



राष्ट्रीय बागवानी बोर्ड
National Horticulture Board

राष्ट्रीय बागवानी बोर्ड

कृषि एवं किसान कल्याण मंत्रालय, भारत सरकार

85, इंस्टीट्यूशनल एरिया, सैक्टर-18, गुडगांव-122015

National Horticulture Board

Ministry of Agriculture & Farmers Welfare, Govt. of India

85, Institutional Area, Sector - 18, Gurgaon - 122015

NHB/CC/Guidelines Revision/2016-17/

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Dated 12.04.2017

Office Order

The Department of Agriculture & Farmers Welfare vide letter dated 28.03.2017 have conveyed the approval of Hon'ble Agriculture & Farmers Welfare Minister as Chairman of General Council of MIDH to the modifications in the operational guidelines pertaining to the schemes implemented by National Horticulture Board. A copy of the said letter of DAC&FW is enclosed herewith for ready reference.

The suggested modifications, inter-alia, include;

- (i) NHB would accept proposals only in those cases where term loan has already been sanctioned by the banks/FIs.
- (ii) NHB will circulate a checklist prescribing requirements of documents for issue of In-Principal Approval (IPA) to the project proposal. Applicant has to submit required documents as per check list along with project proposal.
- (iii) The proposals so received would be examined by NHB in a judicious manner preferably without interaction with the Promoter/Applicant based on the circulated checklist. After such due diligence and scrutiny of documents, In Principal Approval may be issued by duly constituted Pre-Project Appraisal Committee of NHB.

In view of the above, it has been decided to stop letter of intent (LOI) system for all categories w.e.f. 01.04.2017. In addition, it has also been decided that NHB may return the LOI applications which have still not been issued LOI with an advise to the promoter to re-submit it for issuance of IPA after getting loan sanctioned from the Bank/FI.

In the meantime, as advised by DAC&FW, the revised checklist prescribing requirements of documents for issue of In-Principal Approval to the project proposal to be submitted to NHB are being prepared and would be circulated separately.

The above instructions would effective from 01.04.2017.


(V. K. Sharma)
Joint Director(Coord.)

Distributions: All concerned



National Horticulture Board
Ministry of Agriculture & Farmers Welfare
Government of India,
Plot No.85, Sector 18, Institutional Area,
Gurgaon - 122 015 (Haryana)
Ph. 0124-2342992, Fax: 2342991, 2341225
Website: www.nhb.gov.in

NHB/CC/Guideline Revision/2017-18

May 1, 2017

OFFICE ORDER

In continuation to our Office Order of even number, dated 12.04.2017, the revised application format is enclosed herewith for seeking In Principle Approval (IPA) under following schemes of National Horticulture Board:-

- (i) Development of Commercial Horticulture through Production and Post Harvest Management of Horticulture Crops, and
- (ii) Capital Investment Subsidy Scheme for Construction/Expansion/Modernization of Cold Storages/Storages of Horticulture Produce

It has been decided that at present applications from applicants belonging to SCP/TSP across the country and all categories of NE Region will be accepted for issuance of IPA. Orders for acceptance of IPA applications from applicants belonging to General category will be issued separately.

This issues with the approval of Competent Authority.

(Brajendra Singh)
Deputy Managing Director

Encls: Revised IPA Application format

Distribution:

All Concerned

National Horticulture Board

General Instructions for Filling up of IPA application

1. In Principle Approval (IPA) is mandatory for availing financial assistance under subsidy schemes of NHB.
2. Before submitting application, applicants should carefully read and understand operational guidelines of the relevant scheme available on website: <http://nhb.gov.in> and ensure that financial assistance sought is as per the notified scheme and they fulfill the eligibility criteria.
3. The applicant seeking In Principle Approval should submit application to the Board in the prescribed application format, available on website: <http://nhb.gov.in> with all necessary enclosures as specified in corresponding annexure given in the individual schemes details, to the nearest designated Regional Office or Head Office of NHB, as the case may be.
4. To ensure that your application is processed in a timely manner, make sure that the application is fully completed, signed and submitted with necessary enclosures. Each column in the application form should be filled in with complete information, as required. Please complete the checklist to ensure you have attached the required supporting documentation.
5. Submit your application to our office in following manner:
 - (i) Application for project costing up to Rs. 50 lacs: Your nearest designated centre of State as per Address given in Annexure - 1
 - (ii) Application for project costing over Rs. 50 lacs: NHB Head Office on following address:

