Operational Guidelines for Scheme on Development of Commercial Horticulture through Production and Post Harvest Management of Horticulture Crop**s**

Eligible Projects: Credit linked projects relating to establishment of Commercial production units in open field (including mushroom production units and tissue culture units) as well as projects under protected conditions and projects on Post harvest Management are eligible for assistance under this scheme as per approved cost norms and pattern of assistance (component wise) given in Annexure –I

2. Eligible Organizations

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.

3. Procedure for filing application for In Principle Approval (IPA)

As per revised procedure effective from 01.04.2017, In Principle Approval (IPA) is mandatory for availing financial assistance under credit linked back-ended subsidy schemes of NHB. Before submitting application for IPA, applicants should carefully read and understand Operational Guidelines of the scheme and ensure that financial assistance sought is as per the notified procedure from time to time and they fulfill the eligibility criteria. Steps to be followed for making IPA application are as under:

A: Online Submission of Application Form for **IPA**:

It is mandatory to submit online IPA application in prescribed format available on Board's website: <u>http://nhb.gov.in</u> through link "Apply online and Track Status here".

With online application, it would be necessary to upload copy of Detailed Term Loan Sanction Letter of Bank/FI (In Principle Sanction Letter/Bank Consent letter not accepted) issued on or after 01.04.2017 for a new project/activity and a copy of the DD as proof of payment of application fee in case payment is not made online. Upon submission of form, applicants will get a computer generated unique code with acknowledgement for their application.

B: Submission of Application in Physical Form:

4.

Applicant are advised to take a print of Online application and submit the self certified copy of the same to NHB, Head Office with all necessary enclosures as specified in Para 4 to the Head Office within 30 days from date of submission of online application on following address:

The Managing Director, National Horticulture Board, Plot No. 85, Sector-18, Institutional Area, Gurugram (HR) – 122015 Documents to be enclosed along with IPA Application Form

- a. Print out of online application duly signed by applicant.
- b. Receipt of online payment or Demand Draft in original, as the case may be towards cost of Application Form & Scheme Brochure
- c. 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 IPA application
- d. Detailed Project Report (DPR) duly signed by promoter on each page of DPR
- e. Certified copy of Detailed Term Loan Sanction letter of lending Bank/FIs
- f. Certified copy of Caste Certificate issued by Competent Authority in case of SC/ST applicants
- g. Certified copy of Aadhaar Card of applicant (s)
- h. In case of Company/partnership firms (i) Certified copy of Company/Partnership registration certificate issued by Competent Authority, if applicable (ii) Certified copy of MoA/Bye Laws (iii) Certified copy of Board of Directors Resolution duly passed and authorizing signatory of application to apply for IPA (iv) Certified copy of latest Audit Report, if applicable
- i. Basic data sheet for Banana Ripening Unit/Reefer Van/poly house/shade net house in prescribed format.
- 5. Cost of Application Form & Scheme Brochure:

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 2000/- (plus applicable charges towards payment of gateway transaction fee)
For Projects having cost > 20 lakh and upto Rs 50 lakh		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)

Following is the structure for cost of application:-

6. Mode of Fee Payment:

Fee can be paid on line during filing online application or it can be paid by Demand Draft in favour of National Horticulture Board payable at Gurugram (Haryana)

The receipt & acknowledgment does not necessarily mean the approval of application, unless it is found to be feasible in all respects during the time of final scrutiny and evaluation. Applications received will be duly scrutinized and will be placed before Pre Project Approval Committee (PPAC) of Board. Applicants qualifying the eligibility criterion and meeting the approval of PPAC will be issued In Principle Approval (IPA) subject to availability of fund.

8. Time limit for Completion of project

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 6 months, if reasons for delay are considered, justified by the financial institution concerned and agreed to by NHB.

9. Intimation of completion of project and request to carry out joint inspection and process for approval of subsidy

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 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. Subsidy will be released in Subsidy Reserve Fund Account (SRFA) to be adjusted with last installment of term loan not prior to 36 months.

- 10. OTHERS
- (i) Cost Norms

The cost norms are frequently misconstrued to reflect on market pricing of component item. It is to be noted that cost norms are intended to incentivize investment in certain areas and relates only to admissible item in a project. Cost norms are not to be understood as a funding mechanism for the projects. Detailed cost norms are given at Annexure-I. Further, these norms are broad-based at national level and agnostic in relation to locality relevant specifics.

