% cost of the study shall be borne by the Board.

5.3. Nodal Organizations

- i) NHB itself
- ii) State Governments/UT's and organizations under it,
- iii) Central Government Organizations/ agencies
- iv) Other organizations such as Quality Council of India / NHRDF etc.

Aspects of Studies/Surveys

- i) Techno Economic Feasibility Studies for development of horticulture in States/UT's/Belts/ Zones etc.
- ii) Market Studies /special problems/Area/Commodity based study/ other aspects – Terms of Reference will vary on case to case basis
- iii) Expert Services for project identification, formulation, implementation, monitoring & evaluation etc.
- iv) Multi disciplinary and specific studies by NHB such as Performance Rating of infrastructure components, tools, equipments, machineries for use in horticulture sector, Firming up of PHM, storage and specialized handling related protocols

- v) Issues relating to protocols for Good Agricultural Practices, quality standards for fresh horticulture produce such as under CODEX and EC standards;
- vi) Export competitiveness in respect of fresh horticulture produce,
- vii) E-solutions for business process of NHB office
- viii) To facilitate the consultancy services relating to production, plant protection, PHM, packaging, storage, marketing and exports,
- ix) All above aspects are illustrative and not exhaustive

5.4. Criteria for empanelment of consultants / consultancy firms

- i) The consultancy firms should be registered and it should be multi-disciplinary having minimum experience of 3-5 years. Individual consultants or subject matter specialist of horticulture /agriculture experts, economist/management/ legal / personnel/ financial/ marketing/ information-technology experts etc, can be engaged for specific activities, where the expertise of an individual will meet requirement.
- ii) The consultants must have expertise and experience in the field of horticulture, financial management, project formulation, project evaluation, monitoring etc.
- iii) Consultants should have capability, as evident from their past experience in similar work in relevant field such as agriculture/ horticulture/post-harvest management / refrigeration, e-governance, marketing and exports.
- iv) The consultants must have required infrastructure for taking up consultancy as per job requirements
- v) Preference would be given to such consultancy firms, who have experience in conducting similar studies for similar conditions
- vi) Individual consultant/experts, resource person at different level may also be engaged who will provide technical services and their honorarium will commensurate with their qualification and experience as per approved rates under National Level TSG of MIDH. The selection of experts for specific/multi disciplinary studies shall be finalized by the committee of NHB keeping in mind their known professionalism in the field.
- vii) Fresh Horticulture/Agriculture graduates as per approved rates of TSG component of MIDH may also be engaged as per need.

5.5. Procedure for engaging the services of consultants / consultancy firms

- i) Study would be conducted and consultancy services rendered through empanelled consultants. The panel of Consultancy firms / consultants would be updated periodically, after every three years.
- ii) A public notice will be issued calling offers from consultant / consultancy firms for empanelment. A panel of consultancy firms / consultants would be finalized by Empowered Committee of the Board.
- iii) Subject to suitability of work requirement and acceptance of terms and conditions prescribed by NHB, Consultancy Firms/consultants empanelled under NHM/other organization under MIDH schemes, may also be considered for engagement.

5.6. Procedure for award of studies/surveys or consultancy assignment to a consultant/Firm in panel so prepared by NHB

- I. Consultants / Firms may be empanelled by NHB for the purpose of conducting studies/surveys. They would send their detailed offer taking into consideration scope of work/term of reference within prescribed period.
- II. Consultants would be required to give offer in-respect of technical & financial aspects.
- III. Offers would be scrutinized by the Board for consideration of Empowered committee.
- IV. Consultants would present their case in person before the Empowered Committee on the date & time to be decided by the Board.
- V. Period of study would be decided by the Empowered Committee on case to case basis.
- VI. The study would be awarded by the Board on the recommendation of the Empowered Committee.

5.7. Mode of Payment

- i) 25% on award of work
- ii) 50% on submission of Draft Report.
- iii) 25% after final report and its acceptance by Board/ Concerned State Govt./ Organization.

Note: - The consultant / consultancy firm shall be required to furnish an indemnity bond and personal guarantee before the release of advance payments. For any delay in submission of Draft Report, penalty @ 1 % of total fee may be levied on the consultants for every delay of one month or part thereof.

5.8. Submission of Draft Study / Survey Report

- i) Draft report would be submitted by the consultants within the prescribed time.
- ii) Consultants would also present the study undertaken through slides etc. before the NHB & concerned sponsoring organization.
- iii) Comments of NHB/sponsoring organization would be included in the study report.
- iv) Consultants would coordinate for organizing the presentation of the report.

5.9. Submission of Final Report

Consultants would be required to submit requisite number of copies of Draft Report and Final Report duly bound along with soft copy.

NHB can undertake consultancy services including setting up of specialized laboratory with the help of empanelled consultants/consultancy firms.

GUIDELINES FOR MAKING APPLICATION, SUBSIDY CLAIM AND INSPECTION ALONG WITH APPLICABLE FORM/FORMATS

ITEMS	DESCRIPTION	Page No.
	CHAPTER- I, II & III Guidelines for making application, subsidy claim and inspection under Commercial Horticulture (Scheme No. 1) and Cold Storage (Scheme no. 2) schemes of the Board	19-26
Chapter-I	Procedure for Making Application under Commercial Horticulture and Cold Storage scheme	19-21
Chapter-II	Guidelines for Making Subsidy Claims under Commercial Horticulture and Cold Storage scheme	22-25
Chapter-III	Guidelines for Inspection/Joint Inspection Projects on Completion under Commercial Horticulture and Cold Storage scheme	26
Chapter-IV	FORMS AND FORMATS	
FORM -I	Application form for Seeking Assistance	
Format - I-A	Commercial Horticulture Scheme (with basic data sheet in case of ripening chamber only)	27-32
Format - I-B	Cold Storage scheme with Basic Data Sheet	33-44
Format - I-C	Technology Development & Transfer scheme	45-46
FORM-II	Forms for Subsidy Claims by Banks/FI's	
Format -II-A	Forwarding Letter by Bank for release of tentative subsidy after release of at least 50% term loan under Commercial Horticulture and Cold Storage scheme	47-48
Format- II-B	Forwarding Letter by Bank for conducting Joint Inspection after completion of Project under Commercial Horticulture and Cold Storage scheme	49
Format-II-C	Undertaking to be given by applicant at the time of subsidy claim under commercial Horticulture and cold storages scheme	50
FORM-III	Formats for Joint Inspection Report	
Format- III-A	Commercial Horticulture scheme	52-56
Format- III-B	Cold Storage scheme	57-59
FORM-IV	Other formats	60-67
Format-IV-A	Duly Certified Expenditure Statement (CA Certificate)	68-70
Format-IV-B	RTGS - Proforma	71
Format IV- C	Utilization Certificate	72
Chapter-V	Cost Norms	73-87
Appendix	List of NHB offices	88-89

CHAPTER-I

Guidelines for Making Application for assistance under the Commercial Horticulture (Scheme no. 1) and Cold Storage (Scheme no. 2)

1. Who can apply for Assistance -

A natural person, a group of individuals or a legal person (Partnership Firm, a Trust, Cooperative Society, a Society registered under Registration of Society Act, a company, self-help group, Farmer Producers Organization, Co-operative Marketing Federations, Agricultural Produce Marketing Committees, Marketing Boards/Committees, Municipal Corporations/ Committees, Agro-Industries Corporations may apply for assistance.

2. Where to Apply -

A : Physical Application on Prescribed Format: It is necessary for the applicants to fill up and submit the Application Form in prescribed format (Format - IA for Scheme no. 1 and Format IB for Scheme no.2). Application form has to be submitted as under:

- (i) To respective State Office of NHB – up to the project cost of Rs 50.00 lakh.
- (ii) To NHB, HO, Gurgaon where the project cost is above Rs 50.00 lakh,

However, in case of refer van/specialized transport vehicle, all the proposals shall be submitted to Head Office.

B. Online Submission of Application

NHB has introduced a system for online filing of applications on its website www.nhb.gov.in. The Homepage of the Website provides a link "Apply Online and Track Status here".

After filing online application, applicant should take print out of his online application form. It is necessary for the applicants to fill up and submit the detailed application form in prescribed format apart from online application form.

3. Documents to be enclosed along with application form-

- a. Application Form in the prescribed Format
- b. Certified copy of record of right over the piece of project-land. In case of lease of land for the project a certified copy of lease deed which should be registered with the authority like office of sub-registrar etc. at the time of submission of subsidy claim.
- c. Prescribed cost of application form and scheme brochure
- d. Detailed Project Report (DPR)
- e. Undertaking
- f. Consent letter or acknowledgement of application by the lending bank, if applicable
- g. Declaration in prescribed format from Mechanical Engineer. (For cold storage project only)
- h. Basic Data Sheet in prescribed format in case of Cold Storage and Ripening chamber projects. This will be evaluated by NHB empanelled technical expert to confirm compliance of notified Technical Standards.

4. Protocol for Implementation of Technical Standards (in case of Cold Storage, Ripening Chamber, Reefer Container only)

Subject to provisions of Variation Clause, only those cold storage projects that are in conformity with the prescribed technical standards will be eligible for NHB Subsidy.

5. Title of the land and copy of record of right-

The title of the piece of land on which the project is proposed to be set up should be in the name of applicant in the capacity of owner or lessee for minimum period of 10 years. In case of land leased, lease deed it should be registered with the Authority like office of Sub-Registrar, etc. A latest copy of record of right showing this fact should be enclosed with the application. Mortgaged land shall not be treated at par with lease even if the credit institution might have considered so. Similarly, Power of Attorney given by owner of land in favour of applicant shall not qualify him for benefit under the scheme. In case of Partnership Firm's land may be hold either by Firm or jointly by its partners. In case land is owned by one of the partners, an undertaking by land owners would be required stating that he will not withdraw, sale or transfer his land during currency period of the project. In case of North East/Sikkim States , the Land Possession Certificate issued by Government to the applicant shall also qualify.

6. Cost of Application Form & Scheme Brochure:

Following is the structure for cost of application:-

Cost of Application	Demand Draft and Electronic Transfer category	Credit or Debit Card (VISA/MASTER)
For Projects having cost upto Rs 10.00 lakh	Rs 1,000/-	1000/- (plus applicable charges towards payment of gateway transaction fee)
For Projects having cost > 10 lakh and upto Rs 20 lakh	Rs 2,000/-	Rs 2000/- (plus applicable charges towards payment of gateway transaction fee)
For Projects having cost > 20 lakh and upto Rs 50 lakh	Rs 5,000/-	Rs 5000/- (plus applicable charges towards payment of gateway transaction fee)
For Projects having cost > 50 lakh	Rs 10,000/-	Rs 10,000/- (plus applicable charges towards payment of gateway transaction fee)

7. Scrutiny Points for Application- Following scrutiny points are suggested and scrutiny point may add as per need of the case

- Application is duly filled in all respect and signed on all pages and annexed with required/ relevant papers/documents.
- Land area under project is either ownership / lease (Registered) hold right for prescribed number of years in the name of applicant and free from any burden such as mortgage to third party,
- Crop / activity proposed is permissible under NHB scheme
- Crop, its variety, plant density, plant matrix its proposed area and source of planting material, is clearly shown. This detail should be looked into and suitable technical advice may be given to applicant.
- Conformity of Technical Standards in case of Cold Storage, Ripening Chamber, Reefer Container only

8. Keeping Proper Record of Applications Received -

Individual file of the case shall be maintained. Particulars of applications will also be maintained on customized software of NHB. Information shall also be available on public domain with facility to track status of project by applicant.

9. Deciding Application for Issue of LOI in request cases -

Letter of Intent (LOI) will be voluntary for the promoter and would be issued only on the request of the promoter. This will not be required for claim of subsidy.

In case, applicant request NHB for grant of LOI, NHB will consider issuance of Letter of Intent (LOI) to applicant. LOI approval shall be granted at the level of concerned Area/Field Officers as per delegation of Power within 60 days from the date of receipt of application which will be valid for a period of one year from the date of issue.

10. Important Instructions for the beneficiary -

- i. Application with project cost up to Rs. 50.00 lakh may be sent to Center Incharge of the respective State as per address given at **Annexure**).
- ii. Application with project outlay above Rs.50.00 Lakh may be sent directly to Managing Director, National Horticulture Board, Plot No. 85, Sector 18, Institutional Area, Gurgaon - 122 015 (Haryana) with a copy to the concerned State Office of NHB.
- iii. All relevant columns of the applications must be filled up and application should be duly signed by the beneficiary on each page.
- iv. Over writing should be avoided. Over writing in all cases should be duly authenticated.
- v. Applicant must attach all enclosures such as proof of land records, DD towards Application fee, DPR and bank consent letter etc.
- vi. Applicant has to intimate the Board before effecting change of project land, crop, area, bank, etc. in the proposal before claim of subsidy.
- vii. Components of projects not included in project proposal submitted by entrepreneur and /or not forming part of bank appraisal note is not eligible for NHB subsidy.
- viii. If applicant is one or few of joint owners of project land then NOC from others co-owners be submitted.
- ix. Incomplete project/ NPA projects and default cases shall not be eligible for subsidy and subsidy will be called back in such cases with interest.

11. Only those applications, which comply with the above stated conditions (Para 1 to 8), and meet the eligibility conditions, will be considered for grant of subsidy by NHB. Applicant should ensure its compliance before commencement of physical work of the project.

CHAPTER-II

Guidelines for Making Subsidy Claims and Release of Subsidy under the Commercial Horticulture Scheme (Scheme no. 1) and Cold Storage scheme (Scheme no. 2) of NHB

1. Pattern of Release of Subsidy in credit linked cases

- 1.1. Full (100%) estimated advance subsidy when claimed after disbursement of more than 50% term loan followed by full and final subsidy settlement after completion.
- 1.2 Full & Final subsidy, when estimated subsidy claim is not preferred and claim is submitted directly after completion of project.