Managing Director,
National Horticulture Board,
Plot No. 85, Sector-18,
Institutional Area, Gurgaon (HR) – 122015
6. On receipt of the application and enclosures the Board/State Office will acknowledge receipt of the application. 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.
7. If ineligibility of an applicant is found during scrutiny of the application at the acceptance stage, it will be informed to the applicant to correct the deficiency/submit required documents, failing which the entire application and enclosures will be returned to the applicant to facilitate submission of complete application
8. Applicants qualifying the eligibility criterion will be issued In Principle Approval (IPA) subject to availability of fund.
9. If you are unsure about any of the information that is required in the application, it is important that you may contact the nearest NHB Office in your State or writes to Concerned Area Officer, NHB HQ Gurgaon for clarification.
10. Incomplete, Unsigned and undated application will be rejected forthwith.

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11/5/17

11. Components of projects not forming part of bank appraisal note are not eligible for NHB subsidy.
12. Incomplete project/ NPA projects and default cases shall not be eligible for subsidy and subsidy will be called back in such cases with interest.
13. Term Loan need to be essentially linked with Aadhaar number of beneficiary.
14. Over writing should be avoided. Over writing in all cases should be duly authenticated.
15. Status of the project is regularly updated on NHB Website and applicants may get latest status of their project by visiting our website. Applicants are also advised to give their mobile number for SMS alerts and e-mail ID for faster communication.

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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. No.	PARTICULARS	Yes/No
1.	IPA Application in prescribed format	
2.	Prescribed Cost of Application Form & Scheme Brochure	
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 only	

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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)

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

Affixed duly
signed
PHOTO here

To,

**The Centre In-Charge
National Horticulture Board**

.....
(Only projects up to Rs. 50.00 Lakh may be sent to concerned State Office of NHB)

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 Head Office of NHB at Gurgaon and a copy of the same to concern State Office too)

A. GROWER/ENTREPRENEUR

1.	Name					
	Permanent Address					
	Postal Address					
	Mobile					
	Fax					
2.	Category Please (✓)	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.	Aadhaar Number					
6.	Occupation					

Signature of applicant

[Handwritten Signature]
11/5/2017

7.	Promoters/beneficiary profile	
	i. Principle Promoter/Beneficiary	
	ii. Others	
	iii. In case of companies- <ul style="list-style-type: none"> Registration number & date of registration Registering authority 	

B. PROPOSED ACTIVITY

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

1.	Name of the Project					
2	Location					
	Survey/Khasra No.					
	Village					
	Taluka					
	District					
	State					
3.	Activity proposed under the project in details					
	(a) Area under cultivation/project					
	Name of the crop	Variety (S)	Area (Acres)	No. of plants	Sources of planting material	Density of plantation
	(b)PHM Activity Please (✓)		Grading & packing	Pre-cooling	Refer Van	
	(c) Primary processing - Activity in brief with details of products					
	d)Misc. activities (Not covered in a to c) - Activity in brief					

B-II. Whether proposed activity in application is

Sr. No.	Particular	Yes/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)	

Signature of applicant

[Signature]
11/5/2017

C. PROPOSED PROJECT COST (COMPONENT-WISE)

Sr. No.	Component/Items	Proposed Cost (Amount in Rs.)
(a)	Cultivation Expenses	
1.	Cost of Cultivation	
	(i) Cost of Planting material	
	(ii) Input Cost	
	(iii) Cost of labour	
2.	Irrigation	
	(i) Bore-well/Tube-well (new/old)	
	(ii) Cost of pipeline (length, diameter & type of material used)	
	(iii) Water harvesting pond (existing/new & size)	
	(iv) 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.	Farm mechanization	
	I) Cost of tractor and accessories	
	II) Other tolls and equipments (item wise)	
6.	Land development (including digging of pit & fencing)	
7.	Cost of Land, if purchased	
8.	Creation of controlled atmosphere	Area (sq. mtrs) Cost (Rs. in lakh) Rate per Sqmeter
	a) Green house/poly house (size)	
	b) Shade net (size)	
	c) Other Components	
	Total	

(B) POST HARVEST INFRASTRUCTURE

Sr. No.	Component/Items	Proposed Cost (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	

(C) PRIMARY PROCESSING

Sr. No.	Particulars	Details to be given
(i)	Activity	
(ii)	Capacity in MT/day	
(iii)	Capacity in MT/annum	
(iv)	Name the product of primary processing	

Signature of applicant

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Sr. No.	Component/Items	Proposed Cost (Amount in Rs.)
1.	Cost of Civil Constructions	
2.	Cost of Plant & Machinery	
3.	Other components, if any (pl. specify)	
	Total	

D. PROPOSED MEANS OF FINANCE

Sr. No.	Particulars	Proposed Amount (Rs. in lakh)
(i)	Promoter's share	
(ii)	Bank/FI term loan	
(iii)	Proposed subsidy from other sources, if any a) From State Govt. b) From Central Govt. other than NHB	
	Total	

(Note: Unsecured loans from friends/relatives will not be treated as equity)

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

(NHB subsidy will be considered 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. No.	Name of Organization	Subsidy amount (Rs.)
(a)	MoFPI	
(b)	APEDA	
(c)	Other sub schemes of MIDH including NHM	
(d)	RKVY	
(e)	HMNEH/Technology Mission	
(f)	Others	

Signature of applicant

[Handwritten Signature]
17/5/2017

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. No.	Particulars	Details to be given
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	

* Aadhaar linkage is mandatory

I. DETAILS OF LAND

Sr. No.	Particulars	Details to be given
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. No.	Particulars	Details to be given
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. No.	Cost of project	Amount of Fee	Mode of Payment
1.	Projects costing up to Rs. 10.00 lakh	Rs. 1000/-	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.
2.	Projects costing above Rs. 10.00 lakh and up to Rs. 20.00 lakh	Rs. 2000/-	
3.	Projects costing above Rs. 20.00 lakh and up to Rs. 50.00 lakh	Rs. 5000/-	
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

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17/5/2017

N. NAME & ADDRESS OF CONSULTANT WHO PREPARED THE PROJECT REPORT (DPR).

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:

Place:

Mobile No:

Telephone/Fax No.

Date:

E-mail :

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 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. Basic data sheet for Banana Ripening Unit/Reefer Van only.

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National Horticulture Board

PART-II BASIC DESIGN DATA SHEET FOR BANANA RIPENING UNIT

Sl. No.	Specifications	Units	Parameters
A.	Capacity Details		
1.	Holding/Storage Capacity (in terms of banana)	MT	
2.	Room Volume	M ³	
3.	Room Size (l x w x h)	Each in M	
4.	Number of ripening rooms		
5.	Peak ambient temperature	Deg C	
B.	Pallets		
6.	Size of pallets (l x w x h)	(MMxMMxMM)	
7.	Size of crate/box (l x w x h)	(MMxMMxMM)	
8.	Crates/box per pallet	No.	
9.	No. of pallets in each chamber	No.	
10.	No. of tiers	No.	
11.	Pallet Lifting System		
C.	Ripening Parameters		
12.	Ripening Room Temperature	Deg C	
13.	Relative Humidity	%age	
14.	Co ₂ Concentration	PPM	
15.	Ethylene concentration	PPM	
16.	Product incoming Temperature	Deg C	
17.	Pull down period	Hours	
18.	Air Flow	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	
E.	Doors		
22.	Door Size (w x h x thickness)		
23.	Types of door used	Hinged/sliding/sectional overhead doors	
24.	Number of Doors	Nos.	
25.	Emergency measures	List of safety provision provided	
26.	Gasket	Type of gasket seal used	
F.	Refrigeration load		
27.	Estimated refrigeration load per	kW	

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	chamber		
28.	Total refrigeration load	kW	
G.	Refrigeration System		
29.	Refrigerant used		
30.	Refrigeration system		
31.	Refrigeration capacity	kW and total numbers of condenser	
32.	COP (Coefficient of Performance)		
33.	Evaporators/condenser 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	Name of manufacturer	
H	Ripening system		
37.	Ethylene applicator	Maker name	
38.	Number of cylinders and capacity per cylinder	Provide the number of cylinders and its capacity per cylinder.	
39.	Portable/Centralized	Provide the type of ethylene generator.	
40.	Type of controller and Ethylene ppm range	Specify the type of controller and 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	KW.	
44.	Refrigeration load	KW.	
45.	Total facility power consumption	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
seal who has designed ripening chamber
and is going to provide supervision
during Construction and commissioning

Signature and
Name of Applicant with

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Basic Design Data Sheet for Refer Van

S. No.	Component: Refrigerated Transport	Description
A	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
B	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.
C	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
seal who has designed ripening chamber
and is going to provide supervision
during Construction and commissioning