(ii) Title of the land

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. (iii) Protocol for Implementation of Technical Standards (in case of Ripening Chamber, Reefer Container and protected cultivations only)

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

- 11. General Conditions
- i. Please ensure to submit duly signed copy of online application along with Annexure signed on each page. Incomplete applications or applications received beyond time limit will be rejected.
- ii. The decision of NHB with regard to eligibility and interpretation of the guidelines shall be final and binding on the beneficiaries and banks.
- iii. Mere issuance of IPA is not a guarantee of release of subsidy unless the project is implemented as per the scheme guideline.
- iv. Normative cost of various components shall be prescribed by NHB.
- v. Assistance can also be availed for a combination of PHM infrastructure components by a beneficiary, within the prescribed norms of individual items.
- vi. Applicant to ensure crop/activity proposed is permissible under NHB scheme and Applicant has to intimate the Board before effecting change of project land, crop, area, bank, etc. in the proposal before claim of subsidy
- vii. Conformity of Technical Standards in case of Ripening Chamber, Reefer Container and protected cultivation is essential.
- viii. If applicant is one or few of joint owners of project land then NOC from others coowners be submitted.
- ix. Incomplete projects/NPA projects and default cases shall not be eligible for subsidy and subsidy will be called back in such cases.
- x. 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.
- xi. NHB reserves the right to recall any amount given under the scheme without assigning any reason thereof
- xii. Credit component as means of finance of the project must be term loan linked with Aadhar 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
- xiii. 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.
- xiv. 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.

- xv. The participating banks should ensure insurance of the assets created under the project wherever required statutorily
- xvi. Board will not accept proposals of Primary Processing Projects including projects of Cashew and Spices processing.
- xvii. Floriculture project under shade net house is not permitted.
- xviii. Cost norms for civil work under the scheme shall be as under:-
 - (a) RCC construction @ Rs. 500/- per sq,ft or actual whichever is less.
 - (b) Pucca construction @Rs. 250/- per sqft or actual whichever is less
- xix. A signboard displaying "Assisted by National Horticulture Board, Ministry of Agriculture & Farmers Welfare, Govt. of India" will be exhibited at the site.
- 12. Legal

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

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

S N	Item	Cost Norms*	Pattern of Assistance#
Α.	Development of Commercial Hortic		
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 States for subsidy on the pattern of HMNEH States and scheduled areas. Component-wise/crop-wise cost norms are given at Appendix – 1 & II. Add on component given in appendix-1-B can be added in project mode within overall cost ceiling
A. 2	Commercial Horticulture Development in protected cover.	Rs 112.00 lakh per project covering area above 2500 Sq.mt. In case of NE Region covering area should be above 1000 Sq. meters	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. and Rs. 1610/S m for hilly areas	
	(b) Naturally ventilated system		
	i) Tubular structure	Rs. 844/Sq. m a Rs.970/Sq. m 1 hilly areas.	
	ii) Wooden structure	Rs. 540/Sq. m a Rs. 621/Sq. m f hilly areas	for
	iii) Bamboo structure	Rs. 450/Sq. m a Rs. 518/Sq. m t hilly areas	for
2.	Shade Net House	Flower cultivation	n not allowed in shade net house
	(a) Tubular structure	Rs. 710/Sqm a Rs. 816/Sqm f hilly areas	for
	(b) Wooden structure	Rs. 492/Sqm a Rs. 566/Sqm f hilly areas	•
	(c) Bamboo structure	Rs.360/Sqm a	nd 50% of cost for above 2500 Sq.m for
3	Plastic Tunnel		nd 50% of the cost
	-		•

			Rs.75/sq. m	for	
			hilly area	101	
4	Walk in Tunnel		Rs.600/ Sq. m		50% of the cost
5	Anti Bird/Anti Hail Nets		Rs.35/Sq.m		50% of the cost
6	Cost of Planting Material cultivation of High Value vegeta grown in Poly House/Shade House		Rs.140/Sq.m		50% of the cost
7	Cost of Planting Material cultivation of Orchid and Anthu grown in Poly House		Rs.700/Sq.m		50% of the cost
8	Cost of Planting Material cultivation of Carnation & Ger grown in Poly House		Rs.610/Sq.m		50% of the cost
9	Cost of Planting Material cultivation of Rose & Lilium grow Poly House		Rs.426/Sq.m		50% of the cost
10	Plastic Mulching		Rs.32000/Ha Rs.36800/Ha Hilly Areas	for	
A. 3			house, gra packing, cold can be taker	The of pack ding, room	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 States for subsidy on the pattern of HMNEH States and scheduled Areas, ensuring backward and forward
	Component wise cost norms of Ir	ntegra		Mana	ngement
1	Pack house		4.00 lakh/unit size of		of the capital cost.
2	Integrated pack house with facilities for conveyer belt, sorting, grading units, washing, drying and weighing.	unit		the 50% on Sche	dit linked back-ended subsidy @ 35% of cost of project in general areas and of cost in case Hilly States for subsidy the pattern of HMNEH State & eduled areas for individual epreneurs.
3	Pre-cooling unit		25.00 lakh / with capacity 6 MT.	Creative the 50% on Sche	dit linked back-ended subsidy @ 35% of cost of project in general areas and of cost in case Hilly States for subsidy the pattern of HMNEH State & eduled areas for individual epreneurs.
4	Cold room (staging)	Rs. unit capa	acity	Creative the 50% on Sche	dit linked back-ended subsidy @ 35% of cost of project in general areas and of cost in case Hilly States for subsidy the pattern of HMNEH State & eduled areas
5	Mobile pre- cooling unit		25.00 lakh	the 50% on Sche	dit linked back-ended subsidy @ 35% of cost of project in general areas and of cost in case Hilly States for subsidy the pattern of HMNEH State & eduled areas
6	Ripening Chamber	Rs. ⁻ (11	1.00 lakh/MT cum of	the	dit linked back-ended subsidy @ 35% of cost of project in general areas and of cost in case Hilly States for subsidy

		chamber volume shall be equivalent of 1 MT of storage capacity.)	on the pattern of HMNEH State & Scheduled areas
7.	Refrigerated Transport vehicles/ Refer Van	Rs. 30.00 lakh for 15 MT, and prorate 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	Credit linked back-ended subsidy @ 35% of cost (50% in NE, Hilly States for subsidy on the pattern of HMNEH State Areas and scheduled areas)

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

APPENDIX- I

Cost norms for open field cultivation under NHB Scheme

Cost in Rs. per acre Plant Crop spacing No. of Planting Overall All ceiling in project (m) Plants/Acre material /Acre mode with add on component 4.0×4.0 100 15000 Almond 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 111.2 6.0×6.0 6672 150000 Apple 4.0×4.0 250 15000 160000 (RS- MM 111) 3.5x3.5 325.6 19536 175000 (RS- MM 111) 3.0×3.0 444.4 26664 185000 (RS- MM 106) 3.0×1.5 888.8 53328 200000 (RS-M9) 2.5 × 2.5 640 38400 190000 (RS- MM 106) 1.5 x 1.5 1777.6 106656 275000 (RS-M9) 250 Apricot 4.0×4.0 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 7500 Cherry 4.0×4.0 250 125000 (a) Lime & 3.0×3.0 444.4 15998.4 200000 Lemons 4.0×4.5 222 7992 175000 (b) Mandarine 6.0×6.0 111.2 4003.2 175000 /Orange 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 (c)Sweet 6.0×6.0 111.2 4003.2 175000 orange Custard apple 640 25600 2.5 × 2.5 150000 250 Fig 4.0×4.0 7500 150000 2.5×2.5 640 19200 175000

	4.0 × 4.0	250	3750	320000
Grapes	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
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 x 3.5	326.4	13056	125000
	2.5 x 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	1500000
	5.0 × 5.0	160	24000	150000
Jack Fruit	10x10	40	600	125000
Cashewnut	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
Giranium	Normal	11000	5500	125000
Stevia	Normal	28350	141000	300000
Palmarosa	Normal	11000	5500	125000
Mint *Kg	Normal	100	2000	150000
Celery	Normal		2500	125000
Tamrind	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- 1A 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- II

			C	ost in Rs. per acre
SN	Crop	Cost of Poly	Cost of	Cost ceiling per
		house with drip &	Cultivation	acre with add
		fogger system*		on components
				in project mode
1	Anthurium & Orchid	33.76	28.00	70.00
3	Rose, Lillium, Chrysanthemum	33.76	17.04	60.00
4	Carnation & Gerbera	33.76	24.40	66.00
5	Hi-Value vegetable under poly	33.76	5.60	47.00
	house			
6	Hi-Value vegetable under Shed	28.40	5.60	40.00
	net			

Cost norms for protected cultivation under NHB Scheme

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 scheme 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.