1.1.1 Procedure for release of estimated subsidy in loan cases:-

For proposals involving term loan, scheme provide to release full estimated subsidy (limited to amount of sanctioned Term Loan) as per cost norms after disbursement of 50% term loan and final settlement of subsidy claim for such cases will be done after completion of project and assessment of eligible project cost by Joint Inspection Team and Committee of NHB. Accordingly, procedure for release of subsidy in loan cases would be as under:-

1.1.1.1 Procedure for submission of documents/papers for estimated subsidy claim to the Board :

- i) Upon release of at least 50% amount of term loan by bank to promoter, the concerned FI/Bank which has provided credit for the project shall submit subsidy claim to NHB in prescribed Format II-A as under:-
 - To respective State Office of NHB - up to the project cost of Rs.50.00 lakh.
 - To NHB, HQ, Gurgaon where the project cost is above Rs. 50.00 lakh,
- ii) Committee of NHB will consider proposal of FI/Bank for release of estimated subsidy and NHB would release 100% estimated subsidy to the concerned bank/FI as per prevailing cost norms in eligible cases approved by the committee.
- iii) The subsidy would be kept frozen by bank/FI in the Subsidy Reserve Fund Account (SRFA) of the Bank.
- iv) Release of estimated subsidy will not exceed the limit of sanctioned term loan by FI/Bank for the project.

Documents to be submitted with the estimated subsidy claims :-

Upon release of at least 50% amount of term loan by bank to promoter, the concerned FI/Bank which has provided credit for the project shall submit subsidy claim to NHB in prescribed Format II-A with following documents:

- (a) Financial appraisal report of the bank.
- (b) Term loan sanctioned letter issued by the bank with detailed terms and conditions.
- (c) Term loan disbursement statement
- (d) Undertaking in Format-IV.
- (e) Release of at least 50% of term loan into project Bank loan account.

1.1.1.2 Final subsidy claim on completion of project and upon release of final withdrawal of term loan by the Bank/FI.

Soon after completion of the project and disbursement of full term loan, the concerned FI/Bank shall submit final subsidy claim in prescribed format II-B. Bank/FI must ensure that claims are filed within prescribed time limit of 18 month for the date of release of 1st installment of term loan. A Joint Inspection Team (JIT) consisting of representative from bank, NHB, State Hort./Agri. Department, Expert (in case of Cold Storage and Ripening unit) will conduct joint inspection of the project to settle the final subsidy claim. Final amount shall be determined on the basis of the Joint Inspection Team and approval of appropriate committee of NHB.

Documents to be submitted with final subsidy claim

Final subsidy claim shall be submitted to the Branch Office of NHB or to the Head Office, NHB as the case may be, in format II-B along with following documents.

- (i) Completion Certificate by Bank/FI.
- (ii) Term loan disbursement details date-wise).
- (iii) Statement of Expenditure incurred certified by bank for project costing upto Rs. 50.00 lakh or by Chartered Accountant (CA), if project cost exceeds Rs. 50.00 lakh.

1.1.2. Procedure for claim of subsidy, for cases where advanced subsidy claim is not preferred

Claim can also be submitted after completion of the project. In such cases all documents mentioned with estimated subsidy claim as well as final subsidy claim will be required to be enclosed excepting statement of at least 50 % term loan disbursement.

1.1.3. Time limit for Completion of project

- (i) Time limit for completion of the project would be maximum of 18 months period from the date of disbursement of the 1st installment of term loan, which may be extended by a further period of 3 months, if reasons for delay are considered justified by the financial institution concerned and agreed to by NHB.
- (ii) If the project is not completed within stipulated period, benefit of subsidy shall not be available and advanced subsidy placed with the participating bank, if any, will have to be refunded to NHB forthwith or not later than 30 days after such period.

1.1.4 Procedure for adjustment of subsidy

- (i) Subject to availability of fund, full estimated subsidy amount shall be released as soon as the 50% of the term loan is released to the beneficiary. The estimated subsidy released by NHB would be kept frozen by bank/FI in a separate account termed as Subsidy Reserve Fund Account (SRFA) of the Bank. Subsidy so release shall be frozen in the subsidy reserve fund until the completion of the project and released finally after inspection. Banks shall not charge interest from the beneficiary to the extent of amount available in the Subsidy Reserve Fund for which due credit be given to the beneficiary.
- (ii) Final settlement will be made only after Joint Inspection by Bank, NHB and State Government representative, and clear written advice of NHB with regard to the eligible project cost and amount of subsidy to be released to the promoters account.
- (iii) The subsidy will be released to the borrowers term loan account by bank only after receiving the written advice of NHB for this purpose and balance amount would be refunded to NHB within 30 days. For any delay beyond it, bank will be liable to pay interest on the refundable amount. Subsidy amount in the borrower's term loan account should be adjusted only as part of the recovery of last installment.

- (iv) The subsidy should be refunded if the account becomes an NPA.

1.1.5 Submission of the Utilization Certificate by the Bank/FI.

The bank/FI shall submit to NHB Utilization Certificate of the subsidy amount in prescribed Format IV-D.

1.1.6 Mechanism to keep track of amounts released to various Banks by way of subsidy, amount utilized and the amount to be collected back from banks that are not disbursed.

- (i) Bank branches will furnish the information regarding Account No. of SRFA, name of the project, date and amount of subsidy released by NHB in SRFA, , date, amount of subsidy adjusted in term loan (with Account number), date and amount refunded by bank to NHB on quarterly basis to the state offices of NHB (and also the Head office of NHB in case the subsidy has been released directly by Head Office). State Office In-charge shall review the subsidy releases every month and will monitor its utilization and refund. State-wise register will be maintained by concerned Centre In-charge for centres and by the Finance & Accounts Division for Head Office. Area Officers shall review the subsidy release, utilization and refund quarterly.
- (ii) Internal audit will be conducted (on test basis) of the subsidy release, utilization and refund as per the provisions of the guidelines. F&A Division shall overall monitor the releases, utilization and refund of subsidy regularly and to bring out cases of default and issue suitable advice to concerned Area Officers for taking corrective measures.

1.1.6 Other Provisions:

- (i) Letter of Intent (LOI) will be voluntary for the promoter and would be issued only on the request of the promoter. This will not be required for claim of subsidy.
- (ii) The participating banks will adhere to the norms of appraising the project regarding technical feasibility and commercial/financial viability before the release of term loan to ensure that the project is new, meets the guidelines of NHB, and the promoter has clear land title or lease hold right over the land.
- (iii) A signboard displaying "Assisted by National Horticulture Board , Ministry of Agriculture, Govt. of India" will be exhibited at the site.
- (iv) Any other pre and post inspection would be undertaken by NHB representative to find out the physical, financial and operational progress as and when required.
- (v) Other operational instructions issued by NHB from time to time will be strictly followed.
- (vi) NHB reserves the right to recall any amount given under the scheme without assigning any reason thereof.
- (vii) The participating banks should ensure insurance of the assets created under the project wherever required statutorily.
- (viii) Claim can also be submitted after completion of the project. In such cases all documents mentioned with estimated subsidy claim as well as final subsidy claim will be required to be enclosed excepting statement of 50 % term loan disbursement.
- (ix) The decision of NHB with regard to eligibility and interpretation of the guidelines shall be final and binding on the beneficiaries and banks.

1.2 Procedure for claim of subsidy without term loan

Release of Subsidy need not be credit linked in North Eastern States for Commercial Horticulture Scheme and for the institutions like Public Sector Units, Panchayats, cooperatives, registered societies/

trust and public limited companies for both Commercial Horticulture Scheme as well as Cold storage scheme of Board provided they can meet remaining share of the project cost out of their own resources. Such projects will have to be appraised by appraising agency approved by NHB. Subsidy in such cases would be considered only for new projects after completion of the project and Joint inspection by team constituted by NHB.

1.2.1 Documents to be submitted with Application Form / Subsidy claim

- a) Application Form in the prescribed Format of respective scheme
- b) Prescribed cost of Application form and scheme brochure
- c) Certified copy of record of right over the piece of project-land. In case of lease of land for the project a certified copy of lease deed which should be registered at the time of subsidy claim & for North-Eastern States, land possession certificate issued by State Govt. may also be accepted.
- d) Detailed Project Report (DPR)
- e) Detailed Appraisal note by NHB authorized Bank/FI/ Institution
- f) Declaration in prescribed format from Mechanical Engineer in case of Cold Storage project.
- g) Basic Data Sheet in prescribed format in case of Cold Storage/Ripening chamber and reefer Van projects. This will be evaluated by NHB empanelled technical expert to confirm compliance of notified Technical Standards.
- h) Undertaking in prescribed format
- i) Statement of Expenditure incurred certified by Chartered Accountant (CA)

1.2.2 List of Appraising agencies for non credit-linked projects

Sl. No.	Proposal from	Appraising Agencies
01	North Eastern states	North Eastern Development Finance Cooperation (NEDFI), NABCONS, Nationalized Commercial Banks
02	Cooperative Sector	NCDC & Nationalized Commercial Banks
03	Public Sector Organizations and Autonomous Body	NABARD/NABCONS, Nationalized Commercial Banks
04	Regd. Societies/Trust and Public Sector Companies	NABCONS, Nationalized Commercial Banks

1.2.3 Other Provisions:

- I. The appraising banks/FI will adhere to the norms of appraising the project regarding technical feasibility and commercial/financial viability
- II. The decision of NHB with regard to eligibility and interpretation of the guidelines shall be final and binding on the beneficiaries.
- III. Pre and post inspection would be undertaken by NHB representative to find out the physical, financial and operational progress as and when required.
- IV. A signboard displaying "**Assisted by National Horticulture Board, Ministry of Agriculture, Govt. of India**" will be exhibited at the site.
- V. Other operational instructions issued by NHB from time to time will be strictly followed.
- VI. NHB reserves the right to recall any amount given under the scheme without assigning any reason thereof.

CHAPTER-III

Guidelines for Inspection / Joint Inspection Projects on Completion

Objective

Joint Inspection of the project is carried out with the prime objective of ensuring that the project has been completed as per original project report at approved project site and all essential components have been completed with satisfactory quality of execution and acceptable standard of workmanship. It is also aimed at verifying the vouchers and other records maintained by the beneficiary in order to make assessment about the component-wise actual expenditure incurred by the beneficiary and making assessment about cost of the project. It not only gives pen-picture of the project but also provides photographs and video films (In case project cost is more than Rs. 50 Lakh) as per standing instructions of NHB by way of proof of existence of assets created.

Intimation of completion of project and carrying out Inspection / Joint Inspection

On completion of the project, promoter or his/her Banker, will submit request in the concerned State I/c of NHB to fix the date for Joint Inspection of the project. Such cases will be jointly inspected within 15 days from the date of request, by representative of NHB and representative of financing institution (FI) / Bank in presence of beneficiary. Representative of State Directorate of Horticulture / Central Govt. Organization and one expert (in case of cold storage and ripening chamber project) may also be associated as per standing orders of NHB.

Salient features of Inspection Report

Joint Inspection Report will be submitted in the prescribed form for each scheme giving necessary description of various components of the project and project land, source of funding, status of completion, etc;. Inspection report will be supported by photograph or video film as per standing instructions of NHB.

Inspecting Officer / Joint Inspection Team is also responsible for making assessment of the cost of various components of the project and the project as a whole. It is generally made by verifying documentary proof such as vouchers / money receipts relating to procurements / services received etc. At times, when veracity of vouchers / money receipt is not certain, a fair assessment of cost may be made taking into account the local rates etc. Valuation made by Chartered accountant may also be taken into account.

CHAPTER-IV

FORMAT-I-A

PART-I

Application for seeking assistance under the scheme "Development of Commercial Horticulture through production and post Harvest Management" of National Horticulture Board)

(to be signed on each page by applicant. Part II of this form need to be filled only in case of Banana ripening unit)

1) Date of application

2) Control No. :
(to be given by NHB)

To,
The Centre In-Charge
National Horticulture Board

.....
(Only projects upto Rs. 50.00 Lakh may be sent to this address)

To
The Managing Director
National Horticulture Board
Plot No. 85, Sector-18, Institutional
Area, Gurgaon-122015
(Haryana)

(projects above Rs. 50.00 Lakh may be sent to this address and a copy of the same to concerned State Office too)

Affixed duly
signed PHOTO
here

A. GROWER/ENTREPRENEUR

1. Name : _____
Permanent Address : _____
Postal Address : _____
Fax _____ Mobile _____ Email _____
2. Category : SC/ST/OBC/Ex-Service Man
3. Constitution: individuals /Partnership Firm/ Trust/Cooperative Society/a Society registered under Registration of Society Act/ a company/ self-help group)/ Farmer Producers Company
4. Gender : Male/Female _____ Age _____
5. Occupation:
6. Promoters/beneficiary profile
 - i) Principal Promoter/Beneficiary
 - ii) Others
 - iii) In case of companies -
 - Registration number & date of registration
 - Registering authority

7. PROPOSED ACTIVITY

A. (Cultivation/PHM/Primary Processing/Horticulture ancillary) Nursery/mushroom/Tissue culture

1. Name of the Project
2. Location:
Survey/Khasra No. _____ Village _____, Taluka _____
District _____ State _____

Signature of applicant

3. Activity proposed under the project in details:-

(a) Area under cultivation/project

	Name of the Crops	Variety (s)	Area (acres)	No. of plants	Source of Planting Material	Density of plantation
i)
ii)

b) PHM Activity

- Grading & packing/Pre-cooling/Refer Van:-

c) Primary processing

- Activity in brief with details of products:-

d) Misc. activities (Not covered in a to d)

- Activity in brief :-

B.II (a) Whether proposed activity in application is Completely a new activity Yes/No

(if No, the details of pre-existing activity or any component thereof included in the application should be indicated clearly)

(b) Whether any subsidy has been availed for the proposed proposal/activity from Central Govt. or any of its Agencies. (if YES, please indicate clearly in detail Yes/No

C. PROPOSED PROJECT COST (Component-wise)

Component/Item

(Proposed Cost)
(Amount in Rs.)