Signature and
Name of Applicant with

Handwritten signature and date 1/5/2017

Annexure - 1

List of National Horticulture Board Offices

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

11/5/2017

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

1/5/2012

National Horticulture Board 401, 4rth Floor, Lotus Plaza, Near Lakshmi Bhawan, Old Post Office Road. Gokulpeth, Nagpur-440 010 Tele/Fax :0712-2525030,2523110 E-mail : nhbnagpur@rediffmail.com	National Horticulture Board Vikas Bhawan, Fazilka Road Abohar-152116 Tele/Fax 01634-230822
National Horticulture Board Room No 501, 502, 5th Floor, Boring Road, Verma Centre Patna-800 001 Tele/Fax :0612-2541218,2541128 E-mail : nhbpatna@gmail.com	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 Naveen Sabzi Mandi Ashthal, Krishi Utpadan Mandi Samiti, Niranjanpur, Dehradun- 248171 Tele/Fax 0135-2761922,2762767,2725517 E-mail : nhb_dehradun@yahoo.com	National Horticulture Board C/o Regional Institute of Rural Development, Delhi-Saharanpur Road, Baraut (Baghpat) Tele/Fax :01234-251723 E-mail : nhbbaraut_2007@yahoo.com

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National Horticulture Board

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

Name of Scheme: "Capital Investment Subsidy Scheme for Construction/Expansion/Modernization of Cold Storages and Storages of Horticulture Produce"

Sr. No.	PARTICULARS	Yes/No
1.	IPA Application in prescribed format	
2.	Prescribed Cost of Application Form & Scheme Brochure	
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 (Available at NHB Website http://nhb.gov.in)	
10.	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	
11.	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	
12.	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.	

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National Horticulture Board

IN PRINCIPLE APPROVAL (IPA) APPLICATION FORM

Name of Scheme: "Capital Investment Subsidy Scheme for Construction/Expansion/Modernization of Cold Storages and Storages of Horticulture Produce"

(To be signed on each page by the applicant)

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

Affixed duly
signed
PHOTO here

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

A. BENEFICIARY/ENTREPRENEUR

1.	Name					
	Permanent Address					
	Postal Address					
	Mobile					
	Fax					
Email						
2.	Constitution	Individual /Company/Joint Promoters/ Partnership Firm/ Trust/Cooperative Society/ a Society registered under Registration of Society Act/ self-help group/ Farmer Producers Company				
3..	In case of Individual Please (✓) Category	SC	ST	OBC	EX-SERVICE MAN	
4.	Gender (Male/Female)				Age:	
5.	Aadhaar Number					
6.	Occupation					

Signature of applicant

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11/5/2014

7.	Promoters/beneficiary profile	
i.	Principle Promoter/Beneficiary	
ii.	Others	
iii.	In case of companies	
	• Registration number & date of registration	
	• Registering authority	
	• Act under which Registered	
	• Authorized share capital	
	• Paid up share capital (by end of last financial year)	
	• Reserve & 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	
4.	(A) EXISTING CAPACITY, IF ANY CHAMBER (S) CAPACITY IN MT		
	Chamber- 1		
	Chamber- 2		
	Chamber -3		
	Chamber -4		
	Total Capacity		
	(B) PROPOSED NEW CAPACITY CHAMBER (S) CAPACITY IN MT		
	Chamber- 1		
	Chamber- 2		
	Chamber -3		
	Chamber -4		
	Total Capacity		
	(C) CHAMBER/CAPACITY PROPOSED CHAMBER (S) CAPACITY IN MT MODERNIZATION		
	Chamber- 1		
	Chamber- 2		
	Chamber -3		
	Chamber -4		
	Total Capacity		
	(D) JUSTIFICATION FOR ADDITIONAL CAPACITY/MODERNIZATION		

Signature of applicant

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11/5/2012

B-II. WHETHER PROPOSED ACTIVITY IN APPLICATION IS

Sr. No	PARTICULAR	Yes/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. No	Component/Items	Proposed Cost (Amount in Rs.)
1.	Cost of civil constructions	
2.	Cost of plant & machinery	
3.	Other components, if any (pl. specify)	
	Total	

D. PROPOSED MEANS OF FINANCE

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

(NHB subsidy will be considered 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))

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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.?

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DETAILS OF SUBSIDY, IF AVAILED FROM:

Sr. No	Name of Organization	Subsidy amount (Rs.)
(a)	MoFPI	
(b)	APEDA	
(c)	NHM	
(d)	HMNEH/Technology Mission	
(e)	RKVY	
(g)	Others	

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. No.	Particulars	Details to be given
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	

* Aadhar linkage is mandatory

I. DETAILS OF LAND

Sr. No.	Particulars	Details to be given
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. No.	Particulars	Details to be given
i)	Proposed month for Start of project	
ii)	Proposed month for Civil Construction	
iii)	Proposed month for Installation of plant & machinery	
iv)	Expected month of Completion of project	

K . MARKETING OF PRODUCE

Signature of applicant

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11/5/2017

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

Sr. No.	Cost of project	Amount of Fee	Mode of Payment
1.	Projects costing up to Rs. 10.00 lakh	Rs. 1000/-	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.
2.	Projects costing above Rs. 10.00 lakh and up to Rs. 20.00 lakh	Rs. 2000/-	
3.	Projects costing above Rs. 20.00 lakh and up to Rs. 50.00 lakh	Rs. 5000/-	
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.)

N. NAME & ADDRESS OF CONSULTANT WHO PREPARED THE PROJECT REPORT (DPR).

SELF DECLARATION

I hereby declare and certify that:-

1. 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.
2. That I have thoroughly read and examined notification F. No. 45/64/2010-Hort., dated 15.05.2015 for prescribed technical standards w. e. f. 15.05.2015
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. 15.05.2015 vide notification F. No. 45/64/2010-Hort., dated 15.05.2015.

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 :

Place:

Mobile No :

Telephone/Fax No.

Date :

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 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. Basic Data Sheet (Available at NHB Website <http://nhb.gov.in>)

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17/5/2015

National Horticulture Board

PART-2

BASIC DATA SHEET FOR COLD STORAGES

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		
Aadhaar Number of Applicant			

B. BASIC COLD STORE DESIGN CONSIDERATIONS

i) Commodity Storage Requirements Type of Commodities/Produce Ideal / Recommended Storage Conditions - Temperature (DB in °C) - Humidity RH (%) Range - Air Circulation (CMH/MT of Produce) - Ventilation (Air Changes/Day) - CO ₂ Range (PPM) - Produce Cooling Rate (°C/day) - Freezing Point °C - Others		
Cold Chamber Dry bulb (DB in °C)		
Cold Chamber RH (%)		
Max Storage period (months)		
Max product temp (°C) - at the time of loading		
Daily loading rate (MT/day) - in each cold chamber		
Loading Period (months)		

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Pull down rate ($^{\circ}\text{C}$ / day)		
Unloading Period (months)		
Daily unloading rate (MT/day) - from each cold chamber		
Ante Room Conditions ($T^{\circ}\text{C}$ & RH %)		
Sorting & Grading Area ($T^{\circ}\text{C}$ & 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				
Total number of Bags/Boxes stored in each Cold Store Chamber				

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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

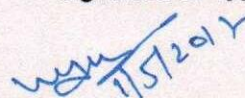
Details	Length (m)	Width (m)	Height (m)
Machine Room			
Office Area			
Toilets & Changing rooms			
Any other			

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	

vii) Insulation and Vapor Barrier**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 $+10^\circ\text{C}$ k value (W/m.K)				
Thermal diffusivity m^2/h				
Water vapour transmission rate, $\text{ng}/\text{Pa.sm}$, Max.				
Water absorption after 24h immersion, percentage by mass.				
Relevant IS Code of Practice for Thermal Insulation of Cold Store				

Signature of Consultant**Signature of applicant**


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				

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)			

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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)				

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)	

Signature of Consultant

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1/5/2017

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

Condenser 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

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.

Signature of Consultant

Signature of applicant

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E. ELECTRICAL INSTALLATION

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)	

F. 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		

G. CODES & STANDARDS FOLLOWED

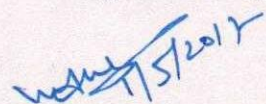
Building Design & Structure	
Construction Materials	
Thermal Insulation & Application	
Refrigeration Equipment & Systems	
Electrical & Mechanical Systems	
Food Safety	
Others	

H. ENERGY SAVING EQUIPMENT & MEASURES

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	

Signature of Consultant

Signature of applicant



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 ...	

I. 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	

J. 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)			

K 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

Handwritten signature and date: 15/12/2017