



***Market Survey cum Detailed Techno
Economic Feasibility Report
on***

Cold Storage

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CONSULTANCY SERVICES**

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PROJECT FINANCIALS

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District Profile & Geotechnical Site Characterization

General

Physical Characteristics

CLIMATE & RAINFALL

Rainfall:

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Map

Economy & Industry

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Transportation and Communications

Air

Rail

Road

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Introduction

India is the largest producer of fruits and second largest producer of vegetables in the world. Fruits & vegetables, being perishable in nature require certain techniques of preservation for retaining the freshness intact and making them an acceptable item even after few days of ripening. It also facilitates the farmer to realize a better price instead of selling the product at a throw away price due to the perishability. This necessity has evolved a new concept of storing these items at below or just above sub-zero temperatures known as cold storage. Introduction of Cold storage/Cold room facility will help them in removing the risk of distress sale and simultaneously will ensure better returns. The annual production of fruits and vegetables in the country accounts for 18 to 20% of our agriculture output. Varied agro climatic conditions and better availability of scientific package of practices, there is a vast scope for increasing the production.

Cold Storage is a special kind of room, the temperature of which is kept very low with the help of machines and precision instruments. India is having a unique geographical position and a wide range of soil, thus producing variety of fruits and vegetables like apples, grapes, oranges, potatoes, chillies, ginger, etc. Marine products are also being produced in large quantities due to large coastal areas. As per 2008-09 figures, India produces around 215 Million Tons of Fruits and Vegetables, 3 Billion Tons of Marine Products, 109 Million Tons of Milk, 56 Billion Eggs and 38 Million Tons of Meat per annum. Commercially apples, potatoes, oranges, etc are stored on large scale in the cold storages. Other important costly raw materials like dry fruits, chemicals, essences and processed foods like fruit juice/pulp, concentrate dairy products, frozen meat, fish and eggs are also stored in cold storages to regulate marketing channels of these products.

A cold storage is a temperature-controlled supply chain network, with storage and distribution activities carried out in a manner such that the temperature of a

product is maintained in a specified range, needed to keep it fresh and edible for a much longer period than in normal ambient conditions.

This system facilitates long distance transport of various products as well as makes seasonal products available over the entire year.

Fruits, vegetables and many other commodities can be preserved by storage at low temperature, which retards the activities of micro organisms. Micro organisms are the spoilage agents and consist of bacteria, yeasts and molds. Low temperature does not destroy those spoilage agents as does high temperature, but greatly reduces their activities, providing a practical way of preserving perishable foods in their natural state which otherwise is not possible through heating.

The low temperature necessary for preservation depends on the storage time required often referred to as short or long term storage and the type of product.

In general, there are three groups of products:

- Foods that are alive at the time of storage, distribution and sale e.g. fruits and vegetables,
- Foods that are no longer alive and have been processed in some form e.g. meat and fish products, and
- Commodities that benefit from storage at controlled temperature e.g. beer, tobacco, khandasari etc.

Living foods such as fruits and vegetables have some natural protection against the activities of micro organism. The best method of preserving these items is to keep the product alive and at the same time retard the natural enzyme activity which will retard the rate of ripening or maturity.

The first cold store in India was reported to have been established in Calcutta in 1892. However significant progress in the expansion of the cold storage industry in the country has been made only after independence. With a view to ensuring the observance of proper conditions in the cold stores and to providing for development of the industry in a scientific manner, the Govt. of India and the ministry of agriculture promulgated an order known as "Cold Storage Order, 1964" under Section 3 of the Essential Commodities Act, 1955. The Agricultural Marketing Advisor to the Govt. of India is the Licensing Officer. A cold storage facility accessible to them will go a long way in removing the risk of distress sale to ensure better returns.

India accounts roughly 10 and 15 per cent in production of fruits and vegetables out of total global production. India have a strong and dynamic food processing sector playing a vital role in diversifying the agricultural sector, improving value addition opportunities and creating surplus food for agro-food products. Presently, a mere 2.2 per cent of fruits and vegetables are processed, even as the country ranks second in the world in terms of production. This is comparatively low when compared to other countries like Brazil (30 per cent), USA (70 per cent) and Malaysia (82 per cent). The National policy aims to increase the percentage of food being processed in the country to 10 per cent by 2010 and 25 per cent by 2025.

Major vegetables grown are Potato, Onion, Tomato, Cauliflower, Cabbage, Bean, Egg Plants, Cucumber, Gherkin, Peas, Garlic and okra. The major fruits grown in India are Mangoes, Grapes, Apple, Apricots, Orange, Banana Fresh, Avocados, Guava, Litchi, Papaya and Water Melons. Mango, accounts for 40 percent of the national fruit production and India is one of the leading exporters of fresh table grapes to the global market. The changing food habits are discernible.

Incentives to build cold-storage facilities will bring investment, cut food wastage and smoothen the supply chain in the world's second biggest producer of fruits and vegetables.

With a view to ensuring faster development of cold storage capacity and to encourage entrepreneurs to invest more in this sector a new credit-linked capital subsidy scheme for construction of cold storages and godowns. The scheme would be implemented by NABARD/NCDC/NHB. National Horticulture Board is providing capital subsidy to entrepreneurs for construction, expansion and modernization of cold storages for horticulture products. This scheme is to promote setting up of cold



storages in the country for reducing post harvest losses. A subsidy of 25% of the project cost subject to a maximum of Rs.50 lakh per project will be availed under this scheme. However, for the projects in the northeastern States, maximum subsidy admissible would be Rs.60 lakh @ 33.33% of the project cost. Cold Storages including controlled Atmosphere (CA) and Modified Atmosphere (MA) Stores, pre-cooling units and other Storages for onion etc.

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Status of Cold Storage and Its Potential in India

The estimated annual production of fruits and vegetables in the country is about 130 million tonnes. This accounts for 18% of our agricultural output. Due to diverse agro climatic conditions and better availability of package of practices, the production is gradually rising. Although, there is a vast scope for increasing the production, the lack of cold storage and cold chain facilities are becoming major bottlenecks in tapping the potential. The cold storage facilities now available are mostly for a single commodity like potato, orange, apple, grapes, pomegranates, flowers, etc. which results in poor capacity utilization.

Food and Storage Conditions

Foods and many other commodities can be preserved by storage at low temperature, which retards the activities of microorganisms. Microorganisms are the spoilage agents and consist of bacteria, yeasts and molds. Low temperature does not destroy those spoilage agents as does high temperature, but greatly reduces their activities, providing a practical way of preserving perishable foods in their natural state which otherwise is not possible through heating.

Desired Storage Environment of Fruits and Vegetables in the cold storage

Commodity	Temperature (°C)	Relative Humidity (%)
Apple		
Apricots		
Avocado		
Asparagus		
Beans, green		
Beet root		
Broccoli		
Black berry		
Cabbage		
Carrots		
Cauliflower		
Cherries		
Cucumber		
Brinjal		
Grapes		
Lemons		
Lettuce		
Lime		
Mango		
Melon water		
Orange		
Peach		
Potato		



B.I.S. Specifications

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IS: 661 (2000) Thermal Insulation of Cold Storage

IS: 3615-1967-Glossary of terms used in refrigeration and air-conditioning

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Government Policies for Cold chain Infrastructure

National Horticulture Board (NHB).

NHB provides capital investment subsidy for construction/expansion/modernization of cold storages:

- Back-ended subsidy @ 40% of the project cost @ Rs 6000/- per MT for normal cold storages, @ Rs 7000 & Rs 8000 per MT for specialized cold storages and @ Rs 32,000per MT for CA storages.

Agricultural & Processed Food Products Export Development Authority (APEDA)

APEDA, under Establishment of common infrastructure facilities, provides financial assistance for setting up specialized storage facilities such as CA / MA cold storages, deep freezers etc:

- 100% grant in aid to APEDA or any other Government or Public Sector agency like Airport Authority of India or Port Trust etc.
- @25% of the cost subject to maximum of Rs. 10 lakh per beneficiaries in other cases.

Department of Agriculture and Cooperation (DAC)

DAC under National Horticulture Mission (NHM) provides financial assistance for Pack house/On farm collection & storage unit, Pre-cooling unit, Cold storage, CA/MA storage, Reefer vans, Ripening chamber, Primary/ Mobile / Minimal processing unit

- Credit linked back-ended subsidy @40% of capital cost of the project in general areas and @55% in case of hilly and schedules areas for a maximum storage capacity of 5000 MT per project @Rs. 6000 per MT.
- For CA storages - @Rs. 32000 per MT for 5000 MT storage capacity.

National Co-operative Development Corporation (NCDC)

NCDC provides subsidy @20% and 25% of the project cost for Under Developed (UD) and Least Developed (LD) states for setting up of New Cold Storages/ CA stores/ MA stores, Expansion/ modernization of existing cold storages with facilities such as drying, sorting, grading, waxing, packing, pre-cooling, etc.

Capital Investment subsidy scheme

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

Description of components and Pattern of Assistance Components: Credit linked projects relating to Cold Storages including Controlled Atmosphere (CA) and their modernization are eligible for assistance under this component. Subsidy need not be credit linked for the institutions like Public Sector Units, Panchayats, cooperatives, registered societies/trust and public limited companies provided they can meet

remaining share of the project cost out of their own resources. Such projects will have to be appraised by appraising agency approved by NHB.

Pattern of Assistance: -

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

Calculation of Capacity for subsidy:-

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

SN	Description	Cost Norms
1	Cold storage units Type 1 - basic mezzanine structure with large chamber (of > 250 MT) type with single temperature zone.	• @ Rs. 8000/ MT for capacity upto 5000 MT. • @ Rs. 7600/ MT for capacity between 5001 to 6500 MT. • @ Rs. 7200/MT for capacity between 6501 to 8000 MT. • @ Rs. 6800/MT for capacity between 8001 to 10000 MT.
2	Cold storage units Type 2 – Pre Engineering Building (PEB) Type for multiple temperature and product use , more than 6 chambers of <250 MT) and basic material handling equipment	• @ Rs.10000/ MT for capacity upto 5000 MT. • @ Rs. 9500/ MT for capacity between 5001 to 6500 MT. • @ Rs. 9000/MT for capacity between 6501 to 8000 MT. • @ Rs. 8500/MT for capacity between 8001 to 10000 MT.
3	Cold Storage Units Type 2 with add on technology for Controlled Atmosphere	Additional Rs. 10,000/MT for add on components of controlled atmosphere technology as per component wise cost (Appendix- 1-D)
4	Technology induction and modernization of cold-chain	• @ Rs. 5000/MT, for capacity between 5001 to 10000 MT. • Components of modernization includes PLC equipment, packaging lines, dock levelers, advanced graders, alternate technologies, stacking system, modernization of insulation and refrigeration etc. Details are in Appendix-

		1-D.
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General Conditions for Cold Storage Projects

- o For credit linked projects, credit components as means of finance of the project should be term loan from banking or non banking financial institutions. For credit linked projects under NHB, eligible subsidy amount to be capped at par with term loan sanctioned by the lending Banks/FI.
- o Assistance for setting up of new Cold Storage infrastructure will be available only to Multi Chamber cold Storage units with technologies which are energy efficient with provision of thermal insulation, humidity controlled, advance cooling systems, automation, etc, having specification and standards approved by the Ministry. To ensure, compliance of notified standards, all projects will be subjected to technical scrutiny by NHB empanelled Technical appraisal agency.
- o Extant specifications standards and protocols on cold storage and cold-chain components will be adhered to while approving cold storage projects

Quantum of Subsidy

Back- ended subsidy @ 40% of the project cost for general and 55% in case of hilly and scheduled areas for maximum storage capacity up to 5,000 per ton under the **Govt. of India/NHB Capital Investment Subsidy Scheme.**

Funding pattern under Capital Investment Subsidy Scheme

Assistance	Through State Government				Direct	
	NCDC to State Govt.		State Govt. to Society			
	General States	HS Areas	General States	HS Areas	General States	HS Areas
Loan	50%	35%	40 %	25%	35%	20%
BES*	40%	55%	40 %	55%	40%	55%
Share Capital	***	***	10 %	10%	***	***
Total	90%	90%	90 %	90%	75%	75%
	10 % by Society				25% by Society	

** subject to availability from Government of India /NHB otherwise loan from NCDC for a cold storage /CA store up to 5,000 ton capacity. HS =Hilly and Scheduled Areas.*



Scheme for Financing Construction of Cold Storages

PURPOSE BEHIND SCHEME FOR FINANCING CONSTRUCTION OF COLD STORAGES:-

To meet the production, investment, and consumption needs of the farmer, i.e. cultivation of crop, purchase of farm equipment, etc., allied activities and consumption needs like marriage, medical treatment, education, etc.

To cover farmers having proven track record and also new farmers who are either not availing any loan or if availing finance from some other Bank, can be taken over if the repayment record is clean and their existing loan account is standard asset. Alternatively they can close their account with their existing Banks and switch over to us.

Eligibility:-

All Co-Operatives,
Companies,
Corporations,
Partnership and Proprietary Firms,
Agriculture Produce Marketing Committees/Boards,
Agro Industries Corporations and Growers' Associations,
Individuals

Quantum of loan:-

50% of the project cost may be considered as term loan. The eligible amount of subsidy also would be allowed as term loan as the subsidy is back ended.



Margin:-

25% of the project cost to be contributed by the applicant.

Repayment Period:-

Maximum 120 months with 18 months moratorium

Subsidy:-

Cold storage unit is eligible for subsidy of 25% of the project cost

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Guidelines for making Subsidy Claim

1. Pattern of Release of Subsidy in credit linked cases

1.1. Full (100%) estimated advance subsidy when claimed after disbursement of more than 50% term loan followed by full and final subsidy settlement after completion.

1.2 Full & Final subsidy, when estimated subsidy claim is not preferred and claim is submitted directly after completion of project.

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

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

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

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

- To respective State Office of NHB - up to the project cost of Rs.50.00 lakh.
- To NHB, HQ, Gurgaon where the project cost is above Rs. 50.00 lakh,

Committee of NHB will consider proposal of FI/Bank for release of estimated subsidy and NHB would release 100% estimated subsidy to the concerned bank/FI as per prevailing cost norms in eligible cases approved by the committee.

The subsidy would be kept frozen by bank/FI in the Subsidy Reserve Fund Account (SRFA) of the Bank.

Release of estimated subsidy will not exceed the limit of sanctioned term loan by FI/Bank for the project.

Documents to be submitted with the estimated subsidy claims :-

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

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

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

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

Documents to be submitted with final subsidy claim

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

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

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

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

1.1.3. Time limit for Completion of project

Time limit for completion of the project would be maximum of 18 months period from the date of disbursement of the 1st installment of term loan , which may be extended by a further period of 3 months, if reasons for delay are considered justified by the financial institution concerned and agreed to by NHB.

If the project is not completed within stipulated period, benefit of subsidy shall not be available and advanced subsidy placed with the participating bank, if any, will have to be refunded to NHB forthwith or not later than 30 days after such period.

1.1.4 Procedure for adjustment of subsidy

Subject to availability of fund, full estimated subsidy amount shall be released as soon as the 50% of the term loan is released to the beneficiary. The estimated subsidy released by NHB would be kept frozen by bank/FI in a separate account termed as Subsidy Reserve Fund Account (SRFA) of the Bank. Subsidy so release shall be frozen in the subsidy reserve fund until the completion of the project and released finally after inspection. Banks shall not charge interest from the beneficiary to the extent of amount available in the Subsidy Reserve Fund for which due credit be given to the beneficiary.

Final settlement will be made only after Joint Inspection by Bank, NHB and State Government representative, and clear written advice of NHB with regard to the eligible project cost and amount of subsidy to be released to the promoters account.

The subsidy will be released to the borrowers term loan account by bank only after receiving the written advice of NHB for this purpose and balance amount would be refunded to NHB within 30 days. For any delay beyond it, bank will be liable to pay interest on the refundable amount. Subsidy amount in the borrower's term loan account should be adjusted only as part of the recovery of last installment.

The subsidy should be refunded if the account becomes an NPA.

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

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

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

Bank branches will furnish the information regarding Account No. of SRFA, name of the project, date and amount of subsidy released by NHB in SRFA, date, amount of subsidy adjusted in term loan (with Account number), date and amount refunded by

bank to NHB on quarterly basis to the state offices of NHB (and also the Head office of NHB in case the subsidy has been released directly by Head Office). State Office In-charge shall review the subsidy releases every month and will monitor its utilization and refund. State-wise register will be maintained by concerned Centre In-charge for centres and by the Finance & Accounts Division for Head Office. Area Officers shall review the subsidy release, utilization and refund quarterly

Internal audit will be conducted (on test basis) of the subsidy release, utilization and refund as per the provisions of the guidelines. F&A Division shall overall monitor the releases, utilization and refund of subsidy regularly and to bring out cases of default and issue suitable advice to concerned Area Officers for taking corrective measures.

1.1.6 Other Provisions:

- Letter of Intent (LOI) will be voluntary for the promoter and would be issued only on the request of the promoter. This will not be required for claim of subsidy.
- 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.
- A signboard displaying “Assisted by National Horticulture Board , Ministry of Agriculture, Govt. of India” will be exhibited at the site.
- 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.
- Other operational instructions issued by NHB from time to time will be strictly followed.
- NHB reserves the right to recall any amount given under the scheme without assigning any reason thereof.
- The participating banks should ensure insurance of the assets created under the project wherever required statutorily.

- Claim can also be submitted after completion of the project. In such cases all documents mentioned with estimated subsidy claim as well as final subsidy claim will be required to be enclosed excepting statement of 50 % term loan disbursement.
- The decision of NHB with regard to eligibility and interpretation of the guidelines shall be final and binding on the beneficiaries and banks.

1.2 Procedure for claim of subsidy without term loan

Release of Subsidy need not be credit linked in North Eastern States for Commercial Horticulture Scheme and for the institutions like Public Sector Units, Panchayats, cooperatives, registered societies/trust and public limited companies for both Commercial Horticulture Scheme as well as Cold storage scheme of Board provided they can meet remaining share of the project cost out of their own resources. Such projects will have to be appraised by appraising agency approved by NHB. Subsidy in such cases would be considered only for new projects after completion of the project and Joint inspection by team constituted by NHB.

1.2.1 Documents to be submitted with Application Form/Subsidy claim

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

- Undertaking in prescribed format
- Statement of Expenditure incurred certified by Chartered Accountant (CA)

List of appraising agencies for non credit-linked projects

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

1.2.3 Other Provisions:

The appraising banks/FI will adhere to the norms of appraising the project regarding technical feasibility and commercial/financial viability

The decision of NHB with regard to eligibility and interpretation of the guidelines shall be final and binding on the beneficiaries.

Pre and post inspection would be undertaken by NHB representative to find out the physical, financial and operational progress as and when required.

A signboard displaying “Assisted by National Horticulture Board, Ministry of Agriculture, Govt. of India” will be exhibited at the site.

Other operational instructions issued by NHB from time to time will be strictly followed.

NHB reserves the right to recall any amount given under the scheme without assigning any reason thereof.