(a) Cultivation

1) Cost of Cultivation

(i) Cost of planting material

.....

(ii) Input Cost

.....

(iii) Source of planting material & proposed variety(i.e.)

.....

2) Irrigation

(i) Bore-well/Tube-well (new/old)

.....

(iii) Cost of pipeline (length, diameter & type of material used)

.....

(iv) Water harvesting pond (existing/new & size)

.....

(v) Other expenditure, if any (pl. specify)

.....

3) Micro Irrigation, use of plastic mulching etc.

(i) Cost of drip irrigation

.....

(ii) Cost of sprinkler

.....

(iii) Cost of plastic mulching

.....

(iv) Other expenditure, if any (pl. specify)

.....

4) Infrastructure

(i) Store

.....

(ii) Labour quarter

.....

(iii) Other expenditure, if any (pl. specify)

.....

5) Form mechanization

.....

i) Cost of tractor and accessories

ii) Other tools and equipments (item wise)

6) Land development (including digging of pit & fencing

.....

7) Cost of Land, if purchased

.....

Signature of applicant

8)	Creation of controlled atmosphere	Area (sq. mtrs)	Cost
a)	Green house/poly house (size)	.....	.....
b)	Shade net (size)	.....	.....
	Total	.....	.....
(b)	Post Harvest Infrastructure		
1.	Cost of grading/packing house		.....
2.	Cost of grading/packing line		.....
3.	Cost of pre-cooling unit (capacity)		.....
4.	Cost of refrigerated van (capacity)		.....
5.	Zero Energy Cool Chamber		.....
6.	Other components, if any (pl. specify)		.....
	Total		.....
(c)	Primary Processing		
(i)	Activity	(ii) Capacity in MT/day	(iii) Capacity in MT/annum.....
1.	Cost of civil constructions		.....
2.	Cost of plant & machinery		.....
3.	Other components, if any (pl. specify)		.....
	Total		.....
4.	Name the product of primary processing		.....
D.	PROPOSED MEANS OF FINANCE		
(i)	Promoter's share		.....
(ii)	Bank/FI term loan		.....
(iii)	Proposed subsidy from other sources, if any		.....
	a) Form State Govt.		.....
	b) From Central Govt. other than NHB		.....
	Total		.....
	(Note: Unsecured loans from friends/relatives will not be treated as equity)		
	Expected back-ended subsidy from NHB: Rs.		
	(NHB subsidy will be considered as per Board's guidelines, if found in order, but not guaranteed)		
E.	EXISTING STATUS OF PROJECT		
	(Please give details about the activities of the proposed project already completed at the time of submission of application of Letter of Intent (LOI))		
		
F.	Whether any assistance in the form of soft loan and subsidy has been availed by the beneficiary earlier from the National Horticulture Board? If yes, give details thereof.		
		
G.	Whether any subsidy has been availed from the Board, other Central Govt. organization or State Govt. for the same activity on same piece of land, khasra no. etc.?		
		
	Details of subsidy, if availed from:		
a.	MFPI	(b) APEDA	(c) Other sub schemes of MIDH including NHM
H.	Name of the Bank/FI from where the term loan is availed/to be availed by the Beneficiary (Please enclose a copy of the duly filled up term loan Application).		
	a) Name of Bank:.....b) Branch:.....Bank Code.....		
I.	Date & Amount of sanction of term loan, if any :		
	Signature of applicant		

- J. Details of release of term loan, if any: _____
- K. DETAILS OF LAND
- i) Whether own land (ancestral) : _____
- ii) Whether leased If so, how many years lease : _____
- iii) Whether lease/tenancy/contract is registered with the Competent Registration Authority (copy of the proof of each title be enclosed)
- L. IMPLEMENTATION SCHEDULE OF PROPOSED ACTIVITY
- i) Proposed month for undertaking land development: _____
- ii) Proposed month for plantation: _____
- iii) Expected date/month of first commercial crop: _____
- iv) Proposed date for start of unit in case of processing: _____
- M. MARKETING OF PRODUCE
- Details of marketing tie-up (Backward/forward linkage)
- N. Cost of Application Form & Scheme Brochure will be as under:
- | | |
|---|---------------|
| Projects costing upto Rs. 10.00 lakh | : Rs. 1000/- |
| Projects costing above Rs. 10.00 lakh and upto Rs. 20.00 lakh | : Rs. 2000/- |
| Projects costing above Rs. 20.00 lakh and upto Rs. 50.00 lakh | : Rs. 5000/- |
| Projects costing above 50.00 lakh | : Rs. 10000/- |
- The above prescribed cost of application form and brochure will be non- refundable.
- O. Please remit the cost of application and scheme brochure by Demand Draft drawn in favour of National Horticulture Board payable at Gurgaon (Haryana) for projects costing Rs. 50.00 lakh & above and at concerned state office where project cost is below Rs. 50.00 lakh.
- | | | |
|---------------------|------------------|-------------|
| Name of the issuing | Demand Draft No. | Amount(Rs.) |
| Bank Branch | & Date | |
| | | |
- P. Name & address of consultant who prepared the project report (DPR).

SELF DECLARATION

I hereby declare and certify that the information/contents as above furnished by me/us in the application are true to the best of my/our knowledge & belief and nothing material has been concealed. In case, any information furnished in the application is found false, my/our application may be rejected out rightly at any stage by the Board. Verified that the information given in the application form are true to the best of my knowledge and belief and nothing material has been concealed.

Place:

Date :

(Signature of the Applicant(s))

Name & Address :

Mobile No :

Telephone/Fax No.

Email :

Enclosures:

1. Prescribed Cost of Application Form & Scheme Brochure
2. Certified copy of Record of Rights over the piece of project land. In case of lease of land for the project a certified copy of lease deed which should be registered at the time of submission of LOI application
3. Detailed Project Report (DPR)
4. Consent letter or acknowledgement of application by the lending bank, if applicable
5. Basic data sheet for Banana Ripening Unit/Reefer Van only.

PART-II

FORMAT – I-A

BASIC DESIGN DATA SHEET FOR BANANA RIPENING UNIT

Sl. No.	Specifications	Units	Parameters
1	Storage Capacity (in terms of banana)	MT	
2	Room Volume	M3	
3	Room Size (lxwxh)	Each in M	
3A	Number of ripening rooms		
4	Type of pallets		
4A	Size of pallets	(MMxMMxMM)	
4B	No of pallets in each chamber	No	
4C	No of crates/boxes layers on a pallet	No	
4D	No of stakes in case of multi tier stacking		
4E	Pallet Lifting System		
5	Design Ambient Temperature	Deg C	
6	Target Fruits	Names	
7	Ripening Room Temperature	Deg C	
8	SST	Deg C	
9	Design RH in Ripening Room	%age	
10	Product Incoming temperature		
11	Pull Down Temperature	Hours	
12	Wall/Ceiling/Floor Insulation	Type	
13	Values of thermal Insulation	A) Density ____ B) U Value ____	
14	Insulation Thickness	MM	
14A	Wall Insulation Work Thickness	MM	
14B	Ceiling Insulation Work Thickness	MM	
14C	Floor Insulation Work Thickness	MM	
14D	Type & thickness of cladding on Insulation on walls		
15	Door Size (w x h x thickness)	MM	
15A	Hinged Doors Size		
15B	Sliding Door Size		

Signature of applicant

Sl. No.	Specifications	Units	Parameters
15C	Other type		
16	Tube Light Fittings	Wx Nos	
17	Design Ripening Period	No of Days	
18	Refrigeration Load	KW/TR	
19	Suggested Refrigeration Unit	TR and No	
20	Indicative Power Input data for refrigeration System	KW	
21	Humidification Load	Kg/Hr	
22	Details of Ethylene application System		
23	Details of sensors		
24	Details of control system		
25	Electric System for chamber		
26	Details of humidifier		
27	Measures to ensure proper quality of water for humidifier		
28	COP (Coefficient of Performance)		

Name in Capital Letters

Signature & Seal of Consultant

Who has designed ripening chamber

And is going to provide supervision

during Construction and commissioning

Signature and

Name of Applicant with seal

FORMAT-I-B**PART-I**

Application for seeking assistance under the scheme "Capital Investment Subsidy Scheme for Construction/ Modernization of Cold Storages and Storages" of National Horticulture Board)

(to be signed on each page by the applicant)

- 1) Date of application
- 2) Control No. :
(to be given by NHB)

To
The Managing Director
National Horticulture Board
Plot No. 85, Sector-18, Institutional
Area, Gurgaon-122015
(Haryana)

Affixed duly
signed PHOTO
here

A. Beneficiary/Entrepreneur

1. Name : _____
Permanent Address : _____
Postal Address : _____
2. Constitution : Individual/Company/Joint Promoter/Government
In case of Individual
3. Category : SC/ST/OBC/Ex-Service Man
4. Gender : Male/Female _____ Age _____
5. Occupation :
6. Promoters/beneficiary profile :
In case of companies
 - Registration number & date of registration
 - Registering authority
 - Act under which Registered
 - Authorized share capital _____
 - Paid-up share capital _____ Reserves & surplus _____
(by end of last financial year)

B. Proposed Activity

1. Name of the Project
2. Location:
Survey/Khasra No. _____ Village _____, Taluka _____
District _____ State _____
3. Component: Cold Storage/CA Storage/Modified Storage/Onion Storage/ Modernization of Existing Storage

Signature of applicant

4. (A) Existing capacity, if any Chamber (s) Capacity in MT
Chamber No. 1 2 3 4
Total
- (B) Proposed new capacity Chamber (s) Capacity in MT
Chamber No. 1 2 3 4
Total
- (C) Chamber/Capacity Proposed Chamber (s) Capacity in MT for modernization
Chamber No. 1 2 3 4
Total
- (D) Justification for Additional Capacity/Modernization
- B.II (a) Whether proposed activity in application is a completely a new activity: Yes/No
(if No, the details of pre-existing activity or any component thereof included in the application should be indicated clearly)
.....
- (b) Whether any subsidy has been availed for the proposed proposal/activity from Central Govt. or any of its Agencies. Yes/No
(if YES, please indicate clearly in detail)
.....
- C. Proposed Project Cost (Component-wise)
- D. Proposed Means of Finance
(i) Promoter's share
(ii) Bank/FI term loan
(iii) Proposed subsidy from other sources, if any
a) Form State Govt.
b) From Central Govt. other than NHB
Total
(Note: Unsecured loans from friends/relatives will not be treated as equity)
Expected back-ended subsidy from NHB: Rs.
(NHB subsidy will be considered as per Board's guidelines, if found in order, but not guaranteed)
- E. Existing Status of Project
(Please give details about the activities of the proposed project already completed at the time of submission of application of Letter of Intent (LOI)
.....
- F. Whether any assistance in the form of soft loan and subsidy has been availed by the beneficiary earlier from the National Horticulture Board? If yes, give details thereof.
.....

Signature of applicant

- G. Whether any subsidy has been availed from the Board, other Central Govt. organization or State Govt. for the same activity on same piece of land, khasra no. etc.?

Details of subsidy, if availed from:

- (i) MFPI :
- (ii) APEDA :
- (iii) NHM :
- (iv) Technology Mission :
- H. Name of the Bank/FI from where the term loan is availed/to be availed by the Beneficiary (Please enclose a copy of the duly filled up term loan Application).
- a) Name of Bank: Bank Branch: Bank Code:.....
- I. Date & Amount of sanction of term loan, if any : _____
- J. Details of release of term loan, if any : _____
- K. Details of land
- i) Whether own land (ancestral) : _____
- ii) Whether own land purchased : _____
- iii) Whether leased If so, how many years lease : _____
- iv) Whether lease/tenancy/contract is registered with the Competent Registration Authority (copy of the proof of each title be enclosed)
- M. Implementation Schedule of Proposed Activity
- N. Marketing of Produce
- O. Cost of Application Form & Scheme Brochure will be as under:
- | | | |
|---|---|-------------|
| Projects costing upto Rs. 10.00 lakh | : | Rs. 1000/- |
| Projects costing above Rs. 10.00 lakh and upto Rs. 20.00 lakh | : | Rs. 2000/- |
| Projects costing above Rs. 20.00 lakh and upto Rs. 50.00 lakh | : | Rs. 5000/- |
| Projects costing above 50.00 lakh | : | Rs. 10000/- |
- The above prescribed cost of application form and brochure will be non- refundable.
- P. Please remit the cost of application and scheme brochure by Demand Draft drawn in favour of National Horticulture Board payable at Gurgaon Haryana)
- Q. Name & address of consultant who prepared the project report (DPR).

SELF DECLARATION

I hereby declare and certify that :

- the information/contents as above furnished by me/us in the application are true to the best of my/our knowledge & belief and nothing material has been concealed. In case, any information furnished in the application is found false, my/our application may be rejected outrightly at any stage by the Board.



2. That I have thoroughly read and examined notification F. No. 45-64/2010-Hort dated 25.02.2010 for prescribed technical standards w.e.f. 01.04.2010.
3. That I accept and undertake that the Technical Scrutiny of the documents by NHB or its empanelled agencies shall not in any way obviate the responsibility of the Promoter/deponent, to scrutinize his project and insure that it invariably complies to the prescribed technical standards w.e.f. 01.04.2010 vide notification F. No. 45-64/2010-Hort dated 25.02.2010".

Date

(Signature of the Applicant(s))

Place:.....

Name and Address

Telephone/Fax No.