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

S. No.	Item	Description	Admissible Cost
	Cutoff date	e 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.
l(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, emitters and an end cap	 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 * #	Irrigation infrastructure like tube-well/bore well/open well, pipeline, water harvesting structure, water tank etc, admissible only if newly created with loan component	 Actual or up to Rs. 50,000/- per acre for open field cultivation. Rs. 4.00 lakh per project in case of protected cultivation. Component – wise cost norms will be as under : Tube-well – up to 2.50 lakh per unit Water harvesting structure- @ Rs. 100/- cum. With use of minimum 300 microns plastic films or RCC lining. Cost of non lined ponds/tanks will be 30% less. Pipe line-Rs 150/- per running meter only from source (min. 4" diameter) of irrigation to production unit
IV	Horticulture Mechanization * # ##	 Power/hydraulic operated machine/tools including small farms tractor with rotavator /equipments etc. Machineries Identified by NHB under farm mechanization component may be considered for subsidy in standalone mode 	 Tractor (up to 20 PTO HP) @Rs.3.00 lakh/unit Power Tiller below8 BHP @ Rs.1.00 lakh/unit Power tiller 8 BHP & Above @ Rs.1.50 lakh/unit Tractor/Power Tiller (Below 20 BHP) driven equipments 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

V	Civil Infrastructure * #	Includes Functional Pack House/ On farm collection unit and labour quarter	 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) 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 vermin bed	Rs.60, 000/- per unit for permanent structure and Rs.10, 000/- for HDPE vermin bed (96 cft (12'x4'x2' and IS 15907:2010 to be administered on prorate 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
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

National Horticulture Board

Check list of required documents for seeking In Principle Approval (IPA)

Name of Scheme: "Development of Commercial Horticulture through production and post Harvest Management"

Sr.	PARTICULARS	Yes/No							
No.	FANTICULANS	165/100							
1.	Signed copy of the print out of online submitted IPA Application								
2.	Prescribed Cost of Application Form & Scheme Brochure (copy of online payment receipt or DD in original)								
3.	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 IPA application								
4.	Detailed Project Report (DPR) duly signed by promoter on each page of DPR								
5.	Certified copy of Detailed Term Loan Sanction letter of lending Bank/FIs								
6.	Certified copy of Caste Certificate issued by Competent Authority in case of SC/ST applicants								
7.	Certified copy of Aadhaar Card of applicant (s)								
8.	In case of Company/partnership firms (i) Certified copy of Company/Partnership registration certificate issued by Competent Authority, if applicable (ii) Certified copy of MoA/Bye Laws (iii) Certified copy of Board of Directors Resolution duly passed and authorizing signatory of application to apply for IPA (iv) Certified copy of latest Audit Report, if applicable								
9.	Basic data sheet for Banana Ripening Unit/Reefer Van/Polyhouse/shade net house only								

National Horticulture Board

IN PRINCIPLE APPROVAL (IPA) APPLICATION FORM

Name of Scheme: "Development of Commercial Horticulture through production and post Harvest Management"

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

Date of application _____ Application No. ------(to be generated online)

> Affixed duly singed PHOTO here

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

A. GROWER/ENTREPRENEUR

1.	Name					
	Permanent Address					
	Postal Address					
	Mobile					
	Fax					
	Email					
2.	Category	SC	ST	OBC	EX-SERVICE MAN	
	Please (√)					
3.	Constitution	Individuals /Part	•	•		
		Society/ a Socie		-	on	
		of Society Act/ a		-help group)/		
		Farmer Producer	s Company			
4.	Gender (Male/Fem	ale)			Age:	
5.	Aadhaar Number					
6.	Occupation					
7.	Promoters/beneficia					
	i. Principle Prom	oter/Beneficiary	(i) Farmer			
			(ii) Professional			
			(iii) Others			
	ii. Others					
	iii. In case of com	panies-				
	 Registration Registering a	number & date of authority	registration			

Γ

B. PROPOSED ACTIVITY

B-I. (Cultivation/PHM/Nursery/ Mushroom/Tissue Culture/Others)

Cultivation

1.	Name of the Proje	ct							
2	Location								
	Survey/Khasra No.								
	Village								
	Taluka								
	District								
	State								
3.	Activity proposed	under the	project in details						
	(a) Area under cul	tivation/p	roject						
	Name of the	Variety	(S)	Area	N	o. of	Source	s of	Density of
	crop			(Acres)	pl	ants	planting material		plantation
	(b)PHM Activity			Grading & Pre-cooling		ling	Refer Van		
	Please ($$)			packing	backing				
	(c) Primary proce	-							
	- Activity in brief with details of product		s of products	NOT ELIGIBLE					
	d)Misc. activities (Not cover	ed in a to c)						
	- Activity in brief								

B-II. Whether proposed activity in application is

Sr.	Particular	Yes/No
No.		
(a)	Completely a new activity	
	(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 or component thereof from Central Govt. or any of its	
	Agencies. (if YES, please indicate clearly in detail)	

C. PROPOSED PROJECT COST (COMPONENT-WISE)

Sr.	Component/Items			Proposed Cost (Amount in Rs.)
No. (a)	Cultivation Expenses			(Amount in NS.)
(a) 1.	Cost of Cultivation			
1.	(i) Cost of Planting material			
	(ii) Input Cost			
	(iii) Cost of labour			
2.	Irrigation			
21	(i) Bore-well/Tube-well (new/old)			
	(ii) Cost of pipeline (length, diamete	r & type of ma	terial used)	
	(iii) Water harvesting pond (existing,	71		
	(iv) Other expenditure, if any (pl. sp			
3.	Micro Irrigation, use of plastic mulchi			
	(i) Cost of drip irrigation	0		
	(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. sp	ecify)		
5.	Farm mechanization			
	I) Cost of tractor and accessories			
	II) Other tolls and equipments (item	wise)		
6.	Land development (including digging	g of pit & fenci	ng	
7.	Cost of Land, if purchased			
8.	Creation of controlled atmosphere	Area	Cost	Rate per Sqmeter
		(sq. mtrs)	(Rs. in lakh)	
	a) Green house/poly house (size)			
	b) Shade net (size)			
	c) Other Components			
	Total			

(B) POST HARVEST INFRASTRUCTURE

Sr.	Component/Items	Proposed Cost
No.		(Amount in Rs.)
1.	Cost of grading/packing house (Size)	
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	

D. PROPOSED MEANS OF FINANCE

Sr.	Particulars	Proposed Amount
No.		(Rs. in lakh)
(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)

Sr.	Particulars	Proposed Amount
No.		(Rs. in lakh)
1.	Expected back-ended subsidy from NHB	

(NHB subsidy will be considered after completion of project as per Board's guidelines and applicable cost norms, 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 In Principle Approval (IPA)

.....

- 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 or component thereof on same piece of land, Khasra no. etc.?

DETAILS OF SUBSIDY, IF AVAILED FROM:

Sr.	Name of Organization	Subsidy amount (Rs.)
No.		
(a)	MoFPI	
(b)	APEDA	
(C)	Other sub schemes of MIDH including NHM	
(d)	RKVY	
(e)	HMNEH/Technology Mission	
(f)	Others	

Signature of applicant

H. NAME OF THE BANK/FI FROM WHERE THE TERM LOAN HAS BEEN SANCTIONED (Please enclose a certified copy of detailed Term Loan Sanction Letter of Bank/FI).

Sr.	Particulars	Details to be given
No.		
a)	Name of Bank	
b)	Branch	
(C)	Bank Code	
(d)	Date & Amount of sanction of Term Loan	
(e)	Details of release of term loan, if any:	
(f)	Whether Term Loan is linked with Aadhaar*	
	Number – Yes/ No	
(g)	Amount of Loan released till date, if any	

* Aadhaar linkage is mandatory

I. DETAILS OF LAND

Sr.	Particulars	Details to be given
No.		
I)	Whether own land (ancestral/purchased):	
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 land title be enclosed)

J. IMPLEMENTATION SCHEDULE OF PROPOSED ACTIVITY

Sr.	Particulars	Details to be given
No.		
i)	Proposed month for start of proposed project	
ii)	Proposed month for plantation	
iii)	Expected date/month of first commercial crop	
iv)	Proposed month for start of unit in case of processing	
v)	Expected month of completion of project	

K. MARKETING OF PRODUCE

Details of marketing tie-up (Backward/forward linkage)

L. COST OF APPLICATION FORM/ SCHEME BROCHURE AND MODE OF PAYMENT WILL BE AS UNDER:

Sr.	Cost of project	Amount of	Mode of Payment
No.		Fee	
1.	Projects costing up to Rs. 10.00 lakh	Rs. 1000/-	Demand Draft drawn in favour of
2.	Projects costing above Rs. 10.00	Rs. 2000/-	National Horticulture Board
	lakh and up to Rs. 20.00 lakh		payable at Gurgaon (Haryana)
3.	Projects costing above Rs. 20.00	Rs. 5000/-	
	lakh and up to Rs. 50.00 lakh		
4.	Projects costing above 50.00 lakh	Rs. 10000/-	

The above prescribed cost of application form and brochure will be non-refundable.

M. DETAILS OF INSTRUMENTS/DEMAND DRAFT

Name of the issuing Bank Branch	Demand Draft No.	Date	Amount(Rs.)

Signature of applicant

SELF DECLARATION

I hereby declare and certify that 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 is true to the best of my knowledge and belief and nothing material has been concealed.

(Signature of the Applicant) Name & Address: Mobile No. Telephone/Fax No. E-mail :

Date

Place:

Enclosures:

- 1. Receipt of online payment or Demand Drafts towards 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 IPA application
- 3. Detailed Project Report (DPR) duly signed by promoter on each page of DPR
- 4. Certified copy of Detailed Term Loan Sanction letter of lending Bank/FIs
- 5. Certified copy of Caste Certificate issued by Competent Authority in case of SC/ST applicants
- 6. Certified copy of Aadhaar Card of applicant (s)
- 7. In case of Company/partnership firms (i) Certified copy of Company/Partnership registration certificate issued by Competent Authority, if applicable (ii) Certified copy of MoA/Bye Laws (iii) Certified copy of Board of Directors Resolution duly passed and authorizing signatory of application to apply for IPA (iv) Certified copy of latest Audit Report, if applicable
- 8. Basic data sheet for Banana Ripening Unit/Reefer Van/Protected Cultivation.

National Horticulture Board

PART-II BASIC DESIGN DATA SHEET FOR BANANA RIPENING UNIT

Sl. No.	Specifications	Description
Α.	Capacity Details	
1.	Holding Capacity	Provide holding capacity in MT
2.	Room Volume	Provide the volume of room in M ³
3.	Room Size	Provide the size of room (LxBxH)m in meters
4.	Number of ripening rooms	List the number of ripening rooms
5.	Peak ambient temperature	Provide the ambient temperature in ^o C
В.	Pallets	
6	Size of pallets	Provide the pallet size (LxBxH) in mm
7.	Size of crate/box	List the size of crate. Box in mm
8.	Crates/box per pallet	List the number of crates/ boxes per pallet
9.	Pallets in each chamber	List the pallets in each chamber
10.	No. of tiers	Specify whether single or two tier system
11.	Pallet Lifting System	Specify whether hand pallet or fork lift
С.	Ripening Parameters	
12.	Ripening Room Temperature	Provide the room set temperature for ripening in ⁰ C
13.	Relative Humidity	Provide the relative humidity in percentage
14.	CO ₂ Concentration	Provide the PPM concentration of CO_2 in ripening chamber
15.	Ethylene concentration	Provide PPM concentration of ethylene in ripening chamber
16.	Product incoming Temperature	Provide the incoming temperature of the product in ⁰ C
17.	Pull down period	Provide the pull down period in hours
18.	Air Flow	Provide the air flow in CMH
D.	Insulation Details	
19.	Wall, Ceiling and partition	Describe the material, thickness and U- value
20.	Floor Types	Describe the material, thickness and U- value
21.	Exterior wall construction	Describe the material and type of wall construction
Ε.	Doors	
22.	Door Size (Lx W)mm	Provide the size of door in mm.
23.	Types of door used	Specify whether Hinged/ sliding/ sectional overhead doors
24.	Number of Doors	List the number of doors used
25.	Emergency measures	List of safety provision provided in case of emergency

26.	Gasket	Provide the type of gasket seal used
F.	Refrigeration load	
27.	Estimated refrigeration load per	Provide the estimated refrigeration
	chamber	load per chamber
28.	Total refrigeration load	Provide the total load in KW
G.	Refrigeration System	
29.	Refrigerant used	Provide the technical name of refrigerant
30.	Refrigeration system	Describe the type of refrigeration system use
31.	Refrigeration capacity	Refrigeration capacity in kW and total numbers of condenser
32.	COP (Coefficient of Performance) of refrigeration system	Provide the COP of the refrigeration system used
33.	Evaporators/condenser details	Proved details -Types, capacity, delta T of coil to room temp. etc.
34.	Air Flow	Provide the air flow of evaporator in CFM.
35	Static pressure and fan rating	Provide the static pressure of evaporation (pa) and fan rating (kw).
36	Manufacturer name	Provide the name of manufacturer
Н	Ripening system	
37	Ethylene applicator	Maker name
38	Number of cylinders and capacity	Provide the number of cylinders and
	per cylinder	its capacity per cylinder.
39	Portable/Centralized	Provide the type of ethylene
40	Type of controller and Ethylene	generator. Specify the type of controller and
	ppm range	ppm range of ethylene.
41	CO ₂ exhaust system	Provide the CO ₂ exhaust system details.
42	Humidifier system details	Details of the humidifier used.
I	Others	
43	Lighting load	Provide the lighting load in KW.
44	Refrigeration load	Provide the total refrigeration load in KW.
45	Total facility power consumption	Provide the total facility power consumption in KW.

All mandatory rules & regulations (BIS, ISO, IS etc.) relevant to the item must be complied with.

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

Basic Design Data Sheet for Refer Van

S. No.	Component: Refrigerated	Description
	Transport	
Α	Truck Details	
1	Chassis number	Provide the chassis details
2	Make and Engine Model	Provide the make and engine model number
3	Engine power	Provide the power of prime mover engine in KW
4	Rated Payload	List the carrying capacity of vehicle in tons
5	Outer dimensions	Provide the (L x B x H)m of the outer dimension of vehicle
6	Cabin details	Describe the details of the cabin – sitting, sleeping and driver comfort
7	Total number of tires	List the total number of tires of the refrigerated transport used
В	Insulated Container	
8	Manufacturer name	Provide the name of manufacturer
9	Insulating material and cladding	Type of cladding, insulating material along with its U- value and thickness
10	Internal/External Dimension of insulated box	Provide the internal/external dimensions of insulated box
11	Flooring details	Described the details of the floor section (T-section, U-section etc.)
12	Weight of insulating box	Proved the weight of the insulating box in kgs.
С	Refrigeration Unit	
13	Maker and Model number	Provide the make and model number
14	Refrigerant used	Provide the technical name of refrigerant
15	Refrigeration capacity	Provide the refrigeration capacity in KW
16	Defrosting system	Provide details of defrosting system used
17	Air flow and pattern	Air flow in cubic meter per hour and flow pattern (top- down, bottom-up)
18	Total power consumption	Provide the total power consumption in KW
19	Diesel/electric auto-switching	Specify the Diesel/ electric auto-switching mechanism
D	Data Logging/ GPS	
20	Data loggers	Type and number of date loggers/ recording capability
21	GPS	Maker and model of GPS unit

Codes and References		
1	ISO/ TC 104	Freight containers
2	ISO 668:2013	Classification, dimensions and ratings
3	ISO/NP 1161:1990	Corner fittings
4	ISO 1496 /2 : 1996	Specification and testing
5	ISO Code 22R1, 45R1	Size of container
6	ISO 6346: 1995	Coding, Identification and Marking
7	ISO -14001:2004	Environmental Management
8	ISO 1496/2	Performance test of thermal appliances

All mandatory rules & regulations (BIS, ISO, IS etc.) relevant to the item must be complied with.

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

List of National Horticulture Board Offices

National Horticulture Board	National Horticulture Board
Plot No. 60, 3rd Floor, Krishna Apartment,	HPMC, 2nd Floor, Nigam Vihar,
Azad Society, Ambawadi	Shimla-171 002
Ahmedabad-380 015	Tele/Fax :0177-2622908/2623801
Tele/Fax :079-26766416, 26766413	E-mail : nhbhp2004@yahoo.com
E-mail : nhbahd@yahoo.co.in	
National Horticulture Board	National Horticulture Board
No.14/43, 2 nd Floor,	
	Horticulture Complex Rajabagh
1 & 2 Stage Industrial Suburb,	Srinagar-190008
Tumkur Road, Yeshwantpur	Tele Fax 0191-2474349 (PP)
Bangalore-560 022	E-mail :nhbjammu@rediffmail.com
Tele/Fax 080-23371935, 23374149	
E-mail : <u>nhbblr@yahoo.com</u>	
National Horticulture Board	National Horticulture Board
R-24, 2 nd Floor, Near Hindustan Times	No. UR-10, Uppalam Road, Statue,
MP Nagar, Zone-1,	Thiruvanantha Puram-695001 (Kerala)
Bhopal – 462011 (MP)	Tele/Fax : 0471-2470505, 2470506
Tele/Fax :0755 – 2550768,2761741	E-mail : nhbtvm@gmail.com
Email :bplnhb@rediffmail.com	
National Horticulture Board	National Horticulture Board
N-1/7, I.R.C. Village,	Municipal Stadium Complex
Nayapalli, Opp. CRPF Gate	Vijayawada-520010
Bhubaneshwar- 751015(Odisha)	/
Tele/Fax :0674-2558134,2559620	Tele/Fax 0866-2473351
Email :nhbbbsr@gmaill.com	
National Horticulture Board	National Horticulture Board
Room No. 317, 4 th Floor Central Facility	Hall No 307, A-2, 3rd Floor South Block,
Building, APMC Fruit Market Complex,	Bahu Plaza Rail Head Complex,
Sector-19, Turbhe Vashi (Navi Mumbai)-	Jammu-180 004
400703	
	Tele/Fax :0191-2474349, 2474112
Tele/Fax 022-27830107	E-mail : <u>nhbjammu@rediffmail.com</u>
E-mail : <u>nbhpune@gmail.com</u>	
National Horticulture Board	National Horticulture Board
Mayukh Bhawan, 2 nd Floor, Salt Lake,	S.C.Panwar Market Yard, Commercial
Sector-II	Complex No. 1, Peth Road Panchwati,
Kolkata -700091	Nashik-422003
Tele/Fax: 033-23377182,23211259	Tele/Fax :0253-2534558,2533715
E-mail : <u>nhb_kolkata@yahoo.com</u>	E-mail :nhbnashik@gmail.com
National Horticulture Board	National Horticulture Board
S.C.O. 85, 2nd Floor, Sector - 40-C	MCAER Building 132/B,
Chandigarh-160 047	Bhambhurda Bhosale Nagar,
Tele/Fax :0172-2625249, 2625269	Pune-411 007
E-mail : <u>nhb_chd@yahoo.co.in</u>	Tele/Fax : 020-25530582-83
	E-mail : <u>nhbpune@gmail.com</u>

National Hantioulture Deand	National Harticulture Deand
National Horticulture Board	National Horticulture Board
19-22, (Garage) Krishi Bhawan	C/o. Superintendent Garden, Shahjan
New Delhi-11001	Park,
Tele/Fax 011-23097015,23073019	Tajganj, Agra-282001
E-mail :nhbdelhi@gmail.com	
Notice at the first Decad	Tele/Fax 0562-2331470
National Horticulture Board	National Horticulture Board
Chang Choop Building	C/O Deputy Director (Horticulture), Govt. of
Near Nayuma Television,	UP, Company Bagh, Kachahari, Varanasi-
Tibet Road, Gangtok-737 101	221001
Tele/Fax :03592-208453,220975	E-mail : nhbvaranasi@gmail.com
E-mail : <u>nhbgangtok@yahoo.com</u>	
National Horticulture Board	National Horticulture Board
Chhibber House, 4th Floor,	Residency Kothi (Complex)
Dispur P.O., Guwahati-781 005	Indore-452001
Tele/Fax :0361-2343719, 2340695	Tele/Fax 0731-2701522
E-mail : nhbghy@gmail.com	
National Horticulture Board	National Horticulture Board
No.2, 5-9-195, William Niwas, Chirag Ali	Laxmi Niwas, Krishi Bhawan
Lane, ABIDS, Hyderabad-500 001	Kankey Road, Ranchi-834 008
Tele/Fax :040-23200806, 23201140	Tele/Fax :0651-2230132,2233832
E-mail : <u>nhb.govhyd@gmail.com</u>	E-mail :nhbranchi@gmail.com
	, and the second s
National Horticulture Board	National Horticulture Board
Second Floor, Modak Priyay, Plot No. 16 &	310/311, 3 rd Floor, I.D. Shopping Centre
17, Near New, Atish Market, Shipra Path,	Near Shivaji Stature, Sahara Darwaja
Mansarovar,	Surat-395003
Jaipur 302 020	
Tele/Fax :0141-2399405, 2390818	Tele/Fax 0261-2311343
E-mail : <u>nhbjpr@yahoo.com</u>	
National Horticulture Board	National Horticulture Board
C/o, Director of Horticulture	Plot No. 142, 1 st Floor
Horticulture Complex,	Seikkilar Street Extension
Cantt. Road	Bibikulam
Jalandhar (Punjab)	Madurai -625002
Tele/Fax 0181-223048	Tele/Fax 0452-2531195
National Horticulture Board	National Horticulture Board
C/o, Director of Horticulture	H.No. 470
2, Sapru Marg Udyan Bhawan	Behind Ashoka Cinema
Lucknow-226001	Diwan Colony
Tele/Fax 0522-2623374/2202420,4072096	Karnal-132001
E-mail: <u>nhblko@rediffmail.com</u>	
National Horticulture Board	National Horticulture Board
Module No.37, 2nd Floor,	C/o, Directorate of Horticulture
SIDCO Readymade Garment Complex,	Room No. 13, 2 nd Floor
Industrial Estate Guindy,	Kheti Bhawan, Ranjeet Avenue
Chennai-600 032	Amritsar-143001
Tele/Fax :044-22501151/22500965	Tele/Fax 0183-2500236
E-mail : <u>nhbtn@yahoo.com</u>	

National Harticulture Deard
National Horticulture Board
Vikas Bhawan, Fazilka Road
Abohar-152116
Tele/Fax 01634-230822
National Horticulture Board
H.No. 42, First Floor, Jal Vihar Colony,
Near Rotary Club of India, Telibandha
Raipur-492001 (Chhattisgarh)
Tele/Fax :0771-2423992
E-mail : nhbraipur@yahoo.co.in
National Horticulture Board
C/o Regional Institute of Rural
Development,
Delhi-Saharanpur Road,
Baraut (Baghpat)
Tele/Fax :01234-251723
E-mail : <u>nhbbaraut_2007@yahoo.com</u>