Incentives Provided by the Government

With the objective of providing incentive to create integrated cold chain and preservation infrastructure facilities in the Country, Ministry of Food Processing Industries is implementing the Scheme of Integrated Cold Chain, Value Addition & Preservation Infrastructure. Under the scheme, grant-in-aid is provided @50% of the total cost of Plant and Machinery and Technical Civil Works in general areas and @75% in difficult areas i.e. North-Eastern States, Sikkim, J&K, Himachal Pradesh and Uttarakhand, subject to a maximum of Rs. 10 crore per project.

In addition, National Horticulture Mission (NHM), National Horticulture Board (NHB), and National Cooperative Development Corporation (NCDC) under Ministry of Agriculture, Department of Agriculture and Cooperation, Agricultural and Processed Food Products Export Development Authority (APEDA) under Department of Commerce in the Government of India and State Governments are also providing assistance for setting up cold storages under their respective schemes.

OTHER INCENTIVES PROVIDED BY THE GOVERNMENT TO THE COLD CHAIN SECTOR

1. Under Section 35-AD of the Income tax Act 1961, deduction for expenditure incurred on investment is allowed if this investment is wholly and exclusively for the purpose of

(i) Setting up and operating a cold chain facility; and

(ii) Setting up and operating warehousing facility for storage of agricultural produce. This deduction is allowed to the extent of 150% provided the taxpayer has commenced its business on or after 01.04.2012.

2. Government has extended Project Imports' benefits to Cold storage, cold room (including for farm level pre-cooling) or industrial projects for preservation, storage or processing of agricultural, apiary, horticultural, dairy, poultry, aquatic and marine produce and meat. Consequently, all goods related to Food Processing, imported as part of the project, irrespective of their tariff classification, would be entitled to uniform assessment at concessional basic customs duty of 5%.

3. All refrigeration machineries and Parts used for installation of cold storage, cold room or refrigerated vehicle, for the preservation, storage, transport or processing of agricultural, apiary, horticultural, dairy, poultry, aquatic and marine produce and meat under Tariff Head: Chapter 84 are exempted from Excise Duty.

4. Construction, Erection, Commissioning or installation of original works pertaining to post-harvest storage infrastructure for agricultural produce including Cold storages for such purposes are exempted from Service tax.

5. Capital investment in the creation of modern storage capacity has been made eligible for viability gap funding scheme of the Finance Ministry. The cold chains and post-harvest storage has been recognized as an infrastructure sub-sector.



Procedure for Availing Assistance to Setup Cold Storage

Data Intentionally Removed - Sample Report



FORMAT-I-B

PART-I

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

(to be signed on each page by the applicant)

1) Date of application

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

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

Affixed duly
signed PHOTO
here

A. Beneficiary/Entrepreneur

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

B. Proposed Activity

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

Signature of applicant

4. (A) Existing capacity, if any Chamber (s) Capacity in MT
 Chamber No. 1 2 3 4
 Total
- (B) Proposed new capacity Chamber (s) Capacity in MT
 Chamber No. 1 2 3 4
 Total
- (C) Chamber/Capacity Proposed Chamber (s) Capacity in MT for modernization
 Chamber No. 1 2 3 4
 Total
- (D) Justification for Additional Capacity/Modernization
- B.II (a) Whether proposed activity in application is a completely a new activity: Yes/No
 (if No, the details of pre-existing activity or any component thereof included in the application should be indicated clearly)

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

- C. Proposed Project Cost (Component-wise)
- D. Proposed Means of Finance
 (i) Promoter's share
 (ii) Bank/FI term loan
 (iii) Proposed subsidy from other sources, if any
 a) Form State Govt.
 b) From Central Govt. other than NHB
 Total
- (Note: Unsecured loans from friends/relatives will not be treated as equity)
 Expected back-ended subsidy from NHB: Rs.
 (NHB subsidy will be considered as per Board's guidelines, if found in order, but not guaranteed)
- E. Existing Status of Project
 (Please give details about the activities of the proposed project already completed at the time of submission of application of Letter of Intent (LOI)

- F. Whether any assistance in the form of soft loan and subsidy has been availed by the beneficiary earlier from the National Horticulture Board? If yes, give details thereof.

Signature of applicant



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

Details of subsidy, if availed from:

- (i) MFPI :
(ii) APEDA :
(iii) NHM :
(iv) Technology Mission :

- H. Name of the Bank/FI from where the term loan is availed/to be availed by the Beneficiary (Please enclose a copy of the duly filled up term loan Application).

a) Name of Bank: Bank Branch: Bank Code:.....

- I. Date & Amount of sanction of term loan, if any : _____

- J. Details of release of term loan, if any : _____

- K. Details of land

- i) Whether own land (ancestral) : _____
ii) Whether own land purchased : _____
iii) Whether leased If so, how many years lease : _____
iv) Whether lease/tenancy/contract is registered with the Competent Registration Authority (copy of the proof of each title be enclosed)

- M. Implementation Schedule of Proposed Activity

- N. Marketing of Produce

- O. Cost of Application Form & Scheme Brochure will be as under:

Projects costing upto Rs. 10.00 lakh	:	Rs. 1000/-
Projects costing above Rs. 10.00 lakh and upto Rs. 20.00 lakh	:	Rs. 2000/-
Projects costing above Rs. 20.00 lakh and upto Rs. 50.00 lakh	:	Rs. 5000/-
Projects costing above 50.00 lakh	:	Rs. 10000/-

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

- P. Please remit the cost of application and scheme brochure by Demand Draft drawn in favour of National Horticulture Board payable at Gurgaon Haryana)

- Q. Name & address of consultant who prepared the project report (DPR).

SELF DECLARATION

I hereby declare and certify that :

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 outrightly at any stage by the Board.



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

Date

(Signature of the Applicant(s))

Place:.....

Name and Address

Telephone/Fax No.

Mobile No :

E mail

Enclosures:

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

Data Intention



Part -2
FORMAT – I-B

Basic Data Sheet

A. Identification

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

B. Basic Cold Store Design Considerations

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

Signature of applicant

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

ii) Fresh Air / Ventilation System

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

iii) Cold Store Chamber Sizing and Capacity

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

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

iv) Ante Room & Process Areas

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

v) Machine Room & Utility Areas

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

Signature of applicant

vi) Building & Construction Details

– Type of construction : Civil/ Pre-engineered Building

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

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

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

Signature of applicant

viii) Cold Store Doors & Air Curtains

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

ix) Material Handling

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

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

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

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

Procedure	Brief Description
Process Line	
Total Connected Load (kw)	

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

C. Heat Load Calculation of Cooling System – Summary

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

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

Signature of applicant



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

Multipliers	Safety Factor		
	Defrost Period		

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

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

D. Cooling System Design & Equipment Selection

i) Cooling System Configuration

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

ii) Compressor Detail

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

iii) Condenser Details

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

Signature of applicant

iv) Cooling Tower Details (if applicable)

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

v) Air Cooling Units (ACU)

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

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

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

Electrical Instillation

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

Signature of applicant

E. Safety Provisions

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

F. Codes & Standards Followed

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

F. Codes & Standards Followed

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

Signature of applicant



H. Operation & Maintenance

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

I. Estimated Performance Parameters of Proposed Cold Store

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

J. Other Information

Place :

Date :

Signature and
Name of Applicant with seal

Place :

Date :

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

Data Int



FORMAT-II-A

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

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

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

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

Sir,

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

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

It is certified that:

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



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

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

(Signature of the Bank Officer with Seal)

Name : _____

Name of the Bank : _____

Address : _____

Phone/Fax/Mobile No.: _____

E-mail : _____

Place: _____

Date: _____

Data Intention



FORMAT II-C

Undertaking TO BE GIVEN WITH SUBSIDY CLAIM FORM

(APPLICABLE FOR COMMERCIAL HORTICULTURE AND COLD STORAGE SCHEME)

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

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



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

Date : _____

Signature of the Applicant/Authorized Person

Place: _____

Data Intentionally Removed - Sample



FORMAT III-B

Joint Inspection Report*

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

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert

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

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

12. Date of start of the project : _____

13. Date of completion of the project : _____

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

b) Repayment Period : _____

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

Date _____ Amount (Rs.in lakhs)

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

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

16.

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

17. Land details

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

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

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

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

17a. Cold Store Chamber Sizing and Capacity:

i) No. of chambers : _____

ii) Size of Chambers
1) _____ 2) _____ 3) _____ 4) _____

iii) Type : Mezzanine/ Palletized _____

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert



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

Technical Deviations

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert

Date



LOG SHEET COLD STORE - Compressor

TO BE FURNISHED BY THE PROMOTER

Please fill separate sheet for separate Compressor

DATE.:

COMPRESSOR - 1 / 2 / 3 / 4

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert



COLD STORE

To be filled by Promoter

Date.:

Please fill separate sheet for separate Cold Storage
Cold Storage no, 1/2/3/4

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert



TEST READINGS

Date

TO BE FILLED DURING INSPECTION

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert

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

FINAL INSPECTION REPORT FORMAT FOR COLD STORE

TO BE FURNISHED BY THE PROMOTER.

Date:

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert

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

Means of finance

(Amount in Rs.)

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert

Details of component-wise cost in the project:-

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

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

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

C.) Recommendation of the Inspection Officer

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

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert



Details of sanctions by Financial Bank

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

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

i) Term Loan(1st)			
-------------------	--	--	--

ii) Term Loan(2nd)			
--------------------	--	--	--

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

i) Term Loan(1st)			
-------------------	--	--	--

ii) Term Loan(2nd)			
--------------------	--	--	--

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

Whether the repayment is/are regular:	Yes/No
---------------------------------------	--------

Name of officer to be associated with Inspection Team

Name & Signature
Of Applicant

Name & Signature
of Inspecting Officer
(NHB)

Name & Signature
of Inspecting Officer (Bank)

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

Name & Signature
of Expert



FORMAT-IV-B

To

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

Dear Sir,

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

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



FORMAT-IV-C

Utilization Certificate

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

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

Date :

Data Int



Market Survey

Data Intentionally Redacted

Sample Report

Cold storages are essential for extending the shelf life of the products, reducing transport bottlenecks during the peak period of production and maintenance of the quality of produce. The development of cold storage industry has therefore an important role to play in reducing the wastages of the perishable commodities and thus providing remunerative prices to the farmers.

According to current status of cold storages, their total capacities have reached 31 million MT even though India allows 100 per cent Foreign Direct Investments (FDIs) in setting up of its cold chains with proposed futures' 30 mega food parks to propel demand for cold storage and transportation.



Over the past 5-7 years with healthy growth in organized retail industry and quick service restaurants, increasing penetration of food processing industry. The organized players have been successful in setting up cold storages in key urban locations.



Temperature Controlled Warehouse (TCW)

Data Intentionally Removed - Sample Report



Temperature Controlled Transportation (TCT)

Data Intentionally Removed - Sample Report



The Objectives of FCAOI

Data Intentionally Removed - Sample Report

State-wise Number of Cold Storages in India

State-wise Number of Cold Storages in India (As on 31.3.2014)	
States/UTs	Number of Cold Storages
Andaman and Nicobar Islands	
Andhra Pradesh	
Arunachal Pradesh	
Assam	
Bihar	
Chandigarh	
Chhattisgarh	
Delhi	
Goa	
Gujarat	
Haryana	
Himachal Pradesh	
Jammu and Kashmir	
Jharkhand	
Karnataka	
Kerala	
Lakshadweep	
Madhya Pradesh	
Maharashtra	
Manipur	
Meghalaya	
Mizoram	
Nagaland	
Odisha	
Puducherry	
Punjab	
Rajasthan	
Sikkim	
Tamil Nadu	
Tripura	
Uttar Pradesh	
Uttarakhand	
West Bengal	
India	

[illegible]

Mizoram												
Meghalaya												
Odisha												
Punjab												
Rajasthan												
Sikkim												
Tamil Nadu												
Tripura												
Uttarakhand												
Uttar Pradesh												
West Bengal												
India												

Data Intentionally Removed - Sample Report

Scheme-wise Number of Cold Storages

Scheme-wise Number of Cold Storages and Assistance Sanctioned in India						
(Rs. in Lakh)						
Year	NHM		NHB		MoFPI	
	Number of Cold Storages	Assistance Sanctioned	Number of Cold Storages	Assistance Sanctioned	Number of Cold Chain Projects	Assistance Released
India						

Data Intentionally Removed - Sample Report

Status of Cold Storage

Status of Cold Storage Sanctioned under Capital Investment Subsidy Scheme for Constriction/Expansion/Modernisation of Cold Storage for Horticulture Produce (NABARD/NCDC/NHB/NAFED) in Gujarat									
(Rs. in Lakh)									
State	No.	Capacity (MT)	Eligible Subsidy	No.	Capacity (MT)	Eligible Subsidy	No.	Capacity (MT)	Eligible subsidy
Gujarat									
India									

Selected State-wise Number of Cold Storages

Selected State-wise Number of Cold Storages and Capacity Set up for Fisheries in India						
States	No.	Capacity (MT)	No.	Capacity (MT)	No.	Capacity (MT)
Kerala						
Karnataka						
Maharashtra						
Goa						
Gujarat						
West Bengal						
Odisha						
Andhra Pradesh						
Tamil Nadu						
India						

Financials & Comparison of Major Players/Companies

Source: CMIE

About Financial Statements of CMIE Database

A reasonably comprehensive list of all the information is listed in this flattened structure. The list reflects the usual disclosures made by companies. It is long as it tries to capture as much of granular information as possible.

Separately, CMIE database captures the disclosures made by companies in their Annual Reports according to the various Accounting Standards specified by the Institute of Chartered Accountants of India and according to the stipulations of the Reserve Bank of India.

There is an overlap of information presented and the disclosures as per the Accounting Standards and RBI stipulations. The data is normalized as per the CMIE database methodology and the rest is captured without normalization since these presentations are highly standardized.

Profits & Appropriations

Description:

There are various measures of profits of companies. These are either gross or net of depreciation, amortisation, interest payments, direct taxes, prior-period and extra-ordinary transactions, etc. All measures of profits are essentially derived from the entries made under income and expenses in the CMIE database. Since all sources of income and all heads of expenses are captured comprehensively in CMIE database, it is possible to derive the various measures of profits from these.

Profit after tax is an atomic indicator in CMIE database. The rest of the profit measures are all derived indicators. The profits after tax and all other measures of profits as derived from the database may differ from the profits as presented by the company. The most likely cause for this difference is the treatment of transactions pertaining to prior periods or because of extra-ordinary transactions during a year.

As mentioned earlier, profit after tax is an atomic Indicator in CMIE database. All other measures of profits are derived Indicators and these are presented in Measures of Profits under Derived Indicators of Profits. Some of these are applicable only to finance companies. These are PBPDTA and PBPT and their variants. PBDITA and its variants are applicable only to non-finance companies. The other two derived measures of profits used in CMIE database are PBT and Cash profits. These are applicable to all kinds of companies like PAT and its variants.

The term "variants" used earlier refers to the various income and expense items that are netted out to derive measures of profits that are often more useful than the profit measures gross of these.

For example, one of the variants is the suffix "net of P&E". "P&E" is prior period and extra-ordinary transactions. Profits are reduced by the net income from prior period and extra-ordinary transactions to ensure that the profits reflect transactions of the current year. Other variant suffixes are "net of P&E&OI", which is net of prior period and extra-ordinary transactions and net of other income; and, "net of P&E&OI&FI", which is net of prior period and extra-ordinary transactions, net of other income and net of financial services incomes.

All these variants for the various profit measures are presented under Measures of Profits.

Derived Indicators of Profits includes one set of measures under Distribution of Profits. There are distributions of four measures of profits. These are - PBDITA, PBPDITA, PBPT and PAT. While the distribution of PAT shows the share of dividends and retained profits, the rest show the share of PAT and other components of the measures of profits. For example, PBDITA consists of provisions, write-offs, depreciation, amortisation, interest and PAT.

Profitability ratios are derived Indicators based on measures of profits, income and assets and liabilities. Over 35 such measures are provided in the CMIE database. These are divided into two parts - profit margins of income and returns over investments.

A number of Indicators that are used in the derivation of the sources of growth in profits are presented under the sub-part Sources of growth in profits. There are three measures of profits for which these Indicators are provided - PBDITA, PBT and PAT. Growth itself is computed at run-time and is not stored in CMIE database. However, these Indicators are used to understand the sources of growth in the three measures of profits. This understanding is based on a simple but useful arithmetical construct.

Total Liabilities

Description:

Total liabilities of a company are the sum of all the resources deployed by it. It includes all sums it owes to the shareholders in the form of share capital and reserves and surpluses, all sums it owes its lenders in the form of secured and unsecured loans and all current liabilities and provisions. It includes deferred tax liability.

In the CMIE database, total liabilities balance total assets and, total liabilities is the sum of the following:

1. Paid up shares and similar capital such as, forfeited equity capital, paid up preference capital, capital contribution, convertible warrants and minority interest reserves.
2. Reserves and funds, net of accumulated losses, if any. These include premium reserves, capital redemption reserves, revaluation reserves, employee stock option reserves, general reserves and balance as per profit and loss statement. While revaluation reserves is included here, in most presentations of CMIE database, it is netted out.
3. Borrowings
4. Current liabilities & Provisions
5. Deferred tax liability

The Annual Report provides a lot of information besides a structured presentation as outlined above. For example, it provides details of the authorised capital, issued and subscribed capital, number of shares issued, details of buy-backs, etc. All of this is covered under the Addendum information of Liabilities.

CMIE database makes fine distinctions in defining share holders funds and net worth. It defines free and specific reserves and capital employed clearly so that the same definitions apply to all companies. All of this a some more Indicators are presented in Derived Indicators of Liabilities.

Derived Indicators also include an entire section "Secured & unsecured borrowings". This section helps in the selection of Indicators relating to borrowings directly. The presentation in the main listing of all Indicators has one list of secured borrowings with its detailed break-up and another list of unsecured borrowings with its detailed break-up. As a result, the selection of total bank borrowings implied always adding secured bank borrowings and unsecured bank borrowings. To avoid the tedium, the Derived Indicators of Liabilities includes this section that provides the secured and unsecured borrowings for most of the frequently used borrowing items.

Data Intentionally Removed - Sample Report

Total Assets

Description:

Total assets is a sum total of all the assets held by a company as on the last day of an accounting period. An asset is recognised in the balance sheet when it is probable that the future economic benefits associated with it will flow to the enterprise. As per Part I of Schedule VI of Companies Act 1956, assets are required to be disclosed under the heads Fixed Assets, Investments, Current Assets, Loans and Advances and Miscellaneous Expenditure not written off. This data field is broadly the sum of the amounts disclosed under each of these assets. Computationally and more precisely, this is the sum of the following data fields:

- Net fixed assets
- Capital work in progress and net pre-operative expenses pending allocation, if any
- Investments
- Inventories
- Receivables
- Loans & advances
- Cash & bank balances
- Deferred tax assets
- Miscellaneous expenses not written off

Net Cash Flow from Operating Activities

Description:

Cash flow from operating activities is the cash generated from the main or primary business activities of the company.

A company can present the cash flow statement under the direct or indirect method of presentation. This data field provides the amount of cash flow generated from operating activities, which is calculated, under the indirect method.