Mobile No :

E mail

Enclosures:

1. Prescribed cost of application
2. Certified copy of Record of Rights over the piece of project land. In case of lease of land for the project a certified copy of lease deed which should be registered at the time of submission of LOI application
3. Detailed Project Report (DPR)
4. Consent letter or acknowledgement of application by the lending bank, if applicable
5. Basic data sheet (if applicable)

Part -2

FORMAT – I-B

Basic Data Sheet

A. Identification

Name of Cold Storage			
Location of Cold Storage	Area / Village	Town	
	District	State	
Name of Promoter Company / Owner			
Type of company			
(Proprietorship / Partnership / Pvt. Ltd / Ltd)			
Postal address of Promoter			
	Tel / Fax	Mob. No	E-mail
Present activity in brief			
Name of CEO / MD			
Name of Manager / Contact Person		Phone / Mobile No	

B. Basic Cold Store Design Considerations

i) Commodity Storage Requirements	
Type of Commodities/Produce	
Ideal / Recommended Storage Conditions	
- Temperature (DB in OC)	
- Humidity RH (%) Range	
- Air Circulation (CMH/MT of Produce)	
- Ventilation (Air Changes/Day)	
- CO2 Range (PPM)	
- Produce Cooling Rate (OC/day)	
- Freezing Point OC	
- Others	
Cold Chamber Dry bulb (DB in OC)	
Cold Chamber RH (%)	
Max Storage period (months)	
Max product temp (OC)	
- at the time of loading	
Daily loading rate (MT/day)	
- in each cold chamber	
Loading Period (months)	
Pull down rate (OC / day)	
Unloading Period (months)	
Daily unloading rate (MT/day)	
- from each cold chamber	

Signature of applicant



राष्ट्रीय बागवानी बोर्ड
National
Horticulture Board

Ante Room Conditions (T OC & RH %)	
Sorting & Grading Area (T OC & RH %)	
Special Provisions	
– CIPC treatment for Process Potatoes	
Special Provisions – MA / Ethylene Control / Fumigation/ Fresh Air etc	

ii) Fresh Air / Ventilation System

Brief Description of CO ₂ Extraction / Ventilation System	
CO ₂ Concentration Control Range (PPM)	
Monitoring & Control Instrument – Type – Accuracy	
Ventilation Capacity (Max Air Changes/Day)	
Design Considerations for Energy Recovery and Preventing Wetting of Produce	

iii) Cold Store Chamber Sizing and Capacity

- i) No. of chambers:
- ii) Type : Mezzanine/ Palletized
- iii) Max Height of Building

Details	CSC 1	CSC 2	CSC 3	CSC 4
Total Capacity of Each Cold Store Chamber (MT)				
Internal Chamber Dimensions				
L x B x H (m)				
No. of mezzanine floors				
X Height (m) per floor				
Size & Weight of Bags or Boxes being stored				
Total number of Bags/Boxes stored in each Cold Store Chamber				

iv) Ante Room & Process Areas

Details	Length (m)	Width (m)	Height (m)
Ante Room			
Sorting & Grading Area			
Loading / Unloading dock			

v) Machine Room & Utility Areas

Details	Length (m)	Width (m)	Height (m)
Machine Room			
Office Area			
Toilets & Changing rooms			
Any other			

Signature of applicant

vi) Building & Construction Details

- Type of construction : Civil/ Pre-engineered Building

Type of External walls of cold chambers	
Type of Internal / Partition walls	
Type of Roof / Ceiling	
Type of Internal structure / Racks	
Type of mezzanine grating	
Types of Lighting fixtures in cold Chambers	
Types of Lighting fixtures in Process & Other Areas	

- Type of Insulation : Insulating Sheets / Metal Skin Composite panels

Type of Insulation	Wall External	Internal	Ceiling / Roof	Floor
Type of material EPS / Metal Skin PUF Composite Panels / XPS/ PUR, Others				
Relevant IS Code				
Density (kg/m ³)				
Thermal Conductivity at +10°C				
k value (W/m.K)				
Thermal diffusivity m ² /h				
Water vapour transmission rate, ng/Pa.sm, Max.				
Water absorption after 24h immersion, percentage by mass.				
Relevant IS Code of Practice for Thermal Insulation of Cold Store				
Total Insulation Thickness (mm)				
No. of layers &				
Thickness / layer (mm)				
Type of vapor barrier & thickness (microns)				
Type of Bituminous/Sticking Compound				
Type of Cladding / Covering/External Finish				
Locking/Fixing & Sealing System in case of Metal Skin Composite Panels				
Any other info				

Signature of applicant

viii) Cold Store Doors & Air Curtains

Type of Insulation	Details
No. of Insulated doors	
Type hinged / sliding	
Insulation Material EPS / PUF / Others	
Thickness of Insulation (mm)	
Type of cladding	
Size of door opening	
Provision of Strip curtains - nos. & overlap %	
Air curtains, if any	
Others	

ix) Material Handling

- **Proposed Practice :** Manual / Semi Automated /Automated

Procedure	Brief Description
Material Handling Procedures & Equipments	
Cap of Electric Elevator Rating of motor (kW)	
Any other device	

x) Grading, Sorting, Washing & Packing Line (optional)

- **Proposed Practice :** Manual / Semi Automated /Automated

Procedure	Brief Description
Process Line	
Total Connected Load (kw)	

Please attach a Plan & Layout of the proposed Cold Store unit in accordance to the Statutory Building By-Laws and BIS Building Codes & Standards duly approved by a Registered Architect and Structural Engineer. The drawings should detail out insulation type, thickness, and fixing methodology in sectional details.

C. Heat Load Calculation of Cooling System - Summary

Ambient Conditions	Summer	Monsoon	Winter
Dry Bulb Temperature (°C)			
Wet Bulb Temperature (°C)			

Refrigeration Load	During Loading (kW)	During Pull Down (kW)	During Holding (kW)
Transmission Load			
Product Load			
Internal Load			
Lighting load			
Occupancy load			
Infiltration Load			
Ventilation/ Fresh Air Load			
Equipment Load - Fan motors etc.			
Total Load (kW/24 hrs)			

Signature of applicant

Compressor Operation Hours/Day	Loading Period		
	Pull Down Period		
	Holding period		

Multipliers	Safety Factor		
	Defrost Period		

Total Refrigeration Load	Peak Period	Holding Period	Lean Period
Total Load (KW)			

Please attach detailed heat load calculation sheets of the proposed cold store unit in accordance to the prescribed Technical Standards and Guidelines duly approved by a Qualified Engineer.

D. Cooling System Design & Equipment Selection

i) Cooling System Configuration

Type of Refrigerant	Ammonia / Freon / Others
Type of System	Direct Exp / Gravity Feed / Overfeed
Type of compressor	Reciprocating / Screw / Scroll / Others
Type of capacity control	Automatic In steps / Step less
Type of condenser	Atmospheric / Evaporative / Shell & Tube / Plate Heat Exchanger / Other
Cooling Towers (if applicable)	FRP Induced Draft / Others
Type of cooling coil	Ceiling suspended / Floor Mounted / Others
Type of defrosting	Air / Water / Electric / Hot gas
Humidification System & Control	
(Brief Description)	

ii) Compressor Detail

Compressor Make & Model	Nos.	Comp. RPM	Operating Parameters Evap. SST. / Cond. Temp (°C)	Refrigeration Capacity (KW)	Motor Rating. (KW)	Total Electric Power. (BkW)	Remarks Working / Standby

iii) Condenser Details

Compressor Make & Model	Nos.	Operating Parameters Cond.Temp.(SDT)/ in/ out water temp(°C) & flow (lps)	Condenser Capacity (kW)	Electric Fan / Pump Motor Rating (kW)	Total Electric Power (BkW)	Remarks Working / Standby

Signature of applicant

iv) Cooling Tower Details (if applicable)

Cooling Tower Make & Model	Nos.	Operating Parameters DB & WB Temp, in/out water temp(°C)	Cooling Tower Capacity (KW)	Fan & Pump Capacity (CMH/LPS) & Motor (kW)	Total Electric Power (BkW)	Remarks Working / Standby

v) Air Cooling Units (ACU)

ACU Make & Model	Nos.	Operating Parameters Evap. (SST) & TD* (°C)	Cooling Capacity (kW)	Air Flow (CMH) & Face Velocity (M/S)	Material of Coil Tubes & Fins	Fin pitch (mm)	Total Fan Electric Power (BKW)

(*) TD – Temperature difference between Evap. (SST) °C & Return Air (at coil inlet).

Please attach Detailed Technical Data Sheets of each equipment namely Compressors, Condensers, Cooling Towers, Air Cooling Units giving General Layout, Dimensions, Material of Construction, Rated Capacity, Operating Parameters and COP (please note that the Air Cooling Unit data sheet should include heat transfer area, fin spacing, no. of rows, air flow, face velocity, fan static, air throw, Fan Motor BKW/KW, fin spacing, etc) duly Certified by the respective equipment manufacturers with reference to the Relevant Codes & Standards.

Electrical Instillation

Total Connected load (kW)	
Estimated power requirement at Peak Load Period (BkW)	
Estimated power requirement at Holding Load Period (BkW)	
Estimated power requirement at Lean Load Period (BkW)	
Capacity of Transformer (KVA)	
(proposed)	
Size of Capacitor for power factor	
correction & their operation	
Make & Capacity of standby	
D.G.Set (KVA)	

Signature of applicant

E. Safety Provisions

Details of Fire Fighting equipment	Dry	
	Water based	
Handling Refrigerants & Leaks	Leak Detection	
	Handling measures	
Safety devices – LP/HP cutouts, safety valves, shut off valves etc.		
Details of Emergency alarm system		
& push button system in cold chambers		
Emergency lighting in Cold chambers & other areas		
Lightening arrestors		
Any other safety provisions		

F. Codes & Standards Followed

Building Design & Structure	
Construction Materials	
Thermal Insulation & Application	
Refrigeration Equipment & Systems	
Electrical & Mechanical Systems	
Food Safety	
Others	

F. Codes & Standards Followed

Details of Energy Saving devices	Brief Description and Savings
Light Fixtures CFL/LED	
Natural Lighting for general areas	
VFD for fans / compressors	
Refrigerant Controls and Automation	
Air Purger	
Power Factor Controller	
Energy recovery heat-exchanger for Ventilation System	
Renewable/ Solar Energy e.g. PV lighting	
PLC Control, & Data Acquisition	
Any other features e.g. water recycling, rain water harvesting ...	

Signature of applicant



H. Operation & Maintenance

Description	Nos. / Details
Proposed staff for Operation & Maintenance	
Proposed Annual Maintenance Contracts (if any)	
Training & Preventive Maintenance procedures	
Sanitation & Hygiene practice	
Pollution Control	

I. Estimated Performance Parameters of Proposed Cold Store

Parameters	Peak Period	Holding Period	Lean Period
Coefficient Of Performance (COP)			
Of the Cold Store Unit			
Power Consumption (KWH/Day)			
Total Electricity Cost (Rs/Day)			
Electricity Cost towards Storage (Rs/ MT /Day)			

J. Other Information

Place :

Date :

Signature and
Name of Applicant with seal

Place :

Date :

Name in Capital Letters
Signature & Seal of Consultant
Who has designed Cold Storage
And is going to provide supervision
during Construction and commissioning

FORMAT-I-C

Application for assistance under scheme "Technology Development and Transfer for Promotion of Horticulture"

1. Application Type
(Registered Society, NGO, Company,
Association of Growers/Industry, SAU/R&D Institution/
Government/Public Sector)
2. Applicant Organization Name
3. State
4. Project Address
5. Correspondence Address :
6. Name of Contact Person
7. Phone No.
8. Mobile No.
9. Email ID
10. Date of Filing of Application
11. Project Implementation period From To
12. Components for which assistance required (Please tick appropriate component)
 - i. Setting up of block/mother plant and root stock nursery (Area above 4 ha)
 - ii. Acquisition of technologies including import of planting material from other countries for evaluation and mass multiplication in order to increase production & productivity of horticulture crops
 - iii. Import/procurement of machines and Tools for horticulture for demonstration purpose
 - iv. Development & Transfer of Technology
 - v. Long Distance Transport Solution
 - vi. Product Promotion and Market Development Services- Horti-Fairs
 - vii. Exposure visit of farmers (Outside State)
 - viii. Visit Abroad for Government Officers
 - ix. Organization/Participation in Seminar/symposia/workshop for development of horticulture
 - x. Accreditation and Rating of Fruit Plant Nurseries
13. Details of Proposed Activity (Brief of Project justifying eligibility of assistance in the scheme guidelines)
14. Project cost indicating major items of investments
15. Source of Funding
16. Names and designation of resource persons, if any
17. Documents to be attached
 - i. Application form in prescribed format (Format-I)
 - ii. Undertaking in prescribed format (Format-II)
 - iii. Detailed Project Report/ Brief report on activity proposed.
 - iv. Bye Laws/ Memorandum & Article of Association/ organization-whenever applicable
 - v. Justification for the proposed project programme /event.

Signatures of the Authorized Person

Undertaking

We undertake that our organization has availed financial benefits under the Technology Development and Transfer Scheme of National Horticulture Board during the period of last years, as per details given below and submitted final utilization certificate :-

S.No.	Name of the event	Month and Year of Event	Amount of Assistance availed	Final utilization certificate given or not	Date of UC sent to NHB

We also undertake that expenditure of above amount have been duly audited as per rules of audit prescribed by government in this regard.

We also undertake that financial assistance only in the following schemes of Central Government is being availed for the same project:-

Name of the Scheme	Nodal Officer of the Scheme with contact details	Amount of assistance being taken/applied for

Signatures of the Authorized Person

FORMAT-II-A

Claim letter of Bank for release of Estimated (Tentative) subsidy
 Name & Full Address of the FI/Bank (on letter head)

To
The State In charge
National Horticulture Board
 State.....

To,
The Area Officer & Deputy Director
National Horticulture Board
 Plot-85, Sector-18, Gurgaon, 122015

Subject : Tentative Subsidy claim in respect of the project of _____

Sir,

With reference to Board's circular No. NHB/CC/Revised Guidelines/2013-14 dated 09/12.12.2013, it is, hereby, recommended that NHB should release the 100 % estimated (tentative) back-ended subsidy in respect of project of _____ Village _____ District _____ State _____. Till now our bank had released % of term loan to this project. Original or attested copies of following documents are being enclosed herewith:

Sr. No.	Particulars	Yes/No
1	Financial appraisal from the Banks/FIs	
2	Term loan sanction letter issued by the bank with detailed terms and conditions.	
3	Term loan disbursement details for the project	
4	Undertaking from promoter (as prescribed by NHB)	
5	Certificate of Release of at least 50% of term loan into Bank's loan account of project.	

It is certified that:

- I. The information/documents furnished with tentative subsidy claim are true to the best of my knowledge and belief and no material fact has been concealed.
- II. The term loan in the project is not sanctioned for one or few components but for whole of the project as appraised.
- III. Activity and component considered in the project for loan are new. No old plantation or component is recommended for consideration of subsidy.
- IV. Loan has not been given as advance or as re-imbursement of expenditure already incurred by the promoter.
- V. No subsidy/grant-in-aid from other agencies of Govt. of India has been availed/is proposed to be availed for this project or components thereof.
- VI. The original of above documents pertaining to the projects are kept in Bank/FI, which can be shown at the time of random monitoring by the Board or any agency authorized by the Board.
- VII. The subsidy so granted by NHB to the bank shall be deemed as estimated (tentative) only and it would be kept in Bank's subsidy Reserve Fund Account number.....and shall not be credited into

the promoter's account. Only such amount shall be transferred /adjusted which, after completion of the project, NHB advises to the Bank in writing and remaining amount would be transferred by Bank in NHB's account within 30 days.

- VIII. As soon as project is complete and ready for Joint Inspection after release of full term loan, Bank will file final subsidy claim for this project. The project is likely to be ready for Joint Inspection by
- IX. In case the project is not completed within 18 months from the date of release of tentative subsidy, Bank would refund subsidy to NHB expeditiously or not later than 30 days from such period.

(Signature of the Bank Officer with Seal)

Name : _____

Name of the Bank : _____

Address : _____

Phone/Fax/Mobile No.:

E-mail :

Place: _____

Date: _____

FORMAT- II-B**(Forwarding letter of Bank for Conducting JIT)****Name & Full Address of the FI/Bank (on letter head)**

To
The Area Officer
National Horticulture Board
Plot-85, Sector-18, Gurgaon, 122015

To
Officer In-charge
National Horticulture Board
(Name and address of centre)

Subject : Request for Joint Inspection of the project**Sir,**

Board had released Rs. as back-ended subsidy in respect of project of _____
 Village _____ District _____ State _____ Vide letter no As per instruction, the subsidy amount has been kept in Subsidy Reserve Fund account of the bank and interest benefit is being passed on to the beneficiary. Now project is complete as per original proposal and we have also disbursed full Term loan sanctioned for the above mentioned project. In addition to documents submitted by bank at the time of claim of subsidy such as copy of the Appraisal Note, Term Loan sanction letter, copy of Record of Right, following documents required for Joint Inspection are being submitted with the request to conduct Joint Inspection of the project to decide final subsidy claim.

S. No	Particulars	Yes/No
1	Details of date-wise release of term loan	
2.	Completion certificate by Bank/FIs	
3	Undertaking from promoter (as prescribed by NHB)	
4	Statement of vouchers examined / copy of CA Certificate, used for assessing component wise cost and project cost	
5	Copy of RC in case of tractor, etc.	
6	Extract of subsidy reserve fund account of bank in which estimated subsidy has been kept	

It is certified that the original of above documents and documents submitted at the time of subsidy claim by bank pertaining to the projects are kept in Bank/FI, which can be shown at the time of random monitoring by the Board or any agency authorized by the Board.

(Seal and Signature of the Bank's Officer)**Name :** _____**Name of the Bank :** _____**Address :** _____**Phone/Fax/Mobile No.:** _____**Place :** _____**Date :** _____



FORMAT II-C

Undertaking TO BE GIVEN WITH SUBSIDY CLAIM FORM

(APPLICABLE FOR COMMERCIAL HORTICULTURE AND COLD STORAGE SCHEME)

I/we (Name of the promoter/Director) Son of Mr.....(father's name)
resident of (residence address) do hereby solemnly affirm and declare/undertake as
under:

1. That I/we am/are individual grower/promoter/director/partner/group of growers/
association of growers/proprietor of M/s (name of beneficiary)
having its Registration no. Registered Office at (office
address of beneficiary).
2. I hereby make application and I am duly authorized in my own right/by management vide
its resolution no.datedto apply and sign all required documents including
this undertaking on behalf of company/partnership firm/cooperative society named as
..... ; and am fully aware of the facts relating to the setting up the project at Survey
No., Village....., Tehsil....., District.....State..... (location of the
project) for (activities to be undertaken by project) and application is being
made to NHB under the scheme "
....."
3. That the term and conditions of the scheme of NHB under which an application is made by
the applicant have been properly read and understood by me and I affirm that the project/
proposal/scheme comply with the terms and conditions of NHB and the application is made in
the correct applicable scheme.
4. That the proposed activities to be undertaken by the project/proposal scheme are covered
under the above scheme of NHB and no part of the scheme/infrastructure of the project is
designed or assigned to be used for any activity other than the horticulture activities specified
in the application at present or in the near future.
5. That the information provided in the application is true and correct to the best of my
knowledge and belief. The estimate of the cost of project/proposal/Scheme, financial viability
and operating results have been worked out/computed as per the rule and generally accepted
principle and norms in this regard.
6. No subsidy/grant-in-aid other than shown in application form has been availed/is to be availed
by the promoters/ directors/partners/proprietors for this new project and component thereof
from Central Govt. or any of its agencies Except the NHB.
7. Myself or any other promoter of Cooperative Society, Partnership Firm, Self Help Group has
not availed any subsidy from NHB which has not been disclosed in the application.

8. I/we also solemnly affirm/undertake that the proposal activity in the application is a completely new activity and not a pre-existing activity or any component thereof.
9. In case of concealment of any facts in this regards, the Board would have right to reject my application out right at any stage.

Date : _____

Signature of the Applicant/Authorized Person

Place: _____

FORMAT III-A

Joint Inspection Report

Scheme "Development of Commercial Horticulture through Production and Post Harvest Management" of National Horticulture Board (NHB)

- To be signed on each page by the Inspecting Officer of the Bank and the beneficiary
- To be signed on each page by all the members of Joint Inspection Team and the beneficiary.
- Expert's signature required in case of ripening Unit or only in cases where such members form part of JIT.

- Name and address of the Project : _____
- (i) Date of Inspection of the project : _____
 - (ii) Date of receipt of subsidy claim : _____
- Name & designation of the Inspecting Officer(s):
 - a) _____
 - i) _____
 - ii) _____
 - iii) _____
- b) Name of promoter/representative of promoter : _____
and relationship with promoter _____
- Name and address of the Bank : _____
- Particulars of 100 % Subsidy released by NHB
 - i) Date of claim by Bank _____
 - ii) Date of release by NHB with details _____
 - iii) Date of Subsidy reserve fund account of bank where subsidy is kept _____
- Date of start of the project : _____
- Date of plantation (if applicable) : _____
- Date of completion of the project : _____
- Date & amount of sanction of Term Loan: _____
- Date-wise details of releases of term loan:-

Date	Amount (Rs.in lakhs)
i) _____	_____
ii) _____	_____
iii) _____	_____
Total _____	

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)

Name & Signature
of Expert

11. Name and address of the beneficiary/es : _____
 (With telephone no., if any) _____
- 11a. Constitution : Individual/group of
 Individuals/ Society/
 Partnership firm/Pvt. Ltd.
 Company/Public Ltd. Company
- 11b. Reg. Number in case of Partnership
 firm/Pvt./Public Ltd./Society etc. : _____
12. Full address of the Project site : _____
 (including Khasara/Survey No.) _____
13. Land details
- i) Whether land is in the name of promoter Yes/No
- ii) Whether land is a Regd. Lease land for
 minimum 10 years in favour of applicant Yes/No
 (in case of lease land)
- iii) Whether any subsidy has been availed earlier Yes/No
 from the NHB for any project on same location land.
 If yes, please indicate the year and amount of subsidy.
- iv) Whether the promoter has applied for subsidy under
 National Horticulture Mission (NHM) or any other
 central schemes of subsidy for the same project
 or any component of it
14. Nature of activity - Hi-tech cultivation/ PHM/ marketing/ Primary
 Processing / Tissue Culture/Nursery etc.

15. In case of plantation / cultivation (crop-wise details) :

S.No.	Name of the Crop	Variety	Area under project (Acres)	Source of planting material	No. of plants	Project cost	Total expenditure for crop
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)
i.			1				
ii.							
iii.							
iv.							
Total							

Name & Signature
Of ApplicantName & Signature
of Inspecting Officer
(NHB)Name & Signature
of Inspecting Officer (Bank)Name & Signature
of Inspecting Officer
(State Horti Deptt. or Central Govt.)Name & Signature
of Expert

16. Means of finance

(Amount in Rs.)

Particulars	Proposed as per Bank appraisal	As per Actual of final project
Promoter's share		
Bank/FI term loan		
State Govt. Subsidy, if any		
Subsidy from other sources, if any		
Total project Cost		

Note:

- (i) Project will not be eligible for consideration, if subsidy from any organization of Govt. of India is availed/to be availed for the same project.
- (ii) In case of actual cost is less than appraised cost inspite of completion of essential project components such as PHM, Micro Irrigation, Fumigation, Quality Planting Material, etc. The project cost will be decided by the NHB as fact of case.

17. Term loan account number of the Project/beneficiary : _____
18. Repayment period of term loan : _____
19. Subsidy reserve fund account no. of bank : _____
20. Details of component-wise cost in the project

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt. or Central Govt.)

Name & Signature
of Expert

(A) In case of Cultivation related projects

S.No	Component	Proposed Expenditure as per LOI	Cost as appraised by Bank before term loan sanction	Cost assessed by inspection Team / JIT	Remarks
1	Cultivation expenses i) Cost of planting material (Number with cost per plant) ii) Manures & fertilizers iii) Insecticides & pesticides iv) Others, if any, please specify				
	Cost of labour				
2	Irrigation				
	i) Tube-well/submersible pump(No's) ii) Cost of pipeline (Length & size & material) iii) Others, if any, please specify				
3	Cost of Drip/Sprinkler				
4	Infrastructure				
	i) Store & pump house (Area in sq. ft with size) ii) Labour room & godown(Area in sq. ft with size) iii) Tractor Agriculture equipments iv) Others, if any				
5	Land Development				
	i) Soil Leveling ii) Digging iii) Fencing iv) Others, if any				
6	Land , if newly purchased (please indicate the year)				
	Grand Total				

(B) In case of other kind of projects :

S.No	Component	Proposed Expenditure as per LOI	Cost as appraised by Bank before term loan sanction	Cost assessed by inspection Team / JIT	Remarks

Note:

- (i) Land development cost : Actual or upto 15% of the Eligible Project Cost (excluding cost of Land & Land Development) whichever is less subsidy to maximum of Rs 50,000./- per acres.

Name & Signature
Of ApplicantName & Signature
of Inspecting Officer
(NHB)Name & Signature
of Inspecting Officer (Bank)Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)Name & Signature
of Expert

- (ii) Land Cost: Actual or up to 10% of Eligible Project Cost (EPC) excluding cost of Land & Land Development) whichever is less.
 - (iii) Tractor / Power tiller with accessories allowed for project having area larger than 5 acres with maximum cost ceiling of Rs 6.00 lakh or actual basis.
 - (iv) Admissible cost as assessed by the Inspection Team / JIT should not be more than the cost appraised by the Bank while sanctioning the term loan for the project. In specific cases where assessed cost is higher than the appraised cost the details be given in remarks column.
21. In case of expansion project, brief description of the existing project/scheme; if not already included in project appraisal report
 22. Present commercial status of the project clearly mention the marketing tie-up, if any.
 23. Other relevant information: Details of previous releases of subsidy by Board, if any.
 24. Recommendation of the Inspection Officer (the amount of assessed cost and eligible subsidy may be specified) in words.

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt. or Central Govt.)

Name & Signature
of Expert

FORMAT III-B

Joint Inspection Report*

***To be signed on each page by all the members of Joint Inspection Team and the beneficiary**
Scheme 2:- Capital Investment Subsidy Scheme for Construction/expansion/modernization of
Cold Storages/Storages of Horticulture Produce

1. Name of Cold Storage : _____
2. Date of receive of Project : _____
3. Date of issue of LOI by the Board : _____ Control No. _____
4. Type of Activity: - Cold Storage/CA Storage/Modified Storage/Onion Storage/
Modernization of Existing Storage : _____
5. Name and Postal address of the Company : _____
(With telephone no & E-mail ID)
6. Name of CEO of Company/ MD : _____
- 7a. Constitution: Individual/group of Individuals/
Society/ Partnership firm/Pvt. Ltd. Company
/Public Ltd. Company _____
- 7b. Reg. Number in case of Partnership firm/
Pvt./Public Ltd./Society etc. : _____
8. Name of Manager / Contact Person _____
9. Date of Inspection of the project: _____
Date of receipt of subsidy claim
10. Name & designation of the Committee members:
 - a)
 - i) NHB officer Name & Designation _____
 - ii) Technical Expert Name & Address _____
 - iii) Bank's Officer Name & Designation _____
 - iv) State/Centre Govt. officer
& Representative other _____
 - v) Promoter _____
 - b) Name of promoter/representative of : _____
promoter and relationship with promoter

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt. or Central Govt.)

Name & Signature
of Expert



राष्ट्रीय बागवानी बोर्ड
National Horticulture Board

11. Name of the Bank (With full address and phone and Fax number) : _____

a) Subsidy reserve fund account no. of bank : _____
Term loan a/c no. of promoter

12. Date of start of the project : _____

13. Date of completion of the project : _____

14. a) Date & amount of sanction of Term Loan : _____

b) Repayment Period : _____

15. Date-wise details of releases of term loan:-

Date Amount (Rs.in lakhs)

i) _____ ii) _____ iii) _____ iv) _____

Total _____ (% of T.L. of Total Project)

16.

Full address of the Project site Location of Cold Storage	Area / Village Gat/Sy. No. District	Taluka/Tahsil State
--	---	------------------------

17. Land details

i) Whether land is in the name of promoter Yes/No

ii) Whether land is a Regd. Lease land for minimum 10 years in favour of applicant (in case of lease) Yes/No

iii) Whether any subsidy has been availed earlier from the NHB for any project on same location land. If yes, please indicate the year and amount of subsidy. Yes/No

iv) Whether the promoter has applied for subsidy under National Horticulture Mission (NHM) or any other central schemes of subsidy for the same project or any component of it Yes/No

17a. Cold Store Chamber Sizing and Capacity:

i) No. of chambers : _____

ii) Size of Chambers

1) _____ 2) _____ 3) _____ 4) _____

iii) Type : Mezzanine/ Palletized _____

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)

Name & Signature
of Expert

Details	Chamber-1	Chamber-2	Chamber-3	Chamber-4	Chamber-5
Total Capacity of Each Cold Store Chamber (MT)					
Internal Chamber Dimensions (LxBxH) Meters					
No. of mezzanine floors					
X Height (m) per floor					
Size &Weight of Bags or Boxes being stored in mm./kg.					
Total number of Bags/Boxes stored in each Cold Store Chamber					

Technical Deviations

Sr. No.	Section	Deviation	Pending work	Remark
1	Insulation			
2	Refrigeration system			
3	Ventilation system			
4	Fire fighting system			
5	Miscellaneous items			
6	Electrical items			

Name & Signature
Of ApplicantName & Signature
of Inspecting Officer
(NHB)Name & Signature
of Inspecting Officer (Bank)Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)Name & Signature
of Expert

LOG SHEET COLD STORE - Compressor

TO BE FURNISHED BY THE PROMOTER

Please fill separate sheet for separate Compressor

DATE.:

COMPRESSOR - 1 / 2 / 3 / 4

Time	Suction Pressure kg / cm ²	Oil Pressure. Kg/cm ²	Discharge pressure kg / cm ²	% loading	Current in AMPS	Voltage in volts	Power Factor	Oil level in oil separator	Remark
6:00									
7:00									
8:00									
9:00									
10:00									
11:00									
12:00									
13:00									
14:00									
15:00									
16:00									
17:00									
18:00									
19:00									
20:00									
21:00									
22:00									
23:00									
0:00									
1:00									
2:00									
3:00									
4:00									
5:00									

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)

Name & Signature
of Expert

COLD STORE

To be filled by Promoter

Date.:

Please fill separate sheet for separate Cold Storage

Cold Storage no, 1/2/3/4

Time	Temp. 0 C	R.H.%	CO2 %	Fan Current	Ante room temp/RH %
6:00					
7:00					
8:00					
9:00					
10:00					
11:00					
12:00					
13:00					
14:00					
15:00					
16:00					
17:00					
18:00					
19:00					
20:00					
21:00					
22:00					
23:00					
0:00					
1:00					
2:00					
3:00					
4:00					
5:00					

Name & Signature
Of ApplicantName & Signature
of Inspecting Officer
(NHB)Name & Signature
of Inspecting Officer (Bank)Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)Name & Signature
of Expert

TEST READINGS

Date

TO BE FILLED DURING INSPECTION

S.No.	Item	Compressor 1	Compressor 2	Compressor 3	Compressor 4
1	COMPRESSOR				
	Suction pressure - Kg/cm ²				
	Discharge pressure - Kg/cm ²				
	Oil pressure - Kg/cm ²				
	Compressor Motors - Amp				
2	EVAPORETIVE CONDENSER				
	Pump motor -- Amp				
3	CS- INFORMATION				
	Air Cooling Units				
	Fan Amps				
	Air Flow Cmh				
	Temperature D.B. deg. C				
	RH - %				
4	Heat Recovery Wheel				
5	CO₂ Level Monitoring SYSTEM				
6	Fresh Air Ventilation System				
7	Others. As per attached sheet.				

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt. or Central Govt.)

Name & Signature
of Expert

Final Check List			
SN	Description	Observation	Remark.
1	Cold chamber size (lxbxht.in mtrs.)		
2	Utility Area sizes (lxbx ht. in mtrs.)		
2.1	Ante room		
2.2	Loading/unloading dock		
2.3	Sorting grading area		
2.4	Machine room.		
2.5	Office area		
2.6	Toilet & changing room		Whether space is adequate. - YES / NO.
2.7	D. G.Rating		
2.8	Transformer Rating.		
2.9	Any other utility area.		
3	Internal structure type		
4	Grating type		
5	Termite treatment	YES / NO.	
6	Insulation:-		
6.1	For external wall - Mat. / thick.		
6.2	For internal wall -- Mat. / thick.		
6.3	For roof/ceiling -- Mat / thick.		
6.4	For floor -- Mat. / thick.		
6.5	Density of insul. Mat.		
7	Vapour barrier	Checked earlier in insulation inspection.	
8	Cladding	Checked earlier in insulation inspection.	
9	Insulated Doors - leakage observation by observing condensation on frame.		
10	Strip / Air curtains		
11	VFD provision for ACU.		
12	Power factor controller		
13	Electrical power distribution.		
14	Control panel, Safeties included.		
15	Earthing		
16	Lightning arrestor		
17	Safety provision		
17.1	Fire fighting - Dry / Water base	NOC obtained YES / NO.	

 Name & Signature
Of Applicant

 Name & Signature
of Inspecting Officer
(NHB)

 Name & Signature
of Inspecting Officer (Bank)

 Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)

 Name & Signature
of Expert



18	Refrigerant handling & leaks		
18.1	Leak detection sensors		
18.2	Water sprinklers in plant room		
18.3	Hear Recovery Wheel		
18.4	Emergency ventilation system		
18.5	Water tank/tap/basin near plant room		
18.6	Ammonia mask		
19	Safety instruction display in plant room		
20	Emergency alarm on inverter		
21	Push buttons in cold rooms for alarms		
22	Emergency lighting		
23	Air purger		
24	Operation & Maintainance	Operators present ?	
25	COP- Actual calculation.		

FINAL INSPECTION REPORT FORMAT FOR COLD STORE**TO BE FURNISHED BY THE PROMOTER.****Date:**

S.No.	Item	CS 1	CS 2	CS 3	CS 4	Remark
1	AIR COOLING UNIT					
	a) Make					
	b) Model					
	c) Capacity in KW at given rating					
	d) Total Air flow capacity CMH					
	e) No. of Fans					
	f) Fan Motor KW					
2	CONTROLS					
	a) Expansion Valves (Make & Type)					
	b) Solenoid Valves (Make & Type)					
	c) Temp.Indicator. cum Controller Make & Type					
	d) Other Controls					
3	ELECTRICAL EQUIPMENT					
	a) Make of MCB					
	b) Make of Starters					
	c) Make & Rating of capacitor pane					
	d) Other Item					

Name & Signature
Of ApplicantName & Signature
of Inspecting Officer
(NHB)Name & Signature
of Inspecting Officer (Bank)Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)Name & Signature
of Expert

4	Condenser					
	a) No. of rows					
	b) No. of pipes / row					
	c) Size of pipe					
	d) Length of pipe					
	e) Pump KW					
	f) Water flow rate in LPM.					
5	Compressor					
	a) Make					
	b) Model					
	c) Capacity @ +2/38 Deg C.					
	c-1) Capacity @ (-) 2 / 38 Deg. C.					
	d) Discharge pressure.Kg./ Cm2					
	e) Suction pressure.In Kg./ Cm2					
	f) Oil pressure.Kg./ Cm2					
	g) Comp. motor KW.@+2/38 Deg.C.					
	h) Comp. RPM					
6	Compressor motor	No :-1	No :-2	No :- 3	No :- 4	
	a) Rating In KW.					
	b) Full load current in Amps.					
7	Condenser water pump motor					
	a) Rating In KW.					
	b) Full load current In Amps.					
8	ACU Motor					
	a) Rating In KW.					
	b) Full load current.In Amps.					
9	Ammonia Pump motor					
	a) Rating In KW.					
	b) Full load current.In Amps.					

Means of finance

(Amount in Rs.)

Particulars	Proposed as per DPR	Proposed as per Bank appraisal	As per Actual of final project
Promoter's share			
Bank/FI term loan			
State Govt. Subsidy, if any			
Subsidy from other sources, if any			
Total project Cost			

Name & Signature
Of ApplicantName & Signature
of Inspecting Officer
(NHB)Name & Signature
of Inspecting Officer (Bank)Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)Name & Signature
of Expert

Details of component-wise cost in the project:-

S.No.	Component	Proposed Expenditure as per LOI	Cost as appraised by Bank	Actual Exp. as per CA certificate	Cost assessed by (JIT (EPC	Remarks
1.	Cost of Land					
1.	Building					
i)	Cold Storage Building (Size-L×W×H) total covered area					
ii)	Ante room (Size- LxWxH) total area					
iii)	Building for sorting grading/ Packing (component details)					
iv)	Boundary wall					
v)	Machine room					
vi)	Office room					
vii)	Labor roomviii) Etc.					
2.	Plant & Machinery					
i)	Cost of Machinery (with details)					
ii)	Insulation Cost					
3.	Electric Installation (Component wise					
4.	Office Equipments & furniture					
5.	Pre-operative Expenses, if any.					
6.	Working Capital, if any					
	TOTAL					

A.) Present commercial status of the project clearly mentions the marketing tie-up, if any.

B.) Other relevant information: Details of previous releases of subsidy by Board, if any.

C.) Recommendation of the Inspection Officer

(The amount of assessed cost and eligible subsidy may be specified) in words.

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)

Name & Signature
of Expert

Details of sanctions by Financial Bank

1. Name of the Colds Storage Unit-
2. Address-
3. Subsidy Proposal- New Unit/Expansion/Modernization
4. Name of financing Bank-
5. Address of the financing bank-
6. Telephone/Fax no.(with STD codes)-
7. Company/Firm's Banks's Term Loan A/c no.

Sanctions	Amount (Rs. in Lakh)	Date of Sanction	ROI%
-----------	----------------------	------------------	------

i) Term Loan(1st)

ii) Term Loan(2nd)

Disbursements	Amounts (Rs in Lakh)	First Date	Last Date
---------------	----------------------	------------	-----------

i) Term Loan(1st)

ii) Term Loan(2nd)

Total Term Loan amount outstanding as on date of study Rs. Lakh

Whether the repayment is/are regular: Yes/No

Name of officer to be associated with Inspection Team

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

Name & Signature
of Inspecting Officer
(State Horti Deptt.or Central Govt.)

Name & Signature
of Expert

FORMAT-IV-A

(Letter Head of the CA)

Draft of Certificate from Chartered Accountant (with membership no of CA) verifying the investment of funds by promoters under the scheme "Development of Commercial Horticulture through Production and Post Harvest Management"

The Managing Director
National Horticulture Board
Gurgaon.

We have examined the books of accounts and other relevant records maintained by M/s/Shri/Smt. _____ (Name of beneficiary) at its office situated at _____ (Address of office in respect of its project situated at _____ (Address of project) for _____ (project activity). These accounts are maintained by the Company's management, partners of the firm/proprietor of the concerned/grower/NGO and our responsibility is to verify the truth and fairness of these records and verification of amount expended for acquisition/construction of fixed assets/establishment and other expenditure.

We conducted our work in accordance with the Audits and Accounting Standards generally accepted in India. Those Standards require that we plan and perform our verification to obtain reasonable assurance about whether these accounts are true and fair are free of material misstatement. A verification included examining on 100% basis, evidence audit includes examining, on a test basis evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the grower, as well as evaluating the overall financial statement presentation. We believe that our audit provides reasonable basis of our opinion.

We verity that

- a) We have obtained all the information and explanation that to the best of our knowledge and belief were necessary for the purpose of our verification.
- b) In our opinion, proper books of accounts as required by law have been kept by the Company/ firm/ sole proprietorship concern/grower/NGO for the financial period _____ and these books of account represent true and fair view of the transaction entered into by the Company/firm/ sole proprietorship concern/grower/NGO.
- c) In our opinion, the Company/firm/ sole proprietorship concern/grower/NGO has incurred a capital expenditure amounting to Rs. _____ (Rupees _____ only) for acquisition/ construction of fixed assets and the same is being reflected properly in the books of accounts. The valuation made of major components of the project and whole project is tabulated as follows-

S.No.	Component	Proposed Expenditure as per Application/ DPR	Cost as appraised by Bank before term loan sanction	Cost assessed by CA	Remarks
1	Cultivation expenses				
	i. Cost of planting material (Number with cost per plant) ii. Manures & fertilizers iii. Insecticides & pesticides iv. Others, if any, please specify				
	Cost of labour				
2	Irrigation				
	i) Tube-well/submersible pump(No's) ii) Cost of pipeline (Length & size & material) iii) Others, if any, please specify				
3	Cost of Drip/Sprinkler				
4	Infrastructure				
	i. Store & pump house (Area in sq. ft with size) ii. Labour room & godown(Area in sq. ft with size) iii. Tractor Agriculture Equipments iv. Others, if any				
5	Land Development				
	i) Soil Leveling ii) Digging iii) Fencing iv) Others, if any				
6	Land , if newly purchased (please indicate the year)				
	Grand Total				

(Signature and seal of CA)

Date :

(B) In case of other kind of projects :

(Amount in Rs.)

S.No.	Component	Proposed Expenditure as per Lol	Cost as Appraised by Bank before term-loan sanction	Cost as assessed by CA	Remarks
	Total				

Total _____

(C) Means of Finance

Sl No.	Item	Project Cost as per DPR	Project Cost as per Appraisal Report	Actual Cost
01	Promoter's Equity			
02	Term Loan			
03	Unsecured Loan			
04	Grant from NHB			
05	Other's			
	TOTAL			

We recommend Rs.....as the cost of the whole project.

Signature and Seal of CA

Date:

FORMAT-IV-B

To

The Managing Director
 National Horticulture Board
 Plot 85, Sector-18, Gurgaon, 122015

Dear Sir,

I, hereby, request you to release estimated(tentative subsidy) back ended subsidy for the project whose particulars have been given below, by electronic transfer of fund. I undertake to apply it as back-ended subsidy only under terms & conditions of release of subsidy.

Particulars for Remitting Subsidy amount to Subsidy Reserve Fund	
A.	Particulars of Bank/FI
a.1	Name of Bank / FI .....Branch.....
a.2	Address
a.3	Contact No. : Phone: Mobile: email:
a.4	IFSC Code of Bank Branch
a.5	Whether RTGS enabled or not.....
B.	Particulars of BENEFICIARY of Project
b.1	Name.....
b.2	Address.....
b.3	Beneficiary's Contact No.
b.4	Location of the project :
b.5	Letter of Intent (LOI) No. :
C	Particulars of Bank's Subsidy Reserve Fund-
c.1	Subsidy Reserve fund account no. of Bank-
c.2	Remarks -
	----- (Branch Managers Name)
	Branch Seal Date : ----- (Signature of Branch Manager or his Authorized Signatory)

FORMAT-IV-C

Utilization Certificate

It is to certify that the Back ended capital investment subsidy amounting to Rs. _____ (Rupees _____ only) was received from the NHB on _____ vide Cheque/ Transaction No. _____, in the term loan a/c. of Mrs/Mr/M/s. _____ (full address of location of the project) _____ for their project for _____ (Activity with area/capacity, etc.), was kept in a subsidy reserve fund and has been adjusted in term loan account on _____ after the bank loan portion (excluding subsidy) is liquidated and properly utilized for the purpose it was sanctioned & released under the Board's scheme "Development of Commercial Horticulture through production and post harvest management".

**Signature of the Bank Officer/
Issuing Authority with seal**

Date :

CHAPTER-V

COST NORMS AND PATTERN OF ASSISTANCE

Appendix-1	Cost norms and pattern of assistance under MIDH for National Horticulture Board related activities during XII plan
Appendix-1-A (i)	Crop-wise/ Component –wise Cost norms in Project Mode for open field cultivation under NHB Scheme
Appendix-1-A (ii)	Crop-wise/ Component –wise Cost norms in Project Mode for protected cultivation under NHB Scheme
Appendix-1-B	Crop-wise/ Component –wise Cost norms in project mode for Protected cultivation under NHB Scheme
Appendix-1-C	Technology Add-on for integrated Commercial Horticulture projects in open field and protected cultivation
Appendix-1- D	Technology Add-on for CA and Modernization



राष्ट्रीय बागवानी बोर्ड
National Horticulture Board

APPENDIX- 1

COST NORMS AND PATTERN OF ASSISTANCE UNDER MIDH FOR NATIONAL HORTICULTURE BOARD RELATED ACTIVITIES DURING XII PLAN

S.No.	Item	Cost Norms*	Pattern of Assistance#
A.	Development of Commercial Horticulture ##		
A. 1	Commercial Horticulture Development in open field conditions, including components viz planting material, plantation, irrigation, fertigation, precision farming, GAP etc.	Rs. 75.00 lakh /per project (Rs 125.00 lakh for date palm, olive and saffron) for projects covering area over 2 ha.	Credit linked back ended subsidy @ 40% of project cost limited to Rs.30.00 lakh per project in general area and @ 50% of project cost limited to Rs. 37.50 lakh for NE and Hilly and scheduled areas. Component-wise/crop-wise cost norms are given at Appendix - 1. Add on component given in appendix-1-A may be added in project mode within over all cost ceiling
A. 2	Commercial Horticulture Development in protected cover.	Rs 112.00 lakh per project covering area above 2500 Sq.mt.	Credit linked back-ended subsidy @ 50% of cost limited to Rs.56.00 lakh per project.
	Protected cultivation		
	1. Green House structure		
	(a) Fan & Pad system	Rs. 1400/Sq. m and Rs. 1610/ Sq. m for hilly areas	50% of cost for above 2500 Sq.m
	(b) Naturally ventilated system		
	i) Tubular structure	Rs. 844/Sq. m and Rs.970/Sq. m for hilly areas.	50% of cost for above 2500 Sq.m
	ii) Wooden structure	Rs. 540/Sq. m and Rs. 621/Sq. m for hilly areas	50% of cost for above 2500 Sq.m
	iii) Bamboo structure	Rs. 450/Sq. m and Rs. 518/Sq. m for hilly areas	50% of cost for above 2500 Sq.m
	2. Shade Net House		
	(a) Tubular structure	Rs. 710/Sqm and Rs. 816/Sqm for hilly areas	50% of cost for above 2500 Sq.m
	(b) Wooden structure	Rs. 492/Sqm and Rs. 566/Sqm for hilly areas	50% of cost for above 2500 Sq.m
	(c) Bamboo structure	Rs.360/Sqm and Rs.414/Sqm for hilly areas	50% of cost for above 2500 Sq.m
	3.Plastic Tunnel	Rs.60/Sq.m and Rs.75/sq. m for hilly area	50% of cost for above 2500 Sq.m
4	Walk in Tunnel	Rs.600/ Sq. m	50% of cost for above 2500 Sq.m
5	Anti Bird/Anti Hail Nets	Rs.35/Sq.m	50% of cost for above 2500 Sq.m

6	Cost of Planting Material and cultivation of High Value vegetables grown in Poly House/Shade net House	Rs.140/Sq.m	50% of cost for above 2500 Sq.m
7	Cost of Planting Material and cultivation of Orchid and Anthurium grown in Poly House/Shade net House	Rs.700/Sq.m	50% of cost for above 2500 Sq.m
8	Cost of Planting Material and cultivation of Carnation & Gerbera grown in Poly House/Shade net House	Rs.610/Sq.m	50% of cost for above 2500 Sq.m
9	Cost of Planting Material and cultivation of Rose & Lilium grown in Poly House/Shade net House	Rs.426/Sq.m	50% of cost for above 2500 Sq.m
10	Plastic Mulching	Rs.32000/Ha and Rs.36800/Ha for Hilly Areas	50% of cost for above 2500 Sq.m
A. 3	Integrated Post Harvest Management Projects e.g. Pack House, Ripening Chamber, Refer Van, Retail Outlets, Pre-cooling units, Primary Processing etc.	Rs. 145.00 lakh per project. The add-on components of pre-cooling, pack house, grading, packing, cold room can be taken up as individual components.	Credit linked back ended subsidy @ 35% of cost limited to Rs.50.75 lakh per project in general areas and @ 50% of project cost limited to Rs. 72.50 lakh per project in NE, Hilly and scheduled Areas, ensuring backward and forward linkage.
Component wise cost norms of Integrated Post Harvest Management			
1	Pack house	Rs. 4.00 lakh/unit with size of 9Mx6M	50% of the capital cost.
2	Integrated pack house with facilities for conveyer belt, sorting, grading units, washing, drying and weighing.	Rs. 50.00 lakh per unit with size of 9Mx18M	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas for individual entrepreneurs.
3	Pre-cooling unit	Rs. 25.00 lakh / unit with capacity of 6 MT.	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas for individual entrepreneurs.
4	Cold room (staging)	Rs. 15.00 lakh/ unit of 30 MT capacity	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas
5	Mobile pre- cooling unit	Rs. 25.00 lakh	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas
6	Ripening Chamber	Rs. 1.00 lakh/MT (11 CuM of chamber volume shall be equivalent of 1 MT of storage capacity)	Credit linked back-ended subsidy @ 35% of the cost of project in general areas and 50% of cost in case Hilly & Scheduled areas



B	Capital Investment Subsidy Scheme for Construction/ Expansion/ Modernization of Cold Storage and Storages for Horticulture Products		
1	Cold storage units Type 1 - basic type with single temperature zone	<p>NHB to take up projects with Capacity above 5000MT upto 10000MT as per following rates.</p> <ul style="list-style-type: none"> • @ Rs. 8000/ MT for capacity upto 5000 MT • @ Rs. 7600/ MT for capacity between 5001 to 6500 MT. • @ Rs. 7200/MT for capacity between 6501 to 8000 MT. • @ Rs. 6800/MT for capacity between 8001 to 10000 MT. 	Credit linked back-ended subsidy @ 35% of the cost of project (50% in NE, Hilly Areas and scheduled areas) for capacity above 5000 MT.
2	Cold Storage Unit Type 2 - with multiple temperature zones and basic material handling equipment.	<p>NHB to take up projects with Capacity above 5000 MT upto 10000 MT as per following rates.</p> <ul style="list-style-type: none"> • @ Rs.10000/ MT for capacity upto 5000 MT • @ Rs. 9500/ MT for capacity between 5001 to 6500 MT. • @ Rs. 9000/MT for capacity between 6501 to 8000 MT. • @ Rs. 8500/MT for capacity between 8001 to 10000 MT. 	Credit linked back-ended subsidy @ 35% of the cost of project (50% in NE, Hilly Areas and scheduled areas) for capacity above 5000 MT.
3	Cold Storage Units Type 2 with add on technology for Controlled Atmosphere	<p>NHB to take up projects with Capacity above 5000MT upto 10000MT as per Type 2 rates given above. Additional Rs. 10,000/ MT for add on components of controlled atmosphere technology. (Components details at Appendix-II)</p>	Credit linked back-ended subsidy @ 35% of the cost of project (50% in NE, Hilly Areas and scheduled areas) for capacity above 5000 MT.
4	Technology induction and modernization of cold-chain	<p>Max Rs 500.00 Lakh @ Rs.5000/MT for maximum capacity of 10000 MT. (Component details at Appendix- II)</p>	Credit linked back-ended subsidy @ 35% of the cost of project (50% in NE, Hilly Areas and scheduled areas) for capacity above 5000 MT.
5	Refrigerated Transport vehicles	<p>Rs. 30.00 lakh for 15 MT, and prorata basis for capacities between 9 to 15 MT (3 cubic meters (cum) (104 cubic feet (cft). of chamber volume shall be equivalent of 1 MT of storage capacity</p>	Credit linked back-ended subsidy @ 35% of cost (50% in NE, Hilly Areas and scheduled areas)

C. Technology Development and Transfer for Promotion of Horticulture			
1	Setting up of block/ mother plant and root stock nursery (Area above 4 ha)	Rs. 100.00 Lakh/ha including virus indexing, tissue culture lab etc	Project based – 100% and only through Govt. agency/Public Sector The component includes mother block of scion and root stock, infrastructure for production of disease free planting material, creation of poly house, green house, net house, screen house, mist chamber, hot beds sterilization of media, working shed, tissue culture lab, referred lab, virus indexing facility, quality control lab, weather station, water supply, irrigation facility, fertigation unit, electric supply with generator, ETP, farm equipment/farm mechanization, tools, portrays, root trainer, container, computer system for data management and analysis etc.
2	Acquisition of technologies including import of planting material from other countries for evaluation and mass multiplication in order to increase production & productivity of horticulture crops	Rs. 50.00 lakh/project	Project based – 100% and only through govt. agency/PSUs)
3	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
4	Development & Transfer of Technology	Rs. 25.00 lakh/ project	100% of total cost and only through govt. agency
5	Long Distance Transport Solution	Project Based	Rs. 2000.00 lakh
6	Product Promotion and Market Development Services- Horti-fairs	Rs. 25.00 lakh	100% of cost by Central Nodal Agency
7	Exposure visit of farmers (Outside State)	Project based as per actual	100% of the cost.
8	Visit Abroad for Government Officers	Rs. 6.00 lakh per participant	100% of air / rail travel and course fee
9	Organization/Participation in Seminar/ symposia/ workshop for development of horticulture	Rs 10.00 lakh for international event/ Rs 5.00 lakh for national event/ Rs 3.00 lakh for state level event and Rs 0.50 lakh/- for District level event	50% of cost on actual basis for private agency and 100% for NHB's own events.



10	Accreditation and Rating of Fruit Plant Nurseries	Rs. 1.00 lakh / nursery	By Central Nodal Agency
D.	Market Information scheme		
D. 1	Market Information Services and Horticulture Statistics	Project based, as per of actual cost	By Central Nodal Agency
E.	Horticulture Promotion Services/Expert Services and strengthening capability of NHB	Project based, as per of actual cost	By Central Nodal Agency

* Cost norms are indicative and refer to upper limit of cost for calculation of subsidy.

Note: The release of back ended 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. Hilly Areas include those areas covered under Hill Area Development Programme and Western Ghat Development Programme of Planning Commission. Scheduled Areas include those areas notified by Planning Commission and State Governments. NE & Himalayan States refer to States in North East & Himalayan region covered under HMNEH scheme.

For projects on Development of Commercial Horticulture, subsidy need not be credit linked in North Eastern States and 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. Projects will have to be appraised by an appraising Agency.

APPENDIX- I-A

Cost norms for open field cultivation under NHB Scheme

Cost in Rs. per acre

Crop	Plant spacing (m)	No. of Plants/Acre	Planting material /Acre	Overall All ceiling in project mode with add on component
Almond	4.0 × 4.0	100	15000	150000
	3.0 × 3.0	177.76	26664	160000
Aonla	6.0 × 6.0	44.4	4003.2	125000
	4.0 × 5.0	80	7200	130000
	3.0 × 3.0	177.6	15984	170000
Apple	6.0 × 6.0	111.2	6672	150000
	4.0 × 4.0 (RS- MM 111)	250	15000	160000
	3.5x3.5 (RS- MM 111)	325.6	19536	175000
	3.0 × 3.0 (RS- MM 106)	444.4	26664	185000
	3.0 × 1.5 (RS- M9)	888.8	53328	200000
	2.5 × 2.5 (RS- MM 106)	640	38400	190000
	1.5 x 1.5 (RS- M9)	1777.6	106656	275000
Apricot	4.0 × 4.0	250	15000	160000
	3.5 × 3.5	326.4	19584	175000
Banana (Sucker)	2.0 × 2.0	1000	10000	125000
Banana (TC)	1.8 × 1.8	1234.4	20984.8	150000
	1.5 × 1.5	1777.6	30219.2	175000
Ber	6.0 × 6.0	111.2	3336	125000
	5.0 × 5.0	160	4800	125000
	4.0 × 4.0	250	7500	130000
Cherry	4.0 × 4.0	250	7500	125000
(a) Lime & Lemons	3.0 × 3.0	444.4	15998.4	200000
	4.0 × 4.5	222	7992	175000
(b) Mandarin / Orange	6.0 × 6.0	111.2	4003.2	175000
	5.0 × 5.0	160	5760	175000
	5.0 × 4.5	177.6	6393.6	175000
	4.5 × 4.5	197.6	7113.6	175000
	4.0 × 5.0	200	7200	175000



Crop	Plant spacing (m)	No. of Plants/Acre	Planting material /Acre	Overall All ceiling in project mode with add on component
(c) Sweet orange	6.0 × 6.0	111.2	4003.2	175000
Custard apple	2.5 × 2.5	640	25600	150000
Fig	4.0 × 4.0	250	7500	150000
	2.5 × 2.5	640	19200	175000
Grapes	4.0 × 4.0	250	3750	320000
	3.0 × 3.0	444	6660	330000
	3.0 × 2.0	666.4	9996	350000
	1.8 x 1.8	1110.8	16662	355000
Guava	6.0 × 6.0	111.2	3336	125000
	3.0 × 6.0	222	6660	140000
	3.0 × 3.0	444.4	13332	150000
	1.5 x 3.0	888.8	26664	165000
	1.0 x 2.0	2000	60000	175000
Kiwi	6.0 × 6.0	111.2	2780	175000
	4.0 × 6.0	166.4	4160	200000
	4.0 × 5.0	200	5000	210000
	4.0 × 4.0	250	6250	220000
Litchi	10.0 x 10.0	40	2000	150000
	7.5 x 7.5	71.2	3560	155000
	6.0 x 6.0	111.2	5560	160000
	4.5 x 4.5 x 9.0	131.6	6580	165000
Mango	10.0 x 10.0	40	1800	150000
	5.0 × 5.0	160	7200	160000
	4.0 × 6.0	166.4	7488	165000
	3.0 × 6.0	222	9990	165000
	3.0 × 4.0	333.2	14994	175000
	2.5 × 2.5	640	28800	200000
Papaya	1.8 x 1.8	1110.8	16662	125000
	1.5 x 1.5	1777.6	26664	150000
Passion fruit	4.0 × 4.0	250	5000	250000
	3.0 × 3.0	444.4	8888	270000
	3.0 × 2.0	666.4	13328	250000
Peach	3 x 2.5	533.2	18662	150000
	2.5 x 2.5	640	22400	150000
Pear	5.0 × 5.0	200	6000	125000
	4.0 × 4.0	250	7500	130000
	3.0 × 3.0	444.4	13332	150000
Pineapple (Suck)	0.6 × 0.3	18000	54000	200000

Crop	Plant spacing (m)	No. of Plants/Acre	Planting material /Acre	Overall All ceiling in project mode with add on component
Pineapple (TC)	0.6 × 0.3	18000	72000	225000
	0.3 × 0.6 × .9	17200	68800	200000
	.225 × .6 × .9	21200	84800	220000
Plum	3.5 × 3.5	326.4	13056	125000
	2.5 × 2.5	640	25600	150000
Pomegranate	5.0 × 5.0	160	6400	175000
	5.0 × 3.0	266.8	10672	185000
	4.0 × 3.0	266.4	10656	185000
Sapota	5.0 × 5.0	160	5760	150000
Strawberry	0.9 × 0.45	9876.4	49382	200000
	0.6 × 0.25	26666.4	133332	275000
	0.5 × 1.0	800	4000	175000
Walnut	6.0 × 6.0	111.2	16680	150000
	5.0 × 5.0	160	24000	150000
Jack Fruit	10x10	40	600	125000
Cashew nut	Normal	85	5740	200000
Coconut	Normal	95	6650	150000
Olive	Normal	105	3150	150000
Date Palm	Normal	71	2840	150000
Black Pepper	Normal	880	2500	150000
Cardamom	Normal	2030	12180	230000
Citronella	Normal	11000	5500	125000
Geranium	Normal	11000	5500	125000
Stevia	Normal	28350	141000	300000
Palmarosa	Normal	11000	5500	125000
Mint *Kg	Normal	100	2000	150000
Celery	Normal		2500	125000
Tamarind	10 x 10	40	2000	125000

Note:

1. Wherever cost norms are not given, cost norms available under MIDH scheme for similar activity shall be followed. In case norms are not available under MIDH schemes also, cost appraised by bank as per bank norms or approved by Competent Committee of NHB shall apply.
2. In project mode, applicant may opt for add on components as per norms given Appendix-1C but unless otherwise specified, cost ceiling, as prescribed for each crop/activity shall be applied where cost of add on components exceeds prescribed ceiling.

APPENDIX- I-B

Cost norms for protected cultivation under NHB Scheme

Cost Rs Lakh per acre

SN	Crop	Cost of poly house with drip & fogger system *	Cost of cultivation	Cost ceiling per acre with add on components in project mode
1	Anthurium & Orchid	33.76	28.00	70.00
2	Rose, Lilium Chrysanthemum	33.76	17.04	60.00
3	Carnation & gerbera	33.76	24.40	66.00
4	Hi-value vegetable under poly house	33.76	5.60	47.00
5	Hi-value vegetable under shade net	28.40	5.60	40.00

- Cost of Tubular structure in plain area. In hilly area cost of poly house will be 15% more.

Note:

1. Wherever cost norms are not given, cost norms available under MIDH scheme for similar activity shall be followed. In case norms are not available under MIDH schemes also, cost appraised by bank as per bank norms or approved by Competent Committee of NHB shall apply till cost norms are prepared.
2. In project mode, applicant may opt for add on components as per norms given Appendix- 1C but unless otherwise specified, cost ceiling, as prescribed for each crop/activity shall be applied where cost of add on components exceeds prescribed ceiling.

Appendix -1-C

Norms for Technology Add-on components and other essential components of Integrated Commercial Horticulture projects

S.No.	Item	Description	Admissible Cost
Cutoff 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. 50,000/- 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. 50,000/- 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 as given at Appendix- 1
III	Drip system with internal pipeline	Component includes mainline, valve, backflow preventer pressure regulator, filter, tubing adapters and fittings, drip tubing, emitters and an end cap	<ul style="list-style-type: none"> • Actual or Rs. 20,000/- per acre for plant density up to 200 plants • Actual or Rs. 25,000/- per acre for plant density > 200 plants / acre • Sprinkler @ Rs 15,000/ per acre
III (i)	Irrigation infrastructure excluding micro irrigation * #	Irrigation infrastructure like tube-well/bore well/open well, pipeline, water harvesting structure, water tank etc, admissible only if newly created with loan component	<ul style="list-style-type: none"> • Actual or up to Rs. 50,000/- per acre for open field cultivation. • Rs. 4.00 lakh per project in case of protected cultivation. <p>Component-wise cost norms will be as under</p> <ol style="list-style-type: none"> 1. Tube-well – up to Rs 2.50 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. 4. Pipe line-Rs 150/- per running meter only from source (min. 4" diameter) of irrigation to production unit



S.No.	Item	Description	Admissible Cost
IV	Horticulture Mechanization * # # #	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Tractor (up to 20 BHP) @ Rs.3.00 lakh/unit Power Tiller below 8 BHP @ Rs.1.00 lakh/unit Power tiller 8 BHP & Above @ Rs.1.50 lakh/unit Tractor/Power Tiller (below 20 BHP) driven equipments <ul style="list-style-type: none"> Land development, tillage and seed bed preparation equipments -@ Rs.0.30 lakh per unit Sowing, planting reaping and digging equipments - @ Rs.0.30 Lakh per unit Plastic mulch laying machine - Rs.0.70 Lakh per unit Self-propelled Horticulture machinery - @ Rs.2.50 lakh per unit Other tools and equipments as per norms as per norms of Sub Mission on Agriculture mechanization (SMAM)
V	Civil Infrastructure * #	Includes Functional Pack House/ On farm collection unit and labour quarter	<ol style="list-style-type: none"> Functional Pack house @ Rs. 4.00 Lakh/unit with size of 9 x 6 Meter (Pro rate basis for lower size) Labour Quarter/ Store room @ Rs. 20,000/- per acre Maximum up to 3.00 lakh. Cost norm as per pack house
VI	Vermi Compost unit * #	Permanent structure and HDPE vermibed	Rs.60,000/- per unit for permanent structure and Rs.10,000/- for HDPE vermibed (96 cft (12'x4'x2' and IS 15907:2010 to be administered on prorated basis).
VII	Certification for Good Agriculture Practice (GAP), including infrastructure * ##		Rs.4000/- 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. 1,50,000/- per acre

S.No.	Item	Description	Admissible Cost
IX	Plastic Mulching * ##		Rs.12800/- per acre and Rs.14729/- acre for hilly areas
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.100/- per Sq. m.

Components categorization:

* Commercial Horticulture, within overall cost ceiling

Protected Cultivation, within overall cost ceiling

Over and above overall cost ceiling

Any other add on component as may be decided by Project Approval Committee for inclusion of new item(s) may be suitably incorporated from time to time.



Appendix -1-D

Technology Add-on for CA and Modernization (Subject to maximum of Rs. 5.00 crore for CA equipment and Rs. 2.50 crore for Modernization)

S. No.	Item	Description	Admissible Cost
A.	Add-on Technology for CA		
i	CA Generator*	Inclusive of sensors, pressure equalising equipment, controls	Rs. 1.25 crore per unit, maximum 2 generators
ii	Specialised CA Doors*	Add-on specialisation to storage doors for positive pressure chambers.	Rs. 2.5 lac per door, maximum 20 doors
iii	CA Tents#	Low cost enclosure of polyethylen PVC, mylar or other impermeable body	As per original invoice, maximum 5 enclosures
iv	Programmed Logic Controller (PLC) equipment#@	Electronic and electrical logic controls for machinery & equipment.	50% of cost as per original invoice, maximum Rs 10 lakh
v	Dock Levelers#@	In existing or new storages	Max Rs. 7 lakh per unit, max 5 units
B.	Modernization		
i	Warehouse Development & Regulatory Authority (WDRA) / Negotiable Warehouse Receipt (NWR) system, equipment#@	Computers and printers & software for use with NWR of WDRA	100% of cost as per original invoice, maximum Rs. 2 lakh
ii	Specialised Packaging#	Automated packaging lines for fruits & vegetables with farm code labelling	100% of cost as per invoice, maximum Rs. 15 lakh per project
iii	High Reach Material Handling Equipment (MHE) *@	Specialised material Handling equipment	Rs. 17 lakh per unit, for max 2 units.
iv	Dock Levelers	In existing or new storages	Max Rs. 7 lakh per unit, max 5 units
v	Modernisation of refrigeration@	For upgrading of evaporator system, compressor system	50% of cost as per original invoice, maximum Rs. 100 lakh @ Rs. 2500/MT
vi	Modernisation of insulation@	For repair or modernising of cold chamber insulation	50% of cost as per original invoice, maximum Rs.100 lakh @ Rs. 1500/MT
vii	Reefer Container#	Reefer container for use on existing chassis trailers	Max Rs. 6 lakh per 9MT (20 foot container)
viii	Advanced Grader*##@	Computerised, Optical Grading Lines	100% of cost as per original invoice, max Rs. 75 lakh per line

S. No.	Item	Description	Admissible Cost
ix	Stacking system*#@	Racking system Bins, Pallets	100% of invoice cost, max Rs 2000/MT
x	Retail Shelf#	Temperature controlled retail cabinets	Maximum Rs. 10 lakhs per establishment
xi	Alternate Technology#@	Vapour Absorption, Phase change material, Solar PV panels or Solar Thermal sys	100% of cost as per invoice, maximum Rs. 35 lakhs per project

Components categorization : * CA Add-ons: # Other Add-ons: and @ Modernization

Maximum permissible subsidy shall be subject to original invoices and in no case more than Rs. 7.50 crore, whichever is lower. For add-on technology, subsidy shall be provided as credit linked back ended at 35% of the capital cost.

Technology offers inherent value for operators and the admissible cost norms are designed to incentivize induction and not to serve as venture funding.

Any other components as maybe decided by Technical Committee when new technology or items that reduce carbon footprints are introduced. For individual unit components like insulation, graders, CA generator, solar panels - NCCD shall publish guidelines for use by appraising agency.



Appendix

List of National Horticulture Board Offices

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