Under indirect method, the net profit or loss before tax and extraordinary income is used to calculate the amount of net cash flow generated from operating activities. In other words, the indirect method adjusts net income for items that affected reported net income but did not affect cash. Since income statement is prepared on an accrual basis, in which revenue is recognized when earned and not when received, net income does not represent the net cash flow from operating activities and it is necessary to adjust it for those items which affect net income although no actual cash has been paid or received against them.

To compute net cash flows from operating activities, non cash charges in the income statement are added back to net income, and non cash incomes deducted. Further, cash flows on account of changes in the working capital of the company are included.

When accounts receivable increase during the year, revenues on an accrual basis are higher than on a cash basis because goods sold on account are reported as revenues. In other words, operations for the period led to increased revenues, but not all of these revenues resulted in an increase in cash. Some of the increase in revenues resulted in an increase in accounts receivable. To convert net income to net cash flow from operating activities, the increase in accounts receivable must be deducted from net income.

When accounts payable increase during the period, expenses on an accrual basis are higher than they are on a cash basis because expenses are incurred for



which payment has not taken place. To convert net income to net cash flow from operating activities, the increase in accounts payable must be added back to net income.

Cash flows from operating activities are obtained, broadly, by the following method:

Add: Net Profit before tax and extraordinary incomes Add: Non-cash Expenses (Depreciation, Amortization, Provisions made, write offs) Less: Non-cash Incomes (provisions written back) Add: Non-operating Expenses (Interest paid) Less: Non-operating Incomes (Interest, dividend income) Add: Non-operating Losses (Loss on Sale of Non-Current Assets, Foreign exchange losses) Less: Non-operating Gains (Gain on Sale of Non-Current Assets, Foreign exchange gains)



Section – I

This section comprises of selected companies with their contact details. These companies have major market share in their respective field.

Data Intentionally Removed - Sample Report

Name of Company with Contact Details

Company Name	Address1	Address2	District	Pincode	State	Telephone No.	Fax No.	Email address	Web Site
Allana Cold Storage Ltd.	Allana House, 4, Allana Road,	Opposite Electric House, Colaba,	Mumbai	400001	Maharashtra	22811000	22044821	allanasons@allana.com	www.allana.com
Anjaneya Cold Storage Ltd.	Allana House, 4	Allana Road, Colaba,	Mumbai	400001	Maharashtra	22811000	22044821	ankhan@allana.com	www.allana.com
Asvini Fisheries Pvt. Ltd.	No. 3, Second Canal Cross Road,	Gandhi Nagar, Adyar,	Chennai	600020	Tamil Nadu	24423313	24423316	vss@asvini.co.in	
H M G Industries Ltd.	C-21/6, T T C Industrial Area,	Pawne Village, MIDC Area,	Thane	400703	Maharashtra	27681943		hasita@ethernet.net	www.hmgindustries.in
Hindusthan Ice & Cold Storage Co. Ltd.	8, Ho-Cho-Minh Sarani,	Suite No 26, 2nd Floor,	Kolkata	700071	West Bengal	22826985	40050930	hics.ltd@yahoo.co.in	
Ideal Ice & Cold Storage Co. Ltd.	Mandlik House,	Mandlik Road,	Mumbai	400001	Maharashtra				
Indagro Foods Ltd.	Allana House,	4 J A Allana Marg, Colaba,	Mumbai	400001	Maharashtra	22811000	22044821	allanasons@allana.com	www.allana.com
Jindal Steel & Alloys Ltd.	Jindal Centre,	12, Bhikaji Cama Place,	South West Delhi	110066	Delhi	26188360	26170691	kantilal.patel@jsw.in	
Karnavati Cold Storage Ltd.	33/1, Laxminagar Society, Naroda,	B/H Adeshwarnagar,	Gandhinagar	382340	Gujarat				
Karnimata Cold Storage Ltd.	Village-Chekuasole, Po-Jogerdanga,	PS-Goaltore,			West Bengal	218314	265193	karnimatacoldstorage@gmail.com	
Kisan Cold Storage & Refrigeration Service Ltd.	Musallapur,	Bari Road,	Patna	800006	Bihar	2686973		sinha.vikramaditya@gmail.com	
Mohan Meakin Ltd.	Solan Brewery P O,	(Shimla Hills),	Solan	173214	Himachal Pradesh	30222	30350		
Nav Bharat Refrigeration & Inds. Ltd.	Simplex Mills Compound, 30,	Keshavrao Khadye Marg, Sant Gadge Maharaj Chowk,	Mumbai	400011	Maharashtra				
Prabhu Hira Ice & Cold Storage Ltd.	89,	Mittal Chambers, Nariman Point,	Mumbai	400021	Maharashtra				

Ram'S Assorted Cold Storage Ltd.	Dinalipi Bhawan, A-54/1 & A-55/1,	Nayapalli, Baramunda,			Orissa	2563832	2562083	suryo.udyo@gmail.com	www.racsl.com
Sri Vatsa Hotels Ltd.	9-1-199 To 218, Sona Arcade,	St. Marry's Road,	Hyderabad	500003	Telangana				
Universal Cold Storage Pvt. Ltd.	Old No.60, New No.30, 28th Cross	Street, Indira Nagar,	Chennai	600020	Tamil Nadu				
Uptown Trading & Investments Ltd.	A-33, 213, Kukreja Centre,	Plot No 13, Sec-11, C.B.D Belapur,	Thane	400614	Maharashtra				

Data Intentionally Removed - Sample Report

Name of Director(S)

Company Name	Date	Director Name
Allana Cold Storage Ltd.	3/31/2005	K C Mehta
Allana Cold Storage Ltd.	3/31/2005	S N Bhatri
Anjaneya Cold Storage Ltd.	3/31/2005	S N Kheriwala
Anjaneya Cold Storage Ltd.	3/31/2005	S M Sumar
Asvini Fisheries Pvt. Ltd.	3/31/2006	Maram Subba Rao
Asvini Fisheries Pvt. Ltd.	3/31/2006	Chandrasekaran Selvan
Asvini Fisheries Pvt. Ltd.	3/31/2006	V S Sivarama
H M G Industries Ltd.	3/31/2013	Zaki Hajeebhoy
H M G Industries Ltd.	3/31/2013	Veera Somaya
H M G Industries Ltd.	3/31/2013	Edgar J Kamath
Hindusthan Ice & Cold Storage Co. Ltd.	3/31/2003	Sheo Kumar Jhunjhunwala
Hindusthan Ice & Cold Storage Co. Ltd.	3/31/2003	Ashish Jhunjhunwala
Hindusthan Ice & Cold Storage Co. Ltd.	3/31/2003	Umesh Kumar Dhandhanja
Ideal Ice & Cold Storage Co. Ltd.	3/31/2013	Faisal Momen
Ideal Ice & Cold Storage Co. Ltd.	3/31/2013	S Y Raman
Ideal Ice & Cold Storage Co. Ltd.	3/31/2013	Sudheer Bahl
Indagro Foods Ltd.	3/31/2007	K C Mehta
Indagro Foods Ltd.	3/31/2007	T K Gowrishankar
Indagro Foods Ltd.	3/31/2007	Asha B Laud
Indagro Foods Ltd.	3/31/2007	S P Chopra
Indagro Foods Ltd.	3/31/2007	Nazir Hussain
Indagro Foods Ltd.	3/31/2007	J N Atal
Jindal Steel & Alloys Ltd.	3/31/2010	R C Sharma
Jindal Steel & Alloys Ltd.	3/31/2010	K N Patel
Jindal Steel & Alloys Ltd.	3/31/2010	V K Nowal (Dr.)
Jindal Steel & Alloys Ltd.	3/31/2010	Rajinder Prakash
Jindal Steel & Alloys Ltd.	3/31/2010	Subhash Sharma
Jindal Steel & Alloys Ltd.	3/31/2010	Om Prakash Agarwal
Jindal Steel & Alloys Ltd.	3/31/2010	Manish Mathur
Karnavati Cold Storage Ltd.	3/31/2004	Kanaiyalal Kanjani
Karnimata Cold Storage Ltd.	9/30/2013	Pradip Lodha
Karnimata Cold Storage Ltd.	9/30/2013	Sushila Lodha
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2006	Arvind Kumar
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2006	Hira Lal Prasad
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2006	B P Gupta
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2006	R S Prasad
Mohan Meakin Ltd.	3/31/2012	Kapil Mohan (Brig.) (Dr.)
Mohan Meakin Ltd.	3/31/2012	Hemant Mohan

Mohan Meakin Ltd.	3/31/2012	P D Goswami
Mohan Meakin Ltd.	3/31/2012	Vinay Mohan
Mohan Meakin Ltd.	3/31/2012	L K Malhotra
Mohan Meakin Ltd.	3/31/2012	J K Jain
Mohan Meakin Ltd.	3/31/2012	Swaraj Suri
Mohan Meakin Ltd.	3/31/2012	M Nandagopal
Mohan Meakin Ltd.	3/31/2012	Yash Kumar Sehgal
Mohan Meakin Ltd.	3/31/2012	H N Handa
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2010	S K Somany
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2010	Shreelekha Damani (Smt.)
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2010	N S Damani
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2010	O D Purohit
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2010	G G Damani
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2010	B K Binani
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2010	S K Verma
Prabhu Hira Ice & Cold Storage Ltd.	3/31/1997	S P Thakkar
Prabhu Hira Ice & Cold Storage Ltd.	3/31/1997	R P Thakkar
Ram'S Assorted Cold Storage Ltd.	3/31/2006	Ajit Padhee
Ram'S Assorted Cold Storage Ltd.	3/31/2006	Subhor Banerjee
Ram'S Assorted Cold Storage Ltd.	3/31/2006	Sankar Prasad Das
Sri Vatsa Hotels Ltd.	3/31/2012	Viidyaa Moravekar
Sri Vatsa Hotels Ltd.	3/31/2012	Arun Tari
Sri Vatsa Hotels Ltd.	3/31/2012	Babu S Iyer
Sri Vatsa Hotels Ltd.	3/31/2012	Shobha Barde
Universal Cold Storage Pvt. Ltd.	3/31/2007	Afzal Esmail Kader
Universal Cold Storage Pvt. Ltd.	3/31/2007	Parvez Hamza Kader
Universal Cold Storage Pvt. Ltd.	3/31/2007	Najib Hamza Kader
Universal Cold Storage Pvt. Ltd.	3/31/2007	Abdul Razzak Ganj
Uptown Trading & Investments Ltd.	3/31/2005	Obaidur Rehman
Uptown Trading & Investments Ltd.	3/31/2005	Mohd Abdullah Obaid
Uptown Trading & Investments Ltd.	3/31/2005	Mohd Nadir Obaid
Uptown Trading & Investments Ltd.	3/31/2005	Abdul Qadir
Uptown Trading & Investments Ltd.	3/31/2005	Shahida Sultana
Uptown Trading & Investments Ltd.	3/31/2005	Ravi Chhabra

Plant Capacity

Company Name	Product/Raw Material name	Year ended	Capacity	Capacity - Unit	Production	Production - Unit	Sales quantity	Sales quantity - Unit	Sales value
		(Date)	(units)		(units)		(units)		(Rs. Million)
Allana Cold Storage Ltd.	Cold Storage	200803	31869	Cubic metres					
Allana Cold Storage Ltd.	Cold Storage	200903	31869	Cubic metres					
Allana Cold Storage Ltd.	Cold Storage	201003	31869	Cubic metres					
Allana Cold Storage Ltd.	Cold Storage & Presevation Charges	200803							47.8
Allana Cold Storage Ltd.	Cold Storage & Presevation Charges	200903							26.4
Allana Cold Storage Ltd.	Cold Storage & Presevation Charges	201003							23.7
Allana Cold Storage Ltd.	Freezing Plants	200803	51000	Tonnes					
Allana Cold Storage Ltd.	Freezing Plants	200903	51000	Tonnes					
Allana Cold Storage Ltd.	Freezing Plants	201003	51000	Tonnes					
Allana Cold Storage Ltd.	Frozen Foodstuffs	200803			24859.63	Tonnes	24186.95	Tonnes	1796.2
Allana Cold Storage Ltd.	Frozen Foodstuffs	200903			23841.4	Tonnes	22783.99	Tonnes	2417.5
Allana Cold Storage Ltd.	Frozen Foodstuffs	201003			11215.6	Tonnes	12324.19	Tonnes	1435.5
Allana Cold Storage Ltd.	Gel Bones	201003			697.24	Tonnes	628.65	Tonnes	15.2
Allana Cold Storage Ltd.	Poly-Ethylene Bags, Sheets & Tubings	200803	3084	Tonnes					
Allana Cold Storage Ltd.	Poly-Ethylene Bags, Sheets & Tubings	200903	3084	Tonnes					
Allana Cold Storage Ltd.	Poly-Ethylene Bags, Sheets	201003	3084	Tonnes					

	&Tubings								
Allana Cold Storage Ltd.	Poultry Feed Supplement	200903	7.2	'000 tonnes	0.04	'000 tonnes			
Allana Cold Storage Ltd.	Poultry Feed Supplement	201003	7.2	'000 tonnes	3.87	'000 tonnes	3.9	'000 tonnes	91.5
Allana Cold Storage Ltd.	Processing Charges	200803							11.4
Allana Cold Storage Ltd.	Processing Charges	200903							8.7
Allana Cold Storage Ltd.	Processing Charges	201003							7.5
Allana Cold Storage Ltd.	Raw Fat (Buffalo Origin)	200903	1920	Tonnes	917.49	Tonnes	896.58	Tonnes	13.4
Allana Cold Storage Ltd.	Raw Fat (Buffalo Origin)	201003	1920	Tonnes	3143.57	Tonnes	3110	Tonnes	83.9
Allana Cold Storage Ltd.	Scrap Sale	200803							4.3
Allana Cold Storage Ltd.	Scrap Sale	200903							5
Allana Cold Storage Ltd.	Scrap Sale	201003							3.5
Anjaneya Cold Storage Ltd.	Cold Storage	200803	2120	Cubic metres					
Anjaneya Cold Storage Ltd.	Cold Storage	200903	2120	Cubic metres					
Anjaneya Cold Storage Ltd.	Cold Storage	201003	2120	Cubic metres					
Anjaneya Cold Storage Ltd.	Freezing Plant	200803	42000	Tonnes	16349.91	Tonnes	16245.81	Tonnes	1360.2
Anjaneya Cold Storage Ltd.	Freezing Plant	200903	42000	Tonnes	12443.17	Tonnes	12673.66	Tonnes	1478.5
Anjaneya Cold Storage Ltd.	Freezing Plant	201003	42000	Tonnes	11657.79	Tonnes	11702.33	Tonnes	1473.9
Anjaneya Cold Storage Ltd.	Others	200803							6
Anjaneya Cold Storage Ltd.	Others	200903							26.3
Anjaneya Cold Storage Ltd.	Others	201003							16.5
Asvini Fisheries Pvt. Ltd.	Flake Lce	200803	15	Tonnes/d					
Asvini Fisheries Pvt. Ltd.	Flake Lce	200903	35	Tonnes/d					
Asvini Fisheries Pvt. Ltd.	Flake Lce	201003	35	Tonnes/d					
Asvini Fisheries Pvt. Ltd.	Frozen Storage	200803	770	Tonnes					
Asvini Fisheries Pvt. Ltd.	Frozen Storage	200903	770	Tonnes					
Asvini Fisheries	Frozen Storage	201003	770	Tonnes					

Pvt. Ltd.									
Asvini Fisheries Pvt. Ltd.	Ice Plant	200803	30	Tonnes/d ay	4795	Tonnes			
Asvini Fisheries Pvt. Ltd.	Ice Plant	200903	30	Tonnes/d ay	4249	Tonnes			
Asvini Fisheries Pvt. Ltd.	Ice Plant	201003	30	Tonnes/d ay	4697	Tonnes			
Asvini Fisheries Pvt. Ltd.	Live Shrimp Seeds	200803	50	Million nos					
Asvini Fisheries Pvt. Ltd.	Live Shrimp Seeds	200903	50	Million nos					
Asvini Fisheries Pvt. Ltd.	Live Shrimp Seeds	201003	50	Million nos					
Asvini Fisheries Pvt. Ltd.	Shrimps	200803	56	Tonnes/d ay	1576.18	Tonnes	1799.59	Tonnes	702.8
Asvini Fisheries Pvt. Ltd.	Shrimps	200903	56	Tonnes/d ay	1223.51	Tonnes	1321.85	Tonnes	558.6
Asvini Fisheries Pvt. Ltd.	Shrimps	201003	56	Tonnes/d ay	1386.67	Tonnes	1410.84	Tonnes	604.7
H M G Industries Ltd.	Cold Storage	201103							8.4
H M G Industries Ltd.	Cold Storage	201203							8.4
H M G Industries Ltd.	Cold Storage	201303							
H M G Industries Ltd.	Freezing & Processing	201103							25.5
H M G Industries Ltd.	Freezing & Processing	201203							19.8
H M G Industries Ltd.	Freezing & Processing	201303							38.9
H M G Industries Ltd.	Ice	201103							0.6
H M G Industries Ltd.	Ice	201203							1.3
H M G Industries Ltd.	Ice	201303							2.2
H M G Industries Ltd.	Income From Processing Charges	200803							27.8
H M G Industries Ltd.	Income From Processing Charges	200903							23.2
H M G Industries Ltd.	Income From Processing Charges	201003							35.7
H M G Industries Ltd.	Income From Processing Charges	201103							5.1
H M G	Income From	201203							6

Industries Ltd.	Processing Charges								
H M G Industries Ltd.	Income From Processing Charges	201303							
Hindusthan Ice & Cold Storage Co. Ltd.	Block Ice	200803			318.36Tonnes		315.8Tonnes		11.7
Hindusthan Ice & Cold Storage Co. Ltd.	Block Ice	200903			320.33Tonnes		317.39Tonnes		11.4
Hindusthan Ice & Cold Storage Co. Ltd.	Block Ice	201003			348.27Tonnes		344.88Tonnes		13.5
Hindusthan Ice & Cold Storage Co. Ltd.	Block Ice	201103			409.31Tonnes		292.37Tonnes		14.3
Hindusthan Ice & Cold Storage Co. Ltd.	Cube Ice	200803			1758.52Tonnes		1758.52Tonnes		4.5
Hindusthan Ice & Cold Storage Co. Ltd.	Cube Ice	200903			1857.03Tonnes		1758.52Tonnes		4.8
Hindusthan Ice & Cold Storage Co. Ltd.	Cube Ice	201003			2377.1Tonnes		2377.1Tonnes		6.8
Hindusthan Ice & Cold Storage Co. Ltd.	Cube Ice	201103			3148.32Tonnes		3148.32Tonnes		10.3
Hindusthan Ice & Cold Storage Co. Ltd.	Refrigation Income	200803							24.4
Hindusthan Ice & Cold Storage Co. Ltd.	Refrigation Income	200903							31.1
Hindusthan Ice & Cold Storage Co. Ltd.	Refrigation Income	201003							38
Hindusthan Ice & Cold Storage Co. Ltd.	Refrigation Income	201103							42.7
Indagro Foods Ltd.	Cold Storage	200803	14980	Cubic metres					
Indagro Foods Ltd.	Cold Storage	200903	14980	Cubic metres					
Indagro Foods Ltd.	Cold Storage	201003	14980	Cubic metres					
Indagro Foods Ltd.	Frozen Buffalo Meat	200803	149400	Tonnes	40040.27Tonnes		50582.24Tonnes		3362.2
Indagro Foods Ltd.	Frozen Buffalo Meat	200903	149400	Tonnes	43830.14Tonnes		69691.84Tonnes		7143.3

Indagro Foods Ltd.	Frozen Buffalo Meat	201003	149400	Tonnes	41521.51	Tonnes	55573.52	Tonnes	6248.7
Indagro Foods Ltd.	Gel Bones	200803			990.65	Tonnes	975.7	Tonnes	15.6
Indagro Foods Ltd.	Gel Bones	200903			1265	Tonnes	1212	Tonnes	26.2
Indagro Foods Ltd.	Gel Bones	201003			1062.95	Tonnes	1054.35	Tonnes	26.2
Indagro Foods Ltd.	Hides	200803							471.6
Indagro Foods Ltd.	Hides	200903							293.7
Indagro Foods Ltd.	Hides	201003							160.3
Indagro Foods Ltd.	Meat & Bone Meat	200803	21600	Tonnes	12789.6	Tonnes	12813.71	Tonnes	204.1
Indagro Foods Ltd.	Meat & Bone Meat	200903	36000	Tonnes	9498	Tonnes	9469.17	Tonnes	202.5
Indagro Foods Ltd.	Meat & Bone Meat	201003	36000	Tonnes	8281.12	Tonnes	8331.48	Tonnes	203.4
Indagro Foods Ltd.	Others	200803							7.1
Indagro Foods Ltd.	Others	200903							43.3
Indagro Foods Ltd.	Others	201003							231.5
Indagro Foods Ltd.	Pet Food	200903							8.2
Indagro Foods Ltd.	Pet Food	201003							63.4
Indagro Foods Ltd.	Sale Of Scrap	200803							1.1
Indagro Foods Ltd.	Technical Fats (Buffalo Origin)	200803	5760	Tonnes	6119.09	Tonnes	6069.15	Tonnes	186.9
Indagro Foods Ltd.	Technical Fats (Buffalo Origin)	200903	9600	Tonnes	3895.84	Tonnes	3769.78	Tonnes	117.5
Indagro Foods Ltd.	Technical Fats (Buffalo Origin)	201003	9600	Tonnes	3686.19	Tonnes	3844.89	Tonnes	110.1
Jindal Steel & Alloys Ltd.	Conducting Charges	200803							10
Jindal Steel & Alloys Ltd.	Consultancy Income	200903							147.5
Jindal Steel & Alloys Ltd.	Consultancy Income	201003							102.5
Jindal Steel & Alloys Ltd.	Dividend Income	200903							23.2
Jindal Steel & Alloys Ltd.	Dividend Income	201003							1.7
Kisan Cold Storage & Refrigeration	Carrot (Gajar)	200803	546	Packets					

Service Ltd.									
Kisan Cold Storage & Refrigeration Service Ltd.	Carrot (Gajar)	200903	1478	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Carrot (Gajar)	201003	768	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Cashew Nut (Kaju)	200803	210	Tins					
Kisan Cold Storage & Refrigeration Service Ltd.	Cashew Nut (Kaju)	200903	472	Tins					
Kisan Cold Storage & Refrigeration Service Ltd.	Cashew Nut (Kaju)	201003	373	Tins					
Kisan Cold Storage & Refrigeration Service Ltd.	Drytase	200803	264	Bags					
Kisan Cold Storage & Refrigeration Service Ltd.	Drytase	200903	1032	Bags					
Kisan Cold Storage & Refrigeration Service Ltd.	Drytase	201003	382	Bags					
Kisan Cold Storage & Refrigeration Service Ltd.	Eggs	200803	19124	Cartons					
Kisan Cold Storage & Refrigeration Service Ltd.	Eggs	200903	22903	Cartons					
Kisan Cold Storage & Refrigeration Service Ltd.	Eggs	201003	24861	Cartons					
Kisan Cold Storage & Refrigeration Service Ltd.	Fruits (Apple)	200803	2374	Boxes					
Kisan Cold Storage	Fruits (Apple)	200903	9726	Boxes					

&Refrigeration Service Ltd.									
Kisan Cold Storage & Refrigeration Service Ltd.	Fruits (Apple)	201003	5086	Boxes					
Kisan Cold Storage & Refrigeration Service Ltd.	Grapes	200903	9864	Cartons					
Kisan Cold Storage & Refrigeration Service Ltd.	Grapes	201003	16048	Cartons					
Kisan Cold Storage & Refrigeration Service Ltd.	Khoa	200803	64	Tins					
Kisan Cold Storage & Refrigeration Service Ltd.	Khoa	201003							
Kisan Cold Storage & Refrigeration Service Ltd.	Milk	200803	110	Tins					
Kisan Cold Storage & Refrigeration Service Ltd.	Milk	200903	2174	Tins					
Kisan Cold Storage & Refrigeration Service Ltd.	Milk	201003	154	Tins					
Kisan Cold Storage & Refrigeration Service Ltd.	Palm	200803	670	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Palm	200903	1292	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Palm	201003	922	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Pear (Naspati)	200803	985	Boxes					
Kisan Cold Storage & Refrigeration Service Ltd.	Pear (Naspati)	200903	6974	Boxes					

Storage & Refrigeration Service Ltd.									
Kisan Cold Storage & Refrigeration Service Ltd.	Pear (Naspati)	201003	2480	Boxes					
Kisan Cold Storage & Refrigeration Service Ltd.	Peas	200803	310	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Peas	200903	1816	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Peas	201003	434	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Potatoes	200803	1.6	'000 tonnes					
Kisan Cold Storage & Refrigeration Service Ltd.	Potatoes	200903	1.6	'000 tonnes					
Kisan Cold Storage & Refrigeration Service Ltd.	Potatoes	201003	1.6	'000 tonnes					
Kisan Cold Storage & Refrigeration Service Ltd.	Potatoes (Packets)	200803	2849	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Potatoes (Packets)	200903	3038	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Potatoes (Packets)	201003	4813	Packets					
Kisan Cold Storage & Refrigeration Service Ltd.	Raisin (Kismis)	200803	176	Cartons					
Kisan Cold Storage & Refrigeration Service Ltd.	Raisin (Kismis)	200903	833	Cartons					

Kisan Cold Storage & Refrigeration Service Ltd.	Raisin (Kismis)	201003	328	Cartons					
Kisan Cold Storage & Refrigeration Service Ltd.	Storage Rent (Potatoes,Fruit s,Etc.)	200803							1.1
Kisan Cold Storage & Refrigeration Service Ltd.	Storage Rent (Potatoes,Fruit s,Etc.)	200903							1.3
Kisan Cold Storage & Refrigeration Service Ltd.	Storage Rent (Potatoes,Fruit s,Etc.)	201003							1.5
Mohan Meakin Ltd.	Apple Cider	200803		Kls					
Mohan Meakin Ltd.	Apple Cider	200903		Kls					
Mohan Meakin Ltd.	Apple Cider	201003		Kls					
Mohan Meakin Ltd.	Apple Cider	201103		Kls					
Mohan Meakin Ltd.	Beer	200803	48500	'000 litres	23006	'000 litres	26224	'000 litres	1116.4
Mohan Meakin Ltd.	Beer	200903	48500	'000 litres	21871	'000 litres	24837	'000 litres	1025.4
Mohan Meakin Ltd.	Beer	201003	48500	'000 litres	25169	'000 litres	29931	'000 litres	1253.1
Mohan Meakin Ltd.	Beer	201103	48500	'000 litres	23043	'000 litres	30834	'000 litres	1438.9
Mohan Meakin Ltd.	Beer	201203							1227.3
Mohan Meakin Ltd.	Beer	201303							1272.1
Mohan Meakin Ltd.	Castings	200803	0.24	'000 tonnes	0.03	'000 tonnes			
Mohan Meakin Ltd.	Castings	200903	0.24	'000 tonnes	0.03	'000 tonnes			
Mohan Meakin Ltd.	Castings	201003	0.24	'000 tonnes	0.03	'000 tonnes			
Mohan Meakin Ltd.	Castings	201103	0.24	'000 tonnes	0.03	'000 tonnes			
Mohan Meakin Ltd.	Charges For Use F Land,Buildings & Machinery Etc	200803							7.9
Mohan Meakin Ltd.	Charges For Use F	200903							9.4

	Land,Buildings & Machinery Etc								
Mohan Meakin Ltd.	Charges For Use F Land,Buildings & Machinery Etc	201003							12.4
Mohan Meakin Ltd.	Cold Storage	200803							1.4
Mohan Meakin Ltd.	Cold Storage	200903							1.1
Mohan Meakin Ltd.	Cold Storage	201003							2.2
Mohan Meakin Ltd.	Cold Storage	201103							1.9
Mohan Meakin Ltd.	Cold Storage	201203							2.3
Mohan Meakin Ltd.	Cold Storage	201303							2.2
Mohan Meakin Ltd.	Glass Bottles	200803	40880	Tonnes	27313	Tonnes	21930	Tonnes	322.4
Mohan Meakin Ltd.	Glass Bottles	200903	40880	Tonnes	26826	Tonnes	21375	Tonnes	366.6
Mohan Meakin Ltd.	Glass Bottles	201003	40880	Tonnes	26816	Tonnes	21684	Tonnes	365.1
Mohan Meakin Ltd.	Glass Bottles	201103	40880	Tonnes	26471	Tonnes	20568	Tonnes	368.3
Mohan Meakin Ltd.	Glass Bottles	201203							394.4
Mohan Meakin Ltd.	Glass Bottles	201303							407.5
Mohan Meakin Ltd.	Ice	200803	17000	Tonnes					
Mohan Meakin Ltd.	Ice	200903	17000	Tonnes					
Mohan Meakin Ltd.	Ice	201003	17000	Tonnes					
Mohan Meakin Ltd.	Ice	201103	12500	Tonnes					
Mohan Meakin Ltd.	Juices, Jam & Canned Products	200803	3000	'000 litres	275	'000 litres	330	'000 litres	10.7
Mohan Meakin Ltd.	Juices, Jam & Canned Products	200903	3000	'000 litres	532	'000 litres	514	'000 litres	17.4
Mohan Meakin Ltd.	Juices, Jam & Canned Products	201003	3000	'000 litres	579	'000 litres	580	'000 litres	20.9
Mohan Meakin Ltd.	Juices, Jam & Canned	201103	3000	'000 litres	563	'000 litres	600	'000 litres	23.1

	Products								
Mohan Meakin Ltd.	Juices, Jam & Canned Products	201203							23.9
Mohan Meakin Ltd.	Juices, Jam & Canned Products	201303							23
Mohan Meakin Ltd.	Liquid & Dry Co2 Gas	200803	789	Tonnes	8	Tonnes	8	Tonnes	0.1
Mohan Meakin Ltd.	Liquid & Dry Co2 Gas	200903	789	Tonnes	2	Tonnes	1	Tonnes	
Mohan Meakin Ltd.	Liquid & Dry Co2 Gas	201003	789	Tonnes					
Mohan Meakin Ltd.	Liquid & Dry Co2 Gas	201103	789	Tonnes					
Mohan Meakin Ltd.	Maize,Rice & Corn Flakes	200803	3942	Tonnes	2743	Tonnes	2911	Tonnes	221.3
Mohan Meakin Ltd.	Maize,Rice & Corn Flakes	200903	3942	Tonnes	3389	Tonnes	3401	Tonnes	257.5
Mohan Meakin Ltd.	Maize,Rice & Corn Flakes	201003	3942	Tonnes	3458	Tonnes	3480	Tonnes	268.9
Mohan Meakin Ltd.	Maize,Rice & Corn Flakes	201103	3942	Tonnes	3178	Tonnes	3209	Tonnes	265
Mohan Meakin Ltd.	Maize,Rice & Corn Flakes	201203							287.8
Mohan Meakin Ltd.	Maize,Rice & Corn Flakes	201303							279.9
Mohan Meakin Ltd.	Malt Extract	200803	1.8	'000 tonnes	0.01	'000 tonnes			
Mohan Meakin Ltd.	Malt Extract	200903	1.8	'000 tonnes					
Mohan Meakin Ltd.	Malt Extract	201003	1.8	'000 tonnes					
Mohan Meakin Ltd.	Malt Extract	201103	1.8	'000 tonnes					
Mohan Meakin Ltd.	Mineral Water & Mineral Water Soda	200803	8250	'000 litres	98	'000 litres	99	'000 litres	0.1
Mohan Meakin Ltd.	Mineral Water & Mineral Water Soda	200903	8250	'000 litres					
Mohan Meakin Ltd.	Mineral Water & Mineral Water Soda	201003	8250	'000 litres					
Mohan Meakin Ltd.	Mineral Water & Mineral Water Soda	201103	8250	'000 litres					
Mohan Meakin Ltd.	Miscellaneous	200803							282.9
Mohan Meakin	Miscellaneous	200903							246.3

Ltd.									
Mohan Meakin Ltd.	Miscellaneous	201003							234
Mohan Meakin Ltd.	Miscellaneous	201103							190.4
Mohan Meakin Ltd.	Miscellaneous	201203							49
Mohan Meakin Ltd.	Miscellaneous	201303							41.7
Mohan Meakin Ltd.	Pearl Barley	200803		'000 tonnes					
Mohan Meakin Ltd.	Pearl Barley	200903		'000 tonnes					
Mohan Meakin Ltd.	Pearl Barley	201003		'000 tonnes					
Mohan Meakin Ltd.	Pearl Barley	201103		'000 tonnes					
Mohan Meakin Ltd.	Royalty & Technical Know-How	200803							26.1
Mohan Meakin Ltd.	Royalty & Technical Know-How	200903							25.3
Mohan Meakin Ltd.	Royalty & Technical Know-How	201003							29.3
Mohan Meakin Ltd.	Royalty & Technical Know-How	201103							38.2
Mohan Meakin Ltd.	Royalty & Technical Know-How	201203							51.9
Mohan Meakin Ltd.	Royalty & Technical Know-How	201303							60
Mohan Meakin Ltd.	Spirit	200803	18186.68	Lakh proof kls	1305.3	Lakh proof kls	14138.71	Lakh proof kls	2048.5
Mohan Meakin Ltd.	Spirit	200903	18186.68	Lakh proof kls	1358.39	Lakh proof kls	14933.58	Lakh proof kls	2315.5
Mohan Meakin Ltd.	Spirit	201003	18186.68	Lakh proof kls	532.81	Lakh proof kls	12032.35	Lakh proof kls	1703.9
Mohan Meakin Ltd.	Spirit	201103	18186.68	Lakh proof kls	440.35	Lakh proof kls	10965.75	Lakh proof kls	1795.7
Mohan Meakin Ltd.	Spirit	201203							2747.9
Mohan Meakin Ltd.	Spirit	201303							3264.5
Mohan Meakin Ltd.	Wheat Flakes	200803	350	Tonnes					
Mohan Meakin Ltd.	Wheat Flakes	200903	350	Tonnes					

Ltd.									
Mohan Meakin Ltd.	Wheat Flakes	201003	350	Tonnes					
Mohan Meakin Ltd.	Wheat Flakes	201103	350	Tonnes					
Mohan Meakin Ltd.	Wheat Flakes	201203							
Mohan Meakin Ltd.	Wheat Flakes	201303							
Mohan Meakin Ltd.	Wheat Porridge	200803	150	Tonnes	51	Tonnes	51	Tonnes	1.8
Mohan Meakin Ltd.	Wheat Porridge	200903	150	Tonnes	57	Tonnes	52	Tonnes	1.9
Mohan Meakin Ltd.	Wheat Porridge	201003	150	Tonnes	115	Tonnes	120	Tonnes	3
Mohan Meakin Ltd.	Wheat Porridge	201103	150	Tonnes	68	Tonnes	70	Tonnes	2.7
Mohan Meakin Ltd.	Wheat Porridge	201203							2.2
Mohan Meakin Ltd.	Wheat Porridge	201303							2.4
Mohan Meakin Ltd.	White Oats	200803		'000 tonnes					
Mohan Meakin Ltd.	White Oats	200903		'000 tonnes					
Mohan Meakin Ltd.	White Oats	201003		'000 tonnes					
Mohan Meakin Ltd.	White Oats	201103		'000 tonnes					
Mohan Meakin Ltd.	Yeast (Different Type)	200803		'000 tonnes					
Mohan Meakin Ltd.	Yeast (Different Type)	200903		'000 tonnes					
Mohan Meakin Ltd.	Yeast (Different Type)	201003		'000 tonnes					
Mohan Meakin Ltd.	Yeast (Different Type)	201103		'000 tonnes					
Nav Bharat Refrigeration & Inds. Ltd.	Cold Storage	200803	44853	Cubic metres					12.7
Nav Bharat Refrigeration & Inds. Ltd.	Cold Storage	200903	44853	Cubic metres					14
Nav Bharat Refrigeration & Inds. Ltd.	Cold Storage	201003	44853	Cubic metres					15.6

Nav Bharat Refrigeration & Inds. Ltd.	Cold Storage	201203							17.7
Nav Bharat Refrigeration & Inds. Ltd.	Cold Storage	201303							19.1
Nav Bharat Refrigeration & Inds. Ltd.	Ice	200803	5767	Tonnes	1340	Tonnes	1340	Tonnes	2.1
Nav Bharat Refrigeration & Inds. Ltd.	Ice	200903	5767	Tonnes	1589	Tonnes	1589	Tonnes	2.6
Nav Bharat Refrigeration & Inds. Ltd.	Ice	201003	5767	Tonnes	1492	Tonnes	1492	Tonnes	2.6
Nav Bharat Refrigeration & Inds. Ltd.	Ice	201203							1.8
Nav Bharat Refrigeration & Inds. Ltd.	Ice	201303							2.2
Ram'S Assorted Cold Storage Ltd.	Freezing	200803	17.5	Tonnes/d ay					
Ram'S Assorted Cold Storage Ltd.	Freezing	200903	17.5	Tonnes/d ay					
Ram'S Assorted Cold Storage Ltd.	Freezing	201003	17.5	Tonnes/d ay					
Ram'S Assorted Cold Storage Ltd.	Freezing	201103	17.5	Tonnes/d ay					
Ram'S Assorted Cold Storage Ltd.	Freezing	201203	8.01	Tonnes/d ay					
Ram'S Assorted Cold Storage Ltd.	Ice	200803	20	Tonnes/d ay	22	Tonnes/d ay			
Ram'S Assorted Cold Storage Ltd.	Ice	200903	20	Tonnes/d ay	17	Tonnes/d ay			
Ram'S Assorted Cold Storage Ltd.	Ice	201003	20	Tonnes/d ay	35	Tonnes/d ay			
Ram'S Assorted Cold Storage Ltd.	Ice	201103	20	Tonnes/d ay	68	Tonnes/d ay			
Ram'S Assorted Cold Storage Ltd.	Ice	201203	20	Tonnes/d ay	138	Tonnes/d ay			

Ram'S Assorted Cold Storage Ltd.	Prawn	200803					3.95Tonnes	4.1
Ram'S Assorted Cold Storage Ltd.	Prawn	200903			516.31Tonnes		498.07Tonnes	130.9
Ram'S Assorted Cold Storage Ltd.	Prawn	201003			740.18Tonnes		655.7Tonnes	259.5
Ram'S Assorted Cold Storage Ltd.	Prawn	201103			1210.13Tonnes		1103.85Tonnes	474.9
Ram'S Assorted Cold Storage Ltd.	Prawn	201203			1719.34Tonnes		1598.47Tonnes	854.2
Ram'S Assorted Cold Storage Ltd.	Storage	200803		Tonnes/d 300ay				
Ram'S Assorted Cold Storage Ltd.	Storage	200903		Tonnes/d 300ay				
Ram'S Assorted Cold Storage Ltd.	Storage	201003		Tonnes/d 300ay				
Ram'S Assorted Cold Storage Ltd.	Storage	201103		Tonnes/d 300ay				
Ram'S Assorted Cold Storage Ltd.	Storage	201203		Tonnes/d 300ay				
Universal Cold Storage Pvt. Ltd.	Flake Ice Machine	200803		Tonnes/d 37ay				
Universal Cold Storage Pvt. Ltd.	Flake Ice Machine	200903		Tonnes/d 37ay				
Universal Cold Storage Pvt. Ltd.	Flake Ice Machine	201003		Tonnes/d 37ay				
Universal Cold Storage Pvt. Ltd.	Freezing	200803		Tonnes/d 18ay				
Universal Cold Storage Pvt. Ltd.	Freezing	200903		Tonnes/d 18ay				
Universal Cold Storage Pvt. Ltd.	Freezing	201003		Tonnes/d 18ay				
Universal Cold Storage Pvt. Ltd.	Frozen Storage	200803		Cubic metres				
Universal Cold Storage Pvt. Ltd.	Frozen Storage	200903		Cubic metres				
Universal Cold Storage Pvt. Ltd.	Frozen Storage	201003		Cubic metres				
Universal Cold Storage Pvt. Ltd.	Ice Plant	200803		Tonnes/d 18ay				
Universal Cold Storage Pvt. Ltd.	Ice Plant	200903		18Tonnes/d				

Storage Pvt. Ltd.				ay					
Universal Cold Storage Pvt. Ltd.	Ice Plant	201003		Tonnes/d 18ay					
Universal Cold Storage Pvt. Ltd.	Prawns	200803			914.21Tonnes	824.54Tonnes		310.6	
Universal Cold Storage Pvt. Ltd.	Prawns	200903			572.18Tonnes	633.91Tonnes		269.1	
Universal Cold Storage Pvt. Ltd.	Prawns	201003			722.04Tonnes	721.01Tonnes		284.2	
Uptown Trading & Investments Ltd.	Cold Storage	201103						12.6	
Uptown Trading & Investments Ltd.	Milk Chilling Income	200803						0.8	
Uptown Trading & Investments Ltd.	Milk Chilling Income	200903						1.4	
Uptown Trading & Investments Ltd.	Milk Chilling Income	201003						2.7	
Uptown Trading & Investments Ltd.	Potato & Onion Rent	200803						7.7	
Uptown Trading & Investments Ltd.	Potato & Onion Rent	200903						9.1	
Uptown Trading & Investments Ltd.	Potato & Onion Rent	201003						4.4	
Uptown Trading & Investments Ltd.	Traded Goods	201003						1.4	
Uptown Trading & Investments Ltd.	Traded Goods	201103						0.9	
Uptown Trading & Investments Ltd.	Trading Goods	200803						0.3	

Location of Plant

Company Name	State	District	Location	Product	Year End
Allana Cold Storage Ltd.	Maharashtra	Thane	Turbhe	Frozen Foodstuffs	3/31/2010
Allana Cold Storage Ltd.	Maharashtra	Thane	Turbhe	Gel Bones	3/31/2010
Allana Cold Storage Ltd.	Maharashtra	Thane	Turbhe	Poultry Feed Supplement	3/31/2010
Allana Cold Storage Ltd.	Maharashtra	Thane	Turbhe	Raw Fat (Buffalo Origin)	3/31/2010
Anjaneya Cold Storage Ltd.	NCT of Delhi	NCT of Delhi	Lawrence Road	Freezing Plant	3/31/2010
Asvini Fisheries Pvt. Ltd.	Tamil Nadu	Chennai	Chennai	Shrimps	3/31/2010
Asvini Fisheries Pvt. Ltd.	West Bengal	Kolkata	Calcutta	Shrimps	3/31/2010
H M G Industries Ltd.	Maharashtra	Raigarh (MAH)	Taloja	Paper Products	3/31/2005
H M G Industries Ltd.	Maharashtra	Thane	Tarapur	Chemical Products	3/31/2005
Indagro Foods Ltd.	Maharashtra	Mumbai	Colaba	Frozen Buffalo Meat	3/31/2010
Indagro Foods Ltd.	Maharashtra	Mumbai	Colaba	Gel Bones	3/31/2010
Indagro Foods Ltd.	Maharashtra	Mumbai	Colaba	Meat & Bone Meat	3/31/2010
Indagro Foods Ltd.	Maharashtra	Mumbai	Colaba	Technical Fats (Buffalo Origin)	3/31/2010
Jindal Steel & Alloys Ltd.	Haryana	Hisar	Delhi Road (Hisar)	Cold Rolled Strips/Sheet	3/31/2005
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Kasauli	Beer	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Kasauli	Glass Bottles	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Kasauli	Juices, Jam & Canned Products	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Kasauli	Maize,Rice & Corn Flakes	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Kasauli	Spirit	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Kasauli	Wheat Porridge	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Solan	Beer	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Solan	Glass Bottles	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Solan	Juices, Jam & Canned Products	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Solan	Maize,Rice & Corn Flakes	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Solan	Spirit	3/31/2013
Mohan Meakin Ltd.	Himachal Pradesh	Solan	Solan	Wheat Porridge	3/31/2013

	Pradesh				
Mohan Meakin Ltd.	Punjab	Patiala	Mohangram (Bhankarpur)	Beer	3/31/2013
Mohan Meakin Ltd.	Punjab	Patiala	Mohangram (Bhankarpur)	Glass Bottles	3/31/2013
Mohan Meakin Ltd.	Punjab	Patiala	Mohangram (Bhankarpur)	Juices, Jam & Canned Products	3/31/2013
Mohan Meakin Ltd.	Punjab	Patiala	Mohangram (Bhankarpur)	Maize,Rice & Corn Flakes	3/31/2013
Mohan Meakin Ltd.	Punjab	Patiala	Mohangram (Bhankarpur)	Spirit	3/31/2013
Mohan Meakin Ltd.	Punjab	Patiala	Mohangram (Bhankarpur)	Wheat Porridge	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Ghaziabad	Mohannagar	Beer	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Ghaziabad	Mohannagar	Glass Bottles	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Ghaziabad	Mohannagar	Juices, Jam & Canned Products	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Ghaziabad	Mohannagar	Maize,Rice & Corn Flakes	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Ghaziabad	Mohannagar	Spirit	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Ghaziabad	Mohannagar	Wheat Porridge	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Lucknow	Lucknow	Beer	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Lucknow	Lucknow	Glass Bottles	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Lucknow	Lucknow	Juices, Jam & Canned Products	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Lucknow	Lucknow	Maize,Rice & Corn Flakes	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Lucknow	Lucknow	Spirit	3/31/2013
Mohan Meakin Ltd.	Uttar Pradesh	Lucknow	Lucknow	Wheat Porridge	3/31/2013
Nav Bharat Refrigeration & Inds. Ltd.	Uttar Pradesh	Farrukhabad	Farrukhabad	Ice	3/31/2013
Ram'S Assorted Cold Storage Ltd.	Orissa	Puri	Bhubaneswar	Ice	3/31/1996
Universal Cold Storage Pvt. Ltd.	Tamil Nadu	Chennai	Chennai	Prawns	3/31/2010

Name of Raw Material(S) Consumed With Quantity & Cost

Company Name	Product/Raw Material name	Date	Year Ended	Raw material quantity	Unit of raw material qty	Raw material value	Unit value of Raw material
			(Date)	(Units)		(Rs. Million)	(Rs./All Units)
Allana Cold Storage Ltd.	Meat And Mutton Products	3/31/2010	201003	25284.43	Tonnes	1199.1	0.05
	Others	3/31/2010	201003			2.6	
Anjaneya Cold Storage Ltd.	Meat	3/31/2010	201003	20170649	Kgs	1270.8	0
	Others	3/31/2010	201003			0.1	
Asvini Fisheries Pvt. Ltd.	Shrimps	3/31/2010	201003			600.9	
H M G Industries Ltd.	Packing Material	3/31/2013	201303			1.4	
Hindusthan Ice & Cold Storage Co. Ltd.	Ammonia	3/31/2011	201103			0.4	
	Salt	3/31/2011	201103	124527	Kgs	0.3	0
	Water	3/31/2011	201103				
Indagro Foods Ltd.	Buffalo Meat	3/31/2010	201003	51028905	Kgs	3505.4	0
	Green Peas	3/31/2010	201003	12875133	Kgs	148.3	0
	Others	3/31/2010	201003			158.2	
	Sheep Carcase	3/31/2010	201003	3007	Kgs	0.5	0
Jindal Steel & Alloys Ltd.	Hot Rolled Strips	3/31/2004	200403	3200	Tonnes	56.8	0.02
Mohan Meakin Ltd.	Barley, Maize, Wheat, Rice & Flakes Etc.	3/31/2013	201303			119.6	
	Bottles	3/31/2013	201303			137.7	
	Cullet	3/31/2013	201303			60	
	Flavouring Material	3/31/2013	201303			17.5	
	Hops & Hop Pellets	3/31/2013	201303			2.1	
	Malt & Malt Extracts	3/31/2013	201303			68.2	
	Molasses	3/31/2013	201303			1.8	
	Other Fruits, Vegetables, Juices Etc.	3/31/2013	201303			4.8	
	Other Packing Materials	3/31/2013	201303			217.7	
	Silica Sand	3/31/2013	201303			21.8	

	Soda Ash	3/31/2013	201303			71.2	
	Spirit	3/31/2013	201303			189.5	
	Sugar	3/31/2013	201303			30.3	
	Sundry Chemicals & Essences	3/31/2013	201303			18.1	
Nav Bharat Refrigeration & Inds. Ltd.	Ammonia	3/31/2013	201303			0.3	
	Salt	3/31/2013	201303			0.1	
Ram'S Assorted Cold Storage Ltd.	Raw Material	3/31/2012	201203	2926073.41	Kgs	849.2	0
Universal Cold Storage Pvt. Ltd.	Prawns	3/31/2010	201003	743458	Kgs	281.4	0

Data Intentionally Removed - Sample Report

Section– II

This section provides comparative financial performance of companies given in Section – I. This comparison will be helpful to analysis the companies on the basis of their financials viz... Assets, Cash Flow, Cost as % Ge of Sales, Forex Transaction, Growth in Assets & Liabilities, Growth in Income & Expenditure, Income & Expenditure, Liabilities, Liquidity Ratios, Profitability Ratio, Profits, Return Ratios, Structure of Assets & Liabilities (%), Working Capital & Turnover Ratios , etc.....

Data Intentionally Removed - Sample Report

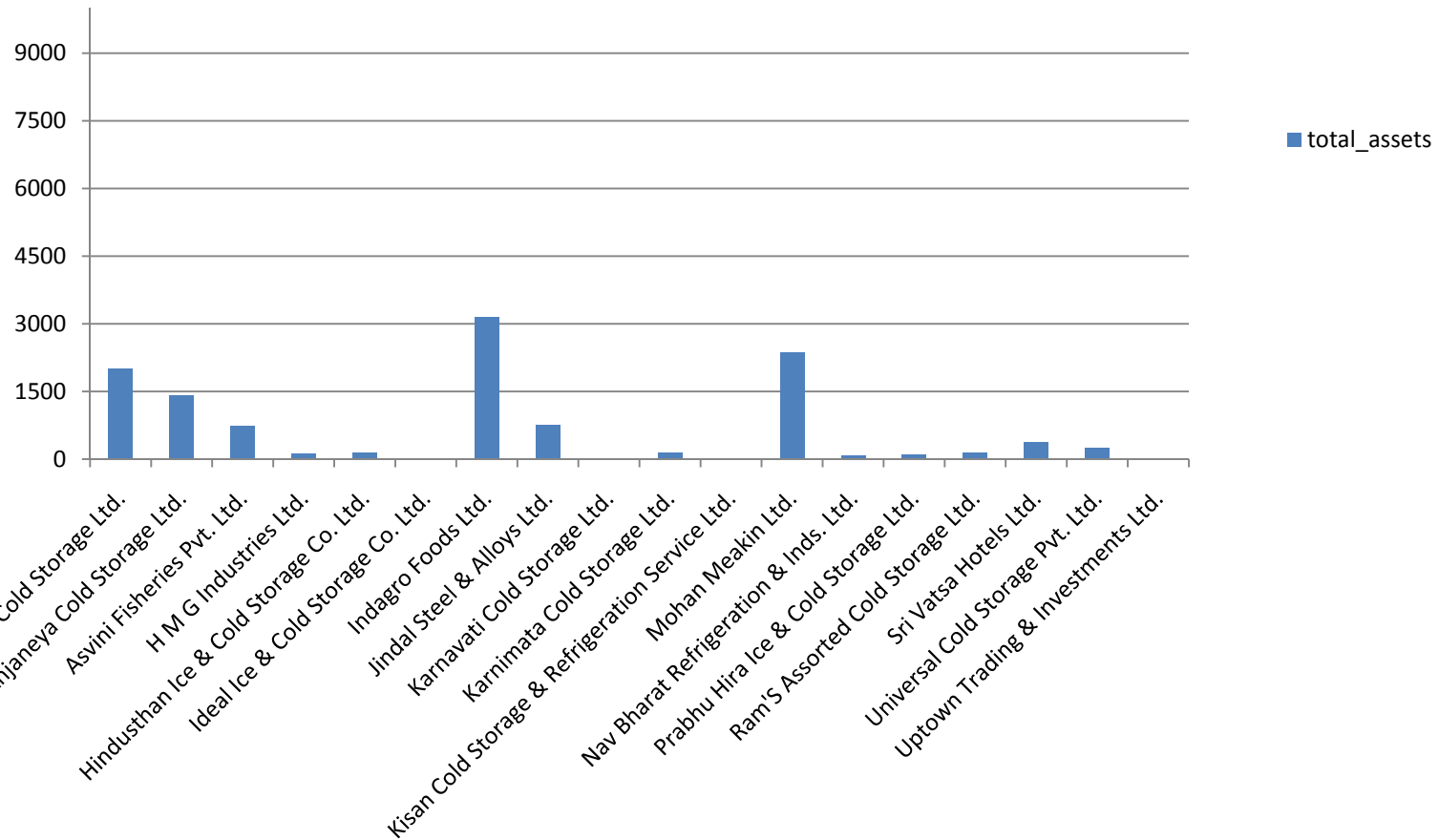
Assets

		Rs. Million	Rs. Million				Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million
Company Name	ym(finan ce_year)	gross_fix ed_asset s	cap_wip	(net_fixe d_assets)	((cash_ba nk_bal - prevy(cas h_bank_ bal)))	((inventori es - prevy(inve ntories)))	receiva bles	adv_pay ment_of _exp	loans_and _adv	sundry_ creditor s	total_a ssets
Allana Cold Storage Ltd.	201203	280.9	5.5	149.3	22.4	163.6	780.5	26.4	47.6	250.4	2007
Anjaneya Cold Storage Ltd.	201203	87.2	1.2	57.8	6.7	71.1	949.8	0.5	7.2	196.8	1412.8
Asvini Fisheries Pvt. Ltd.	200903	248.9	7.7	120.5	6.6	-5.7	17.1	97.2	255.8	31.3	729
H M G Industries Ltd.	201303	293.6		90.9	1.8		1.5	4.7	22.9	8.9	118.7
Hindusthan Ice & Cold Storage Co. Ltd.	201003	160.9		94	-0.1	-0.2	14.7	0.1	6.7	9.3	126.5
Ideal Ice & Cold Storage Co. Ltd.	201403				0			0.2	0.2		0.4
Indagro Foods Ltd.	201003	1287.4	9	622.5	219.9	-209.2	959.1	1.5	45.4	141	3136
Jindal Steel & Alloys Ltd.	201003				7.5		40.7	10.4	94.2		754.6
Karnavati Cold Storage Ltd.	200403										
Karnimata Cold Storage Ltd.	201309	93.2	10.4	86.8	-8.4	1	4.9	0.2	16.5	0	132.1
Kisan Cold Storage & Refrigeration Service Ltd.	201203	4.5		0.3							0.3
Mohan Meakin Ltd.	201303	919.3	53.6	288.2	30.7	24	988.6	105.4	306.6	734.6	2348.5
Nav Bharat Refrigeration & Inds. Ltd.	201303	30.5		12.5	-0.3		0.1	1.1	49.7		76.1
Prabhu Hira Ice & Cold Storage Ltd.	199703	67.5	9.7	57.2	0.8		6.5	0.7	12.7		87.8
Ram'S	201003	102.8	1.1	69.3	-8.6	23.4	26.2	0.5	3.4		139.9



Assorted Cold Storage Ltd.											
Sri Vatsa Hotels Ltd.	201203	1.1	327.7	1	7.6	1.6		0.1	2.8	12.8	378.5
Universal Cold Storage Pvt. Ltd.	200503	56.8		20.7	0.6	29.1	22	4.4	45	18.3	252.3
Uptown Trading & Investments Ltd.	201003	18.3		3.4	0.8		0.2		0.3	1.1	6

total_assets

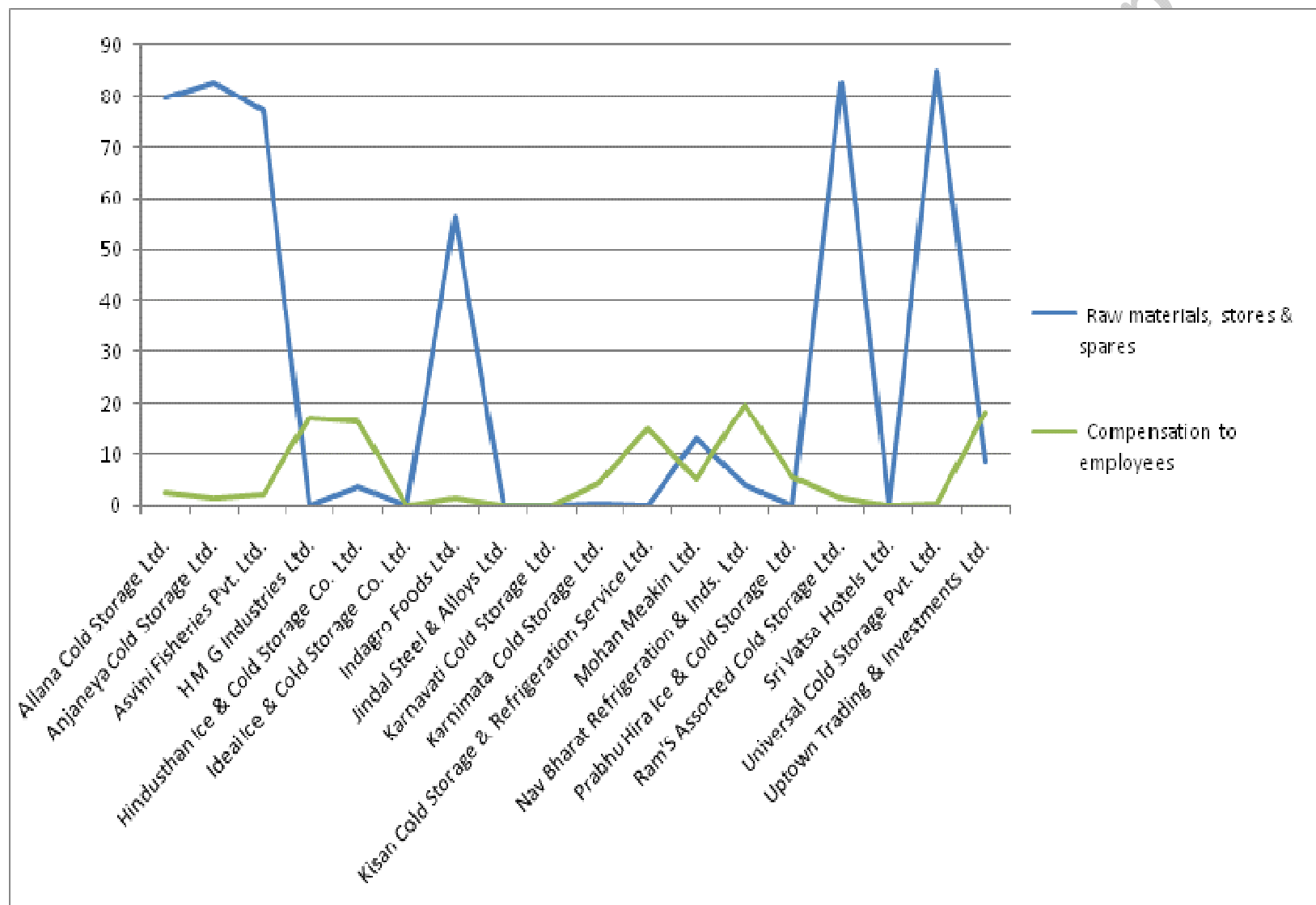


Cash Flow

		Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million
Company Name	ym(fina nce_yea r)	cf_net_fr m_op_ac tivity	cf_gener ated_frm _op	cf_before _extra_or di_items	net_cf_i nvesting _activiti es	net_cas h_flow	cash_flo w_openi ng_bal	cash_flo w_closi ng_bal	net_cf_fi n_activiti es
Allana Cold Storage Ltd.	201203								
Anjaneya Cold Storage Ltd.	201203		0			0			
Asvini Fisheries Pvt. Ltd.	200903								
H M G Industries Ltd.	201303		0			0			
Hindusthan Ice & Cold Storage Co. Ltd.	201003								
Ideal Ice & Cold Storage Co. Ltd.	201403	-0.1	-0.1	-0.1		-0.1	0.3	0.2	
Indagro Foods Ltd.	201003	253.3	504	253.3	-33.4	219.9	74.6	294.5	
Jindal Steel & Alloys Ltd.	201003	135.5	139.6	135.5	-128	7.5	0.8	8.3	
Karnavati Cold Storage Ltd.	200403								
Karnimata Cold Storage Ltd.	201309	12.2	12.2	12.2	-9.6	-8.7	9.4	0.7	-11.3
Kisan Cold Storage & Refrigeration Service Ltd.	201203								
Mohan Meakin Ltd.	201303	-137	-109.1	-137	214.5	30.6	53.2	83.8	-46.9
Nav Bharat Refrigeration & Inds. Ltd.	201303	0.3	2.1	0.3	-0.8	-0.3	0.5	0.2	0.2
Prabhu Hira Ice & Cold Storage Ltd.	199703								
Ram'S Assorted Cold Storage Ltd.	201003								
Sri Vatsa Hotels Ltd.	201203								
Universal Cold Storage Pvt. Ltd.	200503	-11.4	-11.4	-11.4	-0.1	0.7	4.2	4.9	12.2
Uptown Trading & Investments Ltd.	201003								

Cost as % Ge of Sales

Company Name	ym(financ e_year)	Raw materials, stores & spares	Raw material expenses	Stores, spares, tools consumed	Power, fuel & water charges	Compens ation to employe es	Excise duty	Advertisi ng expenses	Marketin g expenses	Distribu tion expense s
Allana Cold Storage Ltd.	201203	79.7	79.7	0	1.95	2.79	0	0	0.01	0.2
Anjaneya Cold Storage Ltd.	201203	82.67	82.67	0	0.5	1.35	0	0	0	0.19
Asvini Fisheries Pvt. Ltd.	200903	76.96	75.83	1.13	1.51	2.25	0	0	0.27	5.1
H M G Industries Ltd.	201303	0	0	0	31.14	17.03	0	0	0	3.89
Hindusthan Ice & Cold Storage Co. Ltd.	201003	3.6	1.2	2.4	44.94	16.3	0	0.17	0.51	0.69
Ideal Ice & Cold Storage Co. Ltd.	201403	0	0	0	0	0	0	0	0	0
Indagro Foods Ltd.	201003	56.18	56.18	0	1.81	1.37	0	0	0.27	1.42
Jindal Steel & Alloys Ltd.	201003	0	0	0	0	0	0	0	0	0
Karnavati Cold Storage Ltd.	200403	0	0	0	0	0	0	0	0	0
Karnimata Cold Storage Ltd.	201309	0.51	0	0.51	20.41	4.59	0	0	0.51	0
Kisan Cold Storage & Refrigeration Service Ltd.	201203	0	0	0	80	15	0	0	0	5
Mohan Meakin Ltd.	201303	12.92	12.43	0.49	7.14	5.18	22.81	0.15	1.16	1.35
Nav Bharat Refrigeration & Inds. Ltd.	201303	4.23	1.88	2.35	38.5	19.72	0	0.47	0	0
Prabhu Hira Ice & Cold Storage Ltd.	199703	0	0	0	13.25	5.56	0	0.43	0.85	5.13
Ram'S Assorted Cold Storage Ltd.	201003	82.72	82.45	0.28	0.96	1.52	0	0	0.65	4.3
Sri Vatsa Hotels Ltd.	201203	0	0	0	0	0	0	0	0	0
Universal Cold Storage Pvt. Ltd.	200503	84.89	84.18	0.7	0.89	0.5	0	0	0	3.1
Uptown Trading & Investments Ltd.	201003	8.45	0	8.45	69.01	18.31	0	0	0	2.82



Forex Transaction

		Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million		
Company Name	ym(finan ce_year)	forex_ea rnings	export_ goods	export_s erv	forex_sp ending	import_r awmat	import_f g	import_ cap_go ods	(100*(ex port_ea rnings/ sales))	((imported_ rawmat/ rawmat_pu rchased)*10 0)
Allana Cold Storage Ltd.	201203								0	0
Anjaneya Cold Storage Ltd.	201203								0	0
Asvini Fisheries Pvt. Ltd.	200903	542.3	542.3		13.6				86.38	0
H M G Industries Ltd.	201303								0	0
Hindusthan Ice & Cold Storage Co. Ltd.	201003				1.8			1.8	0	0
Ideal Ice & Cold Storage Co. Ltd.	201403								0	0
Indagro Foods Ltd.	201003	2110	2110		52.7			3.6	29.98	0
Jindal Steel & Alloys Ltd.	201003								0	0
Karnavati Cold Storage Ltd.	200403								0	0
Karnimata Cold Storage Ltd.	201309								0	0
Kisan Cold Storage & Refrigeration Service Ltd.	201203								0	0
Mohan Meakin Ltd.	201303	72	72		6.5	3.9		0	1.34	1.17
Nav Bharat Refrigeration & Inds. Ltd.	201303				0.2				0	0
Prabhu Hira Ice & Cold Storage Ltd.	199703								0	0
Ram'S Assorted Cold Storage Ltd.	201003				259.6	259.6			0	0
Sri Vatsa	201203				5.2				0	0



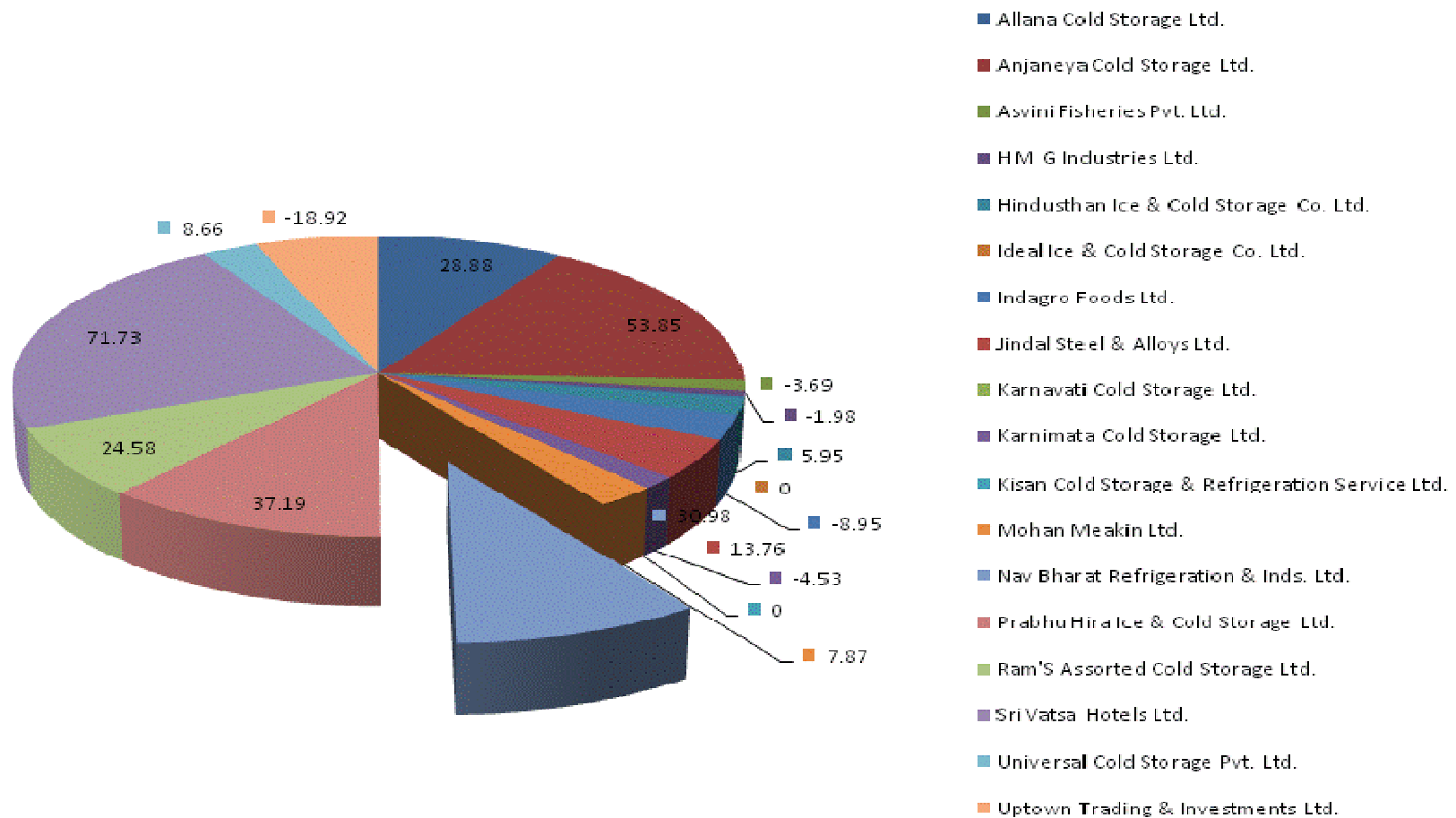
Hotels Ltd.										
Universal Cold Storage Pvt. Ltd.	200503	584.8	584.3	0.5					89.32	0
Uptown Trading & Investments Ltd.	201003								0	0

Data Intentionally Removed - Sample Report

Growth in Assets & Liabilities

	%		%	%	%	%	%	%	Rs. Million
Company Name	Gross fixed assets	Ym(finan ce_year)	Net fixed assets	Curren t assets	Total assets	Borrow ings	Total liabilities	Net worth	total_ass ets
Allana Cold Storage Ltd.	3.01	201203	-1.84	74.63	28.88		28.88	113.13	2007
Anjaneya Cold Storage Ltd.	20.94	201203	24.3	84.9	53.85		53.85	132.12	1412.8
Asvini Fisheries Pvt. Ltd.	2.18	200903	-1.07	-2.12	-3.69	-2.64	-3.69	96.09	729
H M G Industries Ltd.	1.84	201303	-4.52	39.39	-1.98	26.06	-1.98	62.5	118.7
Hindusthan Ice & Cold Storage Co. Ltd.	17.79	201003	26.34	42.45	5.95	-11.15	5.95	109.67	126.5
Ideal Ice & Cold Storage Co. Ltd.		201403		0	0	0	0	100.75	0.4
Indagro Foods Ltd.	2.38	201003	-7.23	-13.64	-8.95		-8.95	117.9	3136
Jindal Steel & Alloys Ltd.		201003		30.32	13.76		13.76	113.8	754.6
Karnavati Cold Storage Ltd.		200403						0	
Karnimata Cold Storage Ltd.	0	201309	-4.45	-47.52	-4.53	-8.45	-4.53	101.1	132.1
Kisan Cold Storage & Refrigeration Service Ltd.	0	201203	0		0	0	0	100	0.3
Mohan Meakin Ltd.	10.35	201303	22.59	9.14	7.87	7.9	7.87	111.3	2348.5
Nav Bharat Refrigeration & Inds. Ltd.	12.96	201303	21.36	-50	30.98	8.89	30.98	107.41	76.1
Prabhu Hira Ice & Cold Storage Ltd.	32.09	199703	32.41	17.91	37.19	74.76	37.19	116.13	87.8
Ram'S Assorted Cold Storage Ltd.	8.67	201003	4.84	50.92	24.58	180.39	24.58	132.51	139.9
Sri Vatsa Hotels Ltd.	83.33	201203	66.67	400	71.73	118.76	71.73	69.06	378.5
Universal Cold Storage Pvt. Ltd.	0.18	200503	-12.66	20.58	8.66	19.29	8.66	102.32	252.3
Uptown Trading & Investments Ltd.	0.55	201003	-10.53	125	-18.92	-13.43	-18.92	-300	6

Total assets



Growth in Income & Expenditure

		%	%	%	%	%	%	Rs. Million
Company Name	ym(finance_year)	Sales	Raw materials, stores & spares	Compensation to employees	Selling & distribution expenses	PBDITA	Profit after tax	total_assets
Allana Cold Storage Ltd.	201203	49.95	57.43	36.22	-33.91	122.17	130.57	2007
Anjaneya Cold Storage Ltd.	201203	173.26	167.78	32.48	203.85	348.4	375.79	1412.8
Asvini Fisheries Pvt. Ltd.	200903	-16.04	-8.65	2.94	-0.89	34.07		729
H M G Industries Ltd.	201303	15.77		-15.66	100	98.36		118.7
Hindusthan Ice & Cold Storage Co. Ltd.	201003	23.26	0	-7.77	33.33	71.64		126.5
Ideal Ice & Cold Storage Co. Ltd.	201403							0.4
Indagro Foods Ltd.	201003	-9.74	6.45	71.59	-23.15	-15.9	-13.08	3136
Jindal Steel & Alloys Ltd.	201003	-30.51				-39.41	-44.75	754.6
Karnavati Cold Storage Ltd.	200403							
Karnimata Cold Storage Ltd.	201309	10.43	-75	26.56	300	-3.52	1011.11	132.1
Kisan Cold Storage & Refrigeration Service Ltd.	201203	11.11		0	0			0.3
Mohan Meakin Ltd.	201303	11.65	-1.64	-4.29	-8.65	645.45		2348.5
Nav Bharat Refrigeration & Inds. Ltd.	201303	9.23	-10	16.67	0	30.91	33.33	76.1
Prabhu Hira Ice & Cold Storage Ltd.	199703	36.84		30	7.14	88.06	16.67	87.8
Ram'S Assorted Cold Storage Ltd.	201003	105.83	119.92	81.48	48.15	35.71	37.5	139.9
Sri Vatsa Hotels Ltd.	201203							378.5
Universal Cold Storage Pvt. Ltd.	200503	-30.41	-30.87	-17.07	-33.44	-19.82	-9.09	252.3
Uptown Trading & Investments Ltd.	201003	-32.38	50	44.44	-75			6

Income & Expenditure

		Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million	Rs. Million
Company Name	ym(finan ce_year)	sales	oth_inc	chg_in_ stk	rawmat_ stores _spares	prior_p eriod_e xtra_or di_inc	power_ fuel_w ater_ch arges	salaries _bonus _pf	selling_ distribut ion_exp	interest _exp	deprecia tion
Allana Cold Storage Ltd.	201203	3579.5	0.4	136.4	2961.5	0.4	72.3	103.8	7.6		11.2
Anjaneya Cold Storage Ltd.	201203	4176		65.3	3506.3		21	56.3	7.9		3.9
Asvini Fisheries Pvt. Ltd.	200903	627.8		-5.9	478.6	0.1	9.4	13.5	33.4	12.8	5.9
H M G Industries Ltd.	201303	41.1				2.4	12.8	6.5	1.6		12
Hindusthan Ice & Cold Storage Co. Ltd.	201003	58.3			2.1		26.2	9.1	0.8	2.8	4.6
Ideal Ice & Cold Storage Co. Ltd.	201403										
Indagro Foods Ltd.	201003	7037	2.8	-250.6	3812.5	0.1	122.7	89	114.5		78.9
Jindal Steel & Alloys Ltd.	201003	102.5				0.3					
Karnavati Cold Storage Ltd.	200403										
Karnimata Cold Storage Ltd.	201309	18.6		1	0.1	0.9	4	0.9	0.1	5.7	2.1
Kisan Cold Storage & Refrigeration Service Ltd.	201203	2	0.2				1.6	0.3	0.1		
Mohan Meakin Ltd.	201303	5357.7	17	30.1	696.3	278.8	384.5	241.7	143.6	104.3	40.8
Nav Bharat Refrigeration & Inds. Ltd.	201303	21.3			0.9		8.2	3.8	0.1	0.2	1.4
Prabhu Hira Ice & Cold Storage Ltd.	199703	23.4	0.7				3.1	1.1	1.5	0.8	2.3
Ram'S Assorted Cold Storage Ltd.	201003	300.1		22.9	267.2		3.1	4.5	16	2.9	3.1
Sri Vatsa Hotels Ltd.	201203										0.1
Universal Cold Storage Pvt. Ltd.	200503	654.7	2.7	26.9	578.6		6.1	2.8	21.1	10.9	3
Uptown Trading & Investments Ltd.	201003	7.1			0.6		4.9	1.2	0.2	0.2	0.5

Liabilities

			Rs. Million	Rs. Million	Rs. Million			Rs. Million	Rs. Million	Rs. Million
Company Name	finance_year	ym(financ e_year)	Net worth	Reserve s and funds	Borrowin gs	Sec_bor rowings	Unsec_b orrowing s	curr_lia b_n_pro v	total_lia bilities	sundry_c reditors
Allana Cold Storage Ltd.	3/31/2012	201203	1704	1699				278.5	2007	250.4
Anjaneya Cold Storage Ltd.	3/31/2012	201203	1190.8	1189.8				213.6	1412.8	196.8
Asvini Fisheries Pvt. Ltd.	3/31/2009	200903	460.1	431.4	107	107		139.5	729	31.3
H M G Industries Ltd.	3/31/2013	201303	0.5	-49.5	38.7		38.7	39.2	118.7	8.9
Hindusthan Ice & Cold Storage Co. Ltd.	3/31/2010	201003	66.9	43.5	23.9	16.6	7.3	16.1	126.5	9.3
Ideal Ice & Cold Storage Co. Ltd.	3/31/2014	201403	-13.4	-17.4	13.2	0.7	12.5	0.1	0.4	
Indagro Foods Ltd.	3/31/2010	201003	2859.2	2847				237.3	3136	141
Jindal Steel & Alloys Ltd.	3/31/2010	201003	750.3	680.1				4.3	754.6	
Karnavati Cold Storage Ltd.	3/31/2004	200403								
Karnimata Cold Storage Ltd.	9/30/2013	201309	36.9	1.2	93.1	84.3	8.8	2.1	132.1	0
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2012	201203	-0.6	-1.8	0.3		0.3	0.5	0.3	
Mohan Meakin Ltd.	3/31/2013	201303	384.2	341.7	823.8	663.6	108.6	1120.2	2348.5	734.6
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2013	201303	52.2	50.2	4.9	4.9		17.8	76.1	
Prabhu Hira Ice & Cold Storage Ltd.	3/31/1997	199703	10.8	23.7	54	46.6	7.4	2.6	87.8	
Ram'S Assorted Cold Storage Ltd.	3/31/2010	201003	75	78.7	14.3	14.3		6.1	139.9	
Sri Vatsa Hotels Ltd.	3/31/2012	201203	44.2	-0.3	285.7		285.7	13.1	378.5	12.8
Universal Cold Storage Pvt. Ltd.	3/31/2005	200503	88.1	82.6	143.5	142.1	1.4	20.7	252.3	18.3
Uptown Trading & Investments Ltd.	3/31/2010	201003	-0.9	-2.9	5.8	5.7	0.1	1.1	6	1.1

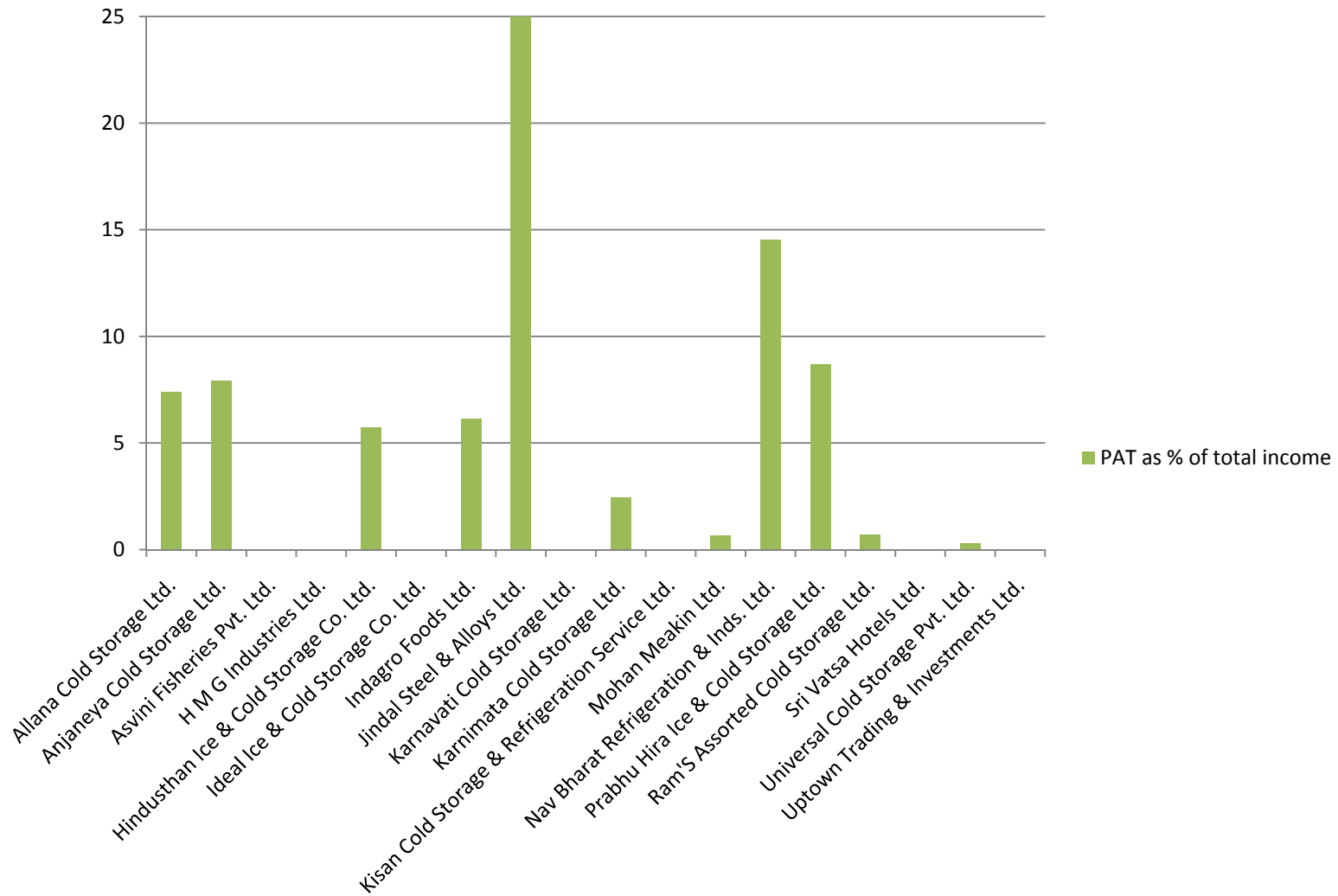
Liquidity Ratios

							Rs. Million
Company Name	Cash to current liabilities (times)	Quick ratio (times)	Current ratio (times)	Debt to equity ratio (times)	Interest cover (times)	Interest incidence (%)	total_assets
Allana Cold Storage Ltd.	0.27	3.2	3.7	0	4018		2007
Anjaneya Cold Storage Ltd.	0.22	4.88	5.04	0		0	1412.8
Asvini Fisheries Pvt. Ltd.	0.28	0.35	1.4	0.23	-0.64	11.8	729
H M G Industries Ltd.	0.08	0.13	0.13	158		0	118.7
Hindusthan Ice & Cold Storage Co. Ltd.	0.02	1.33	1.35	0.36	2.46	11.02	126.5
Ideal Ice & Cold Storage Co. Ltd.	2	2	2	0		0	0.4
Indagro Foods Ltd.	1.27	5.42	7.14	0		0	3136
Jindal Steel & Alloys Ltd.	1.93	11.4	11.4	0		0	754.6
Karnavati Cold Storage Ltd.				0		0	
Karnimata Cold Storage Ltd.	0.15	0.29	0.52	2.52	0.93	5.99	132.1
Kisan Cold Storage & Refrigeration Service Ltd.	0	0	0	0		0	0.3
Mohan Meakin Ltd.	0.05	0.67	1.05	2.14	-0.84	13.58	2348.5
Nav Bharat Refrigeration & Inds. Ltd.	0.01	0.02	0.01	0.09	28.5	4.26	76.1
Prabhu Hira Ice & Cold Storage Ltd.	0.05	0.25	0.25	5	4	1.88	87.8
Ram'S Assorted Cold Storage Ltd.	0.05	1.4	3.41	0.19	1.97	29.9	139.9
Sri Vatsa Hotels Ltd.	0.76	0.76	0.88	6.46		0	378.5
Universal Cold Storage Pvt. Ltd.	0.03	0.16	1.12	1.63	1.36	8.26	252.3
Uptown Trading & Investments Ltd.	1.45	1.64	1.64	0	-7.5	3.2	6

Profitability Ratio

		%	%	%	%	%	%	%	%	%
Company Name	finance_year	PBDITA as % of total income	PBT as % of total income	PAT as % of total income	PBDITA net of P&E as % of Total Inc net of P&E	PBT net of P&E as % of Total Inc net of P&E	PAT net of P&E as % of Total Inc net of P&E	PBDITA net of PE&OI as % Sales	PBT net of PE&OI as % Sales	PAT net of PE&OI as % Sales
Allana Cold Storage Ltd.	3/31/2012	11.67	11.23	7.39	11.62	11.17	7.34	11.62	400	262.6
Anjaneya Cold Storage Ltd.	3/31/2012	12.07	11.97	7.91	12.05	11.95	7.88	12.05	499.1	329.2
Asvini Fisheries Pvt. Ltd.	3/31/2009	6.7	-3.29	-2.95	5.67	-4.43	-4.08	5.67	-27.8	-25.6
H M G Industries Ltd.	3/31/2013	27.56	-0.68	-0.68	22.63	-7.54	-7.54	22.63	-3.1	-3.1
Hindusthan Ice & Cold Storage Co. Ltd.	3/31/2010	19.43	6.93	5.74	18.18	5.49	4.29	18.18	3.2	2.5
Ideal Ice & Cold Storage Co. Ltd.	3/31/2014								-0.1	-0.1
Indagro Foods Ltd.	3/31/2010	10.67	9.55	6.16	10.55	9.43	6.03	10.55	663.5	424.6
Jindal Steel & Alloys Ltd.	3/31/2010	99.91	99.91	82.95	99.9	99.9	81.76	99.9	102.4	83.8
Karnavati Cold Storage Ltd.	3/31/2004	0	0	0	0	0	0	0		
Karnimata Cold Storage Ltd.	9/30/2013	40.89	2.46	2.46	35.48	-6.45	-6.45	35.48	-1.2	-1.2
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2012	0	0	0	-10	-10	-10	-10	-0.2	-0.2
Mohan Meakin Ltd.	3/31/2013	4.64	1.4	0.69	-0.68	-4.09	-4.85	-0.68	-219.3	-259.6
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2013	29.03	22.18	14.52	17.37	9.39	0.47	17.37	2	0.1
Prabhu Hira Ice & Cold Storage Ltd.	3/31/1997	52.28	9.96	8.71	50.85	7.26	5.98	50.85	1.7	1.4
Ram'S Assorted Cold Storage Ltd.	3/31/2010	3.17	0.93	0.73	3.17	0.93	0.73	3.17	2.8	2.2
Sri Vatsa Hotels Ltd.	3/31/2012								-0.1	-0.1
Universal Cold Storage Pvt. Ltd.	3/31/2005	2.71	0.59	0.3	2.25	0.12	-0.17	2.25	0.8	-1.1
Uptown Trading & Investments Ltd.	3/31/2010	-11.54	-21.79	-15.38	-22.54	-33.8	-26.76	-22.54	-2.4	-1.9

PAT as % of total income



Profits

Company Name	finance_year	PBDITA	PBT	PBDITA net of P&E	PBT net of P&E	PAT net of P&E
Allana Cold Storage Ltd.	3/31/2012	417.9	402.1	417.5	401.7	264.3
Anjaneya Cold Storage Ltd.	3/31/2012	504	500.1	504	500.1	330.2
Asvini Fisheries Pvt. Ltd.	3/31/2009	42.5	-20.9	42.4	-21	-18.8
H M G Industries Ltd.	3/31/2013	12.1	-0.3	9.7	-2.7	-2.7
Hindusthan Ice & Cold Storage Co. Ltd.	3/31/2010	11.5	4.1	11.5	4.1	3.4
Ideal Ice & Cold Storage Co. Ltd.	3/31/2014	-0.1	-0.1	-0.1	-0.1	-0.1
Indagro Foods Ltd.	3/31/2010	751.9	673	752	673.1	434.2
Jindal Steel & Alloys Ltd.	3/31/2010	109.6	109.6	109.3	109.3	90.7
Karnavati Cold Storage Ltd.	3/31/2004					
Karnimata Cold Storage Ltd.	9/30/2013	8.3	0.5	7.4	-0.4	-0.4
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2012	0	0	0	0	0
Mohan Meakin Ltd.	3/31/2013	262.4	79.3	-15	-198.1	-238.4
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2013	7.2	5.5	7.2	5.5	3.6
Prabhu Hira Ice & Cold Storage Ltd.	3/31/1997	12.6	2.4	12.6	2.4	2.1
Ram'S Assorted Cold Storage Ltd.	3/31/2010	9.5	2.8	9.5	2.8	2.2
Sri Vatsa Hotels Ltd.	3/31/2012	-0.1	-0.2	0	-0.1	-0.1
Universal Cold Storage Pvt. Ltd.	3/31/2005	17.8	3.9	17.8	3.9	2
Uptown Trading & Investments Ltd.	3/31/2010	-0.9	-1.7	-0.9	-1.7	-1.2

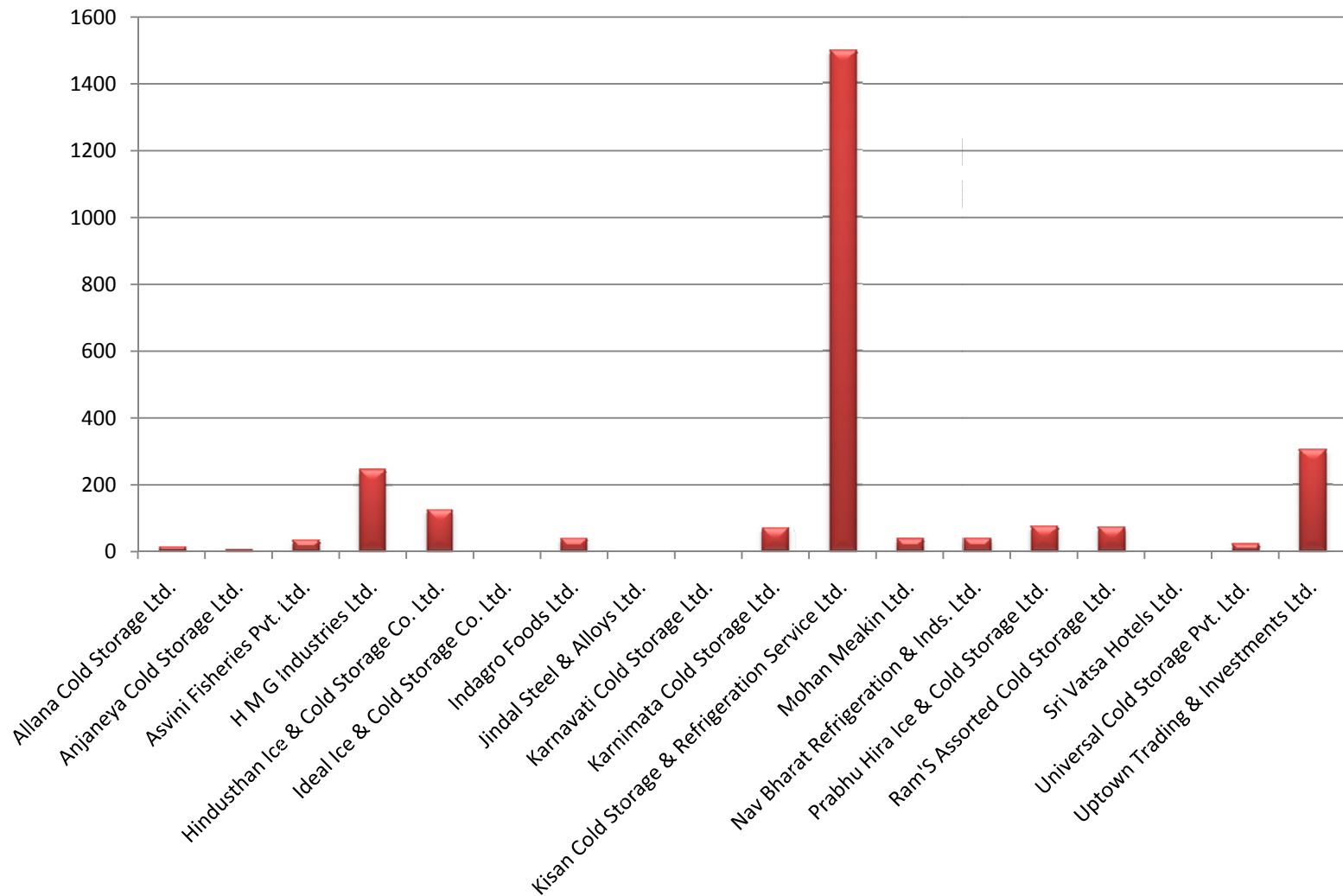
Return Ratios

Company Name	finance_year	PAT net of P&E as % of net worth	PAT as % of net worth	PAT net of P&E as % of capital employed	PAT as % of capital employed	PAT net of P&E as % of total assets excl reval	PAT as % of total assets excl reval	PAT net of P&E as % of GFA excl reval	PAT as % of GFA excl reval
Allana Cold Storage Ltd.	3/31/2012	16.47	16.49	16.47	16.49	14.83	14.85	95.48	95.63
Anjaneya Cold Storage Ltd.	3/31/2012	31.57	31.57	31.57	31.57	28.33	28.33	414.56	414.56
Asvini Fisheries Pvt. Ltd.	3/31/2009	-4	-3.98	-3.25	-3.24	-2.6	-2.59	-8.31	-8.26
H M G Industries Ltd.	3/31/2013	-415.38	46.15	-3.57	-0.4	-2.25	-0.25	-0.93	-0.1
Hindusthan Ice & Cold Storage Co. Ltd.	3/31/2010	5.32	5.32	3.81	3.81	3.29	3.29	2.63	2.63
Ideal Ice & Cold Storage Co. Ltd.	3/31/2014	0	0	-28.57	-28.57	-25	-25		
Indagro Foods Ltd.	3/31/2010	16.43	16.43	16.43	16.43	13.2	13.19	34.12	34.12
Jindal Steel & Alloys Ltd.	3/31/2010	12.87	12.91	12.87	12.91	12.79	12.84		
Karnavati Cold Storage Ltd.	3/31/2004	0	0	0	0	0	0	0	0
Karnimata Cold Storage Ltd.	9/30/2013	-1.09	1.36	-0.3	0.38	-0.3	0.37	-0.43	0.54
Kisan Cold Storage & Refrigeration Service Ltd.	3/31/2012	0	0	0	0	0	0	0	0
Mohan Meakin Ltd.	3/31/2013	-65.37	10.69	-20.58	3.37	-10.54	1.72	-27.21	4.45
Nav Bharat Refrigeration & Inds. Ltd.	3/31/2013	7.14	7.14	6.53	6.53	5.37	5.37	12.52	12.52
Prabhu Hira Ice & Cold Storage Ltd.	3/31/1997	20.9	20.9	4	4	3.79	3.79	5.42	5.42
Ram'S Assorted Cold Storage Ltd.	3/31/2010	3.34	3.34	2.91	2.91	2.72	2.72	4.11	4.11
Sri Vatsa Hotels Ltd.	3/31/2012	-0.18	-0.37	-0.04	-0.08	-0.04	-0.07	-11.76	-23.53
Universal Cold Storage Pvt. Ltd.	3/31/2005	2.3	2.3	0.91	0.91	0.83	0.83	3.52	3.52
Uptown Trading & Investments Ltd.	3/31/2010	0	0	-20.17	-20.17	-17.91	-17.91	-6.58	-6.58

Structure of Assets & Liabilities (%)

		%	%	%	%	%	%
Company Name	ym(finance_year)	gross_fixed_assets/ total_assets *100	Net Fixed Assets	Current Assets	Net Worth	Reserve & Surplus	Total Borrowings
Allana Cold Storage Ltd.	201203	14	7.44	51.31	84.9	84.65	0
Anjaneya Cold Storage Ltd.	201203	6.17	4.09	76.18	84.29	84.22	0
Asvini Fisheries Pvt. Ltd.	200903	34.14	16.53	45.06	63.11	59.18	14.68
H M G Industries Ltd.	201303	247.35	76.58	3.88	0.42	-41.7	32.6
Hindusthan Ice & Cold Storage Co. Ltd.	201003	127.19	74.31	11.94	52.89	34.39	18.89
Ideal Ice & Cold Storage Co. Ltd.	201403	0	0	50	-3350	-4350	3300
Indagro Foods Ltd.	201003	41.05	19.85	53.99	91.17	90.78	0
Jindal Steel & Alloys Ltd.	201003	0	0	6.49	99.43	90.13	0
Karnavati Cold Storage Ltd.	200403	0	0	0	0	0	0
Karnimata Cold Storage Ltd.	201309	70.55	65.71	13.93	27.93	0.91	70.48
Kisan Cold Storage & Refrigeration Service Ltd.	201203	1500	100	0	-200	-600	100
Mohan Meakin Ltd.	201303	39.14	12.27	70.16	16.36	14.55	35.08
Nav Bharat Refrigeration & Inds. Ltd.	201303	40.08	16.43	0.39	68.59	65.97	6.44
Prabhu Hira Ice & Cold Storage Ltd.	199703	76.88	65.15	9	12.3	26.99	61.5
Ram'S Assorted Cold Storage Ltd.	201003	73.48	49.54	47.03	53.61	56.25	10.22
Sri Vatsa Hotels Ltd.	201203	0.29	0.26	3.04	11.68	-0.08	75.48
Universal Cold Storage Pvt. Ltd.	200503	22.51	8.2	72.69	34.92	32.74	56.88
Uptown Trading & Investments Ltd.	201003	305	56.67	30	-15	-48.33	96.67

gross_fixed_assets/ total_assets*100



Working Capital & Turnover Ratios

Company Name	Ym(financ e_year)	Raw material cycle	WIP cycle	Finished goods cycle	Debtor s	Gross working capital cycle	Creditor s	Raw material turnover	Debtors turnover	Creditors turnover
Allana Cold Storage Ltd.	201203	1.9	0.27	9.12	66.21	77.51	15.27	191.68	5.51	25.3
Anjaneya Cold Storage Ltd.	201203	0.19	0	4.36	64.79	69.34	9.82	1895.3	5.63	35.88
Asvini Fisheries Pvt. Ltd.	200903	5.45	0	163.72	8.78	177.95	27.8	319.07	41.58	18.07
H M G Industries Ltd.	201303	0	0	0	15.54	15.54	506.75	0	23.49	1.98
Hindusthan Ice & Cold Storage Co. Ltd.	201003	52.14	0	0	77.01	129.15	107.13	7	4.74	4.4
Ideal Ice & Cold Storage Co. Ltd.	201403		0	0			182.5	0	0	0
Indagro Foods Ltd.	201003	5.21	0	29.41	56.96	91.58	35	199.09	6.41	10.89
Jindal Steel & Alloys Ltd.	201003		0	0	137.99		15147.5	0	2.65	0
Karnavati Cold Storage Ltd.	200403		0	0				0	0	0
Karnimata Cold Storage Ltd.	201309	3285	0	244.84	60.83	3590.67	47.73	0.11	6	
Kisan Cold Storage & Refrigeration Service Ltd.	201203		0	0	0		66.36	0		
Mohan Meakin Ltd.	201303	62.18	5.17	35.73	65.51	168.59	69.41	3.89	5.57	5.7
Nav Bharat Refrigeration & Inds. Ltd.	201303	0	0	0	0	0	170.06			
Prabhu Hira Ice & Cold Storage Ltd.	199703		0	0	98.27		69.83	0	3.71	
Ram'S Assorted Cold Storage Ltd.	201003	0.87	0	35.56	20.8	57.22	4.54	5344	17.55	
Sri Vatsa Hotels Ltd.	201203		0	0			0	0	0	0
Universal Cold Storage Pvt. Ltd.	200503	3.68	0	86.19	11.62	101.49	11.93	680.71	31.4	27.28
Uptown Trading & Investments Ltd.	201003	0	0	0	0	0	29.37			9.86

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Ltd.									
Sri Vatsa Hotels Ltd.									
Universal Cold Storage Pvt. Ltd.									
Uptown Trading & Investments Ltd.									

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Cold Storage Classification

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Selection of Location for the Cold Storage

Selection of location for the cold storage is a very important task. So, this should be done very carefully.

Steps to Design a Robust Cold Storage

Fruits & Vegetables **Concept & Design:**



Technical Specifications for Cold Storage

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S.N.	DESCRIPTION	SPECIFICATION
1.	COLD STORE ROOMS (for Potatoes) capacity 3000MT	25' x100' x12'H, 12 Rooms, 6rooms each in two rows, joined together with common walls of 100'Length. Overall size 100' x150' x 2set.
2.	Walls & Ceiling specifications	Shall consist of Polyurethane insulated 80 mm thick PUF panels of PUF Density 40 ± 2 kg/m ³ . The individual panels firmly lock with each other by Cam Locks. The cladding material shall be PRECOATED G.I Sheets both sides. Roof panels shall have necessary reinforcements.
3.	Special Cold Room Doors =12nos.	3'w x 6.5'H, Made out of 80 mm thick PUF Insulated Panels, complete with all TOP QUALITY accessories likes Locks & Hinges, Gasket magnet strips, safety release system, etc.
4.	Floor Insulation.	Made out of 80 mm thick PUF slab of PUF Density 40 ± 2 kg/m ³ on Cold room for floor area, complete with TARFELT sheet As vapor barrier. (PCC + Kota Stone will be in customer scope)
5.	Joining accessories	Consisting of PPGI sheet flashings for base channel, inner, outer angles, Rivets, nuts, bolts, screws etc.
6.	Room Temperature	4 (+/-2) Deg C.
7.	Ambient Temperature	Normal
8.	Product Entry Temp.	Room temperature
9.	Refri geration System	FREON BASED- With EMERSON-COPELAND/ equivalent make compressor 54000 BTU/hr (7.5Ton nominal)capacity 24 set (2set per chamber), AIR COOLED, SPLIT TYPE, Complete with all necessary parts, accessories for system, INDOOR UNITS of suitable capacity. Complete with piping, wiring system on close hook up system up to 20 rft per set. Extra piping @1200/- per foot.
Note- These are self standing chambers. You have to provide Cemented & leveled floor & electricity connection of 240KVA, 3phase, 50HZ, AC.		
10.	Secondary Roofing	With Hi-Rib profiled PPGI sheets & Support structure 105 x155' x 2set.



General Recommendations about Pre-cooling

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Critical Storage condition and Grouping of Products

Pre-cooling-

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ii. Quality of produce

iii. Commodity Storage Conditions-

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Legislation and GMP for the Cold Storage

Legislation and good manufacturing practices (GMP) within the cold chain are designed to ensure effective control of safety and quality.

Usually two types of refrigerants are used in the condenser:

- Freon Refrigerant.
- Ammonia Refrigerant.

Temperature Control

For the temperature controls of cold storage, the machines are controlled with the automatic control the liquid refrigerant is controlled in the coil. An expansion valve can also be used to control the flow of refrigerant. This valve is an automatic one & results in a heater control.

Storage Conditions

There are two popular refrigerants in the market present one is Freon and other is Ammonia. Ammonia and Freon compressors are being manufactured indigenously.

Optimum storage conditions for fruits				
Sr No.	Item	Temp. ⁰ F	Cold storage life in weeks	Remarks
1				
2				
3				
4				
5				
6				
7				
Optimum storage conditions for vegetables				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				



Cold Room Accessories

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General Accessories

Panel Accessories:

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Doors and Accessories

Refrigeration Accessories and Spare Parts



Any other specific accessories requirement

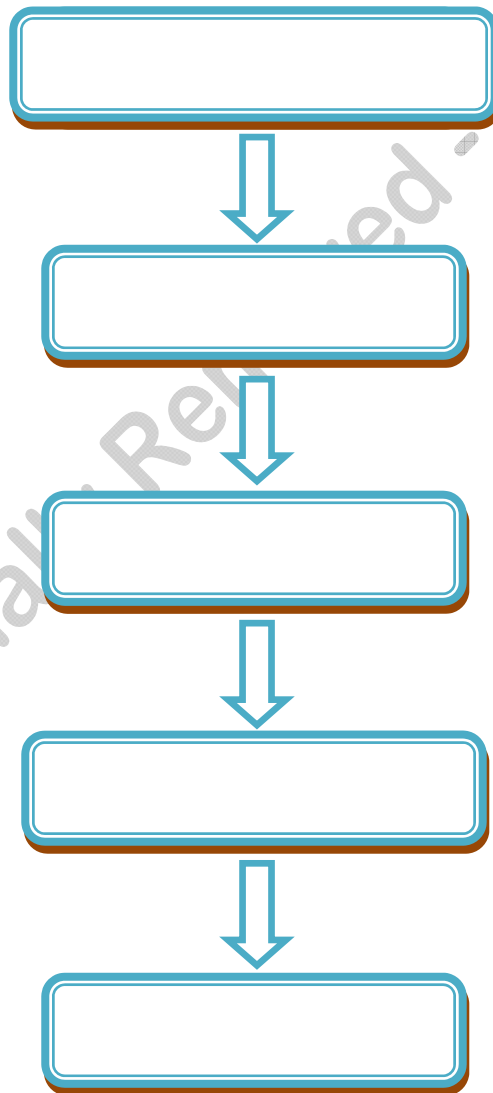


Other features include:

- Durable hardware and attractive hinges and handles built for years of trouble-free usage.
- Interior glow in the dark safety release handle to prevent entrapment inside cold storage.
- Doorframe heater wire.

Optional accessories include:

Flow Diagram





Design Section of Cold Storage

Refrigeration System

Two types of refrigeration systems are used depending on product type and cold storage area.

a. Ammonia Based System

b. Freon Based System

Racking

Cooling Coils

The selection of the correct cooling coil for any storage application is one of the main factors that will influence the relative humidity of the storage environment produced. Where high humidities are required it is important to size the cooling coil for the smallest practical TD.



Hydro Cooling

Hydro cooling is an effective method of quickly removing field heat. Cooling times are comparable with those achieved by vacuum cooling.

Refrigeration System & Equipment Selection

Vapour Compression systems are commonly used. However, absorption systems can also be used for cold storages, where heat is readily available instead of electricity e.g. solar, geothermal, waste heat etc.

Refrigerant issues-eco-friendly, safety, energy efficiency.

•**Type of system**-direct expansion (in case of HFC and others), liquid over feed and gravity with as urge drum in case of ammonia



Compressor

Compressor-reciprocating/screw with capacity control

Condenser

Condenser- atmospheric, evaporative, water cooled



Cooling Coils

Cooling Coils -ceiling/wall mounted

Air Handlers

Air handlers for ultra-high humidity forced air pre-cooling



Humidification System

- De-Humidification system**

- Commodity Generated Modified Atmosphere**

- Capacity control of fans**

- Testing and charging the system**



•Air Purger (manual or automatic)

•Defrosting method ñ water/hot gas etc.

•Equipment de-rating at higher ambient

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General Specifications for Refrigeration System

Refrigeration Compressors & Motors

Evaporative Condenser for Ammonia

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Air Cooling Units

H.P. Receiver

Air cooled/water cooled condenser for HFC/HCFC

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Refrigerant Piping, fittings & Valves

Water Piping, Fittings & Valves

Water Pump sets

Thermal Insulation for refrigerant piping etc

Duct Mouth pieces



Ventilation for cold chambers

Humidification

Controls

Installation, Testing & Commissioning

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Quick Cooling Methods

Perishable crops like soft fruit and select vegetables benefit greatly from rapid removal of field heat. Several techniques are available by which produce can be rapidly cooled. Whichever method as cooling is adopted it is important to potential benefits of cooling are to be fully raised. The high speed cooler must be backed up by cooled storage facilities.

Forced Air Cooling

The rate at which heat can be transferred from produce to an air stream depends firstly on the temperature difference between the crop and the cooling air, and secondly on the speed at which the air passes over the crop.

Vacuum Cooling

An alternative method for the rapid removal of field heat from produce is the vacuum cooler.

Insulation

To limit the load on the refrigerating equipment, heat leakage into a store must be reduced to as low a level as is practicable. Insulating materials are incorporated in the store for this purpose, the method of application varying with the materials selected.

Board or Slab Insulation

These include plastics such as expanded polystyrenes and polyurethanes which, together with cork slab, are the most commonly used materials for lining the inside of store walls, ceilings and roofs.

Granular and Loose Fill Materials

These include re-granulated cork, mineral wool and pelleted polystyrene.



Framed 'in situ'

Chemical foams and other insulating materials can be introduced into cavities in a similar way to granular materials.

Sprayed-on Insulation

Urethane foams sprayed into walls, roofs and ceilings can be satisfactory but the application is a specialized one and particular care is needed in the choice of protective finishes.

Pre-Forced Panels

Factory produced panels utilizing one or more of the above insulates are increasingly used and are of many types.

Insulation Thickness

To determine the thickness of insulation required in any particular case, it is necessary to decide upon a theoretical U value for each element in the construction, that is, for the wall, ceiling and floor.

Structure

Stores may be built as individual, freestanding structures or within a new or existing building. There is no single preferred method of construction to be used in all circumstances.

Foundations

Foundation design is dependent upon the overall loading factors and the particular site conditions.

Floor

Apart from small, sectional stores with their own timber-framed floors, the usual specification is for a suitable concrete slab laid on polythene or other sheet type of water barrier over a layer of hard-core.

Walls

A distinction must be made between stores where the produce is held in containers and these where it is in bulk with the produce likely to exert a lateral pressure on the walls.

Roof

Sound construction and good workmanship are particularly important. In some cases a flat roof may be unavoidable but wherever possible it is preferable to construct stores with a pitched roof.

Ceilings

Where a flat ceiling is required, as in most CA stores, it is usually formed from timber joists spanning between chamber walls, trusses or special steel and timber beams.

Sectional Stores

Recent developments in the design of sectional stores for board cell for special consideration Prefabrication boxes produce fabrication of the various part of a store, followed by assembly on site is now a recognized alternative in traditional methods of construction.



Efficient Cold Storage Management

There are a few important steps to achieving effective and efficient cold storage management:

- **Clean and calibrate –**
- **Know your hot and cold spots –**
- **Pre-cool –**
- **Use humidifiers –**



- **Avoid air pollution –**

- **Rotate your product –**

- **Inspect the Quality of your product on arrival –**

- **Keep Score –**

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Electrical Installations & Safety

- PowerFactor-notlessthan0.95
- Transformer of minimum required capacity

Electrical Installation

i. Substation

ii. D.G. Set for standby power

iii. Main power distribution panel

iv. Electric panels

v. Power &Control cabling etc

vi. Lighting

Safety Measures

Provision for handling accidental leakage of ammonia	Ammonia sensors in cold chambers near ACU's & machine room Emergency ventilation for machine room Safety release of refrigerant to water sump Ammonia masks First aid kit Instructions for handling emergencies
Fire protection	Fire sensors in cold chambers & machine room. Dry & water based fire fighting systems as per specs below. Sprinklers for high pressure receivers
Emergency lighting system	May be solar PV cells with batteries & controller
Emergency alarm system	To be provided with switches near all cold store doors and alarms located in common public areas
Lightning arrestors for the building as per local regulations	

i. Fire Fighting

a. Dry Type

Fire fighting equipment necessary for extinguishing liquid, solid and electrical fire :	i) Dry chemical powder type 5.0 Kg Cap with ISI Mark Fire Extinguisher complete with wall mounting bracket. ii) Carbon Di-Oxide (CO₂) type 4.5 Kg. capacity Fire Extinguisher complete with wall mounting bracket. iii) G.I. Fire Buckets iv) M.S. Stand for Fire Buckets
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Energy Management and Conservation

In view of the increasing demand for energy and the escalating costs of energy from all sources, energy management and energy conservation are becoming increasingly important in all industries and obviously also in the food systems.

Even if a number of investigations have shown that freezing and frozen storage, as well as chilled storage, are less energy demanding than some other preservation methods used for foods, good energy management and energy conservation are important factors in the operation of cold stores.

Energy consumption obviously has to be regarded already at the planning and design stages of a cold store. Large savings can be made by careful selection and assembly of components. Choosing efficient evaporator fans with the correct mass air flow and air throw for the store dimensions and optimising the insulation thickness taking relevant location conditions into account can show considerable savings.

Thermal Insulation Practices

Thermal insulation is an extremely important component in a cold chain system. It performs two vital functions:

1. To minimize the flow of heat from the surrounding areas to the inside space
2. To minimize the flow of moisture from surrounding areas to cold chambers

Insulation Materials

In some old units, cheaper material, like rice husk, was once used as thermal insulation. Although the insulation itself was very cheap, it necessitated very large insulation thicknesses and also caused maintenance and hygiene problems. This method is almost extinct now.

Sandwich-insulated panel structure

The development of insulated panels has ushered in a revolution in the cold storage construction the world over. Although, these panels have been in use for cold storage construction for over four decades in the developed countries, in India, sandwich panels were introduced only about 25 years ago.

Insulating of Walls

It is very necessary to insulate the cold storage walls other side the heat from outside will come into the room which will result in extra expenditure into maintain the specified temperature. So it is desirable that both the sides of the walls should be insulated.

The following materials can be used for insulation: -

- Thermocole
- Thermofoam
- Thermolloyed
- Cellotherm
- Expanded Polystyrene.



Typical Layouts of Multi Commodity Cold Store Facilities

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OPTION-1:

Typical 5000 MT Multi Commodity Cold Store with provision of rapid room cooling and palletized storage, suitable for long/medium term storage of Fruit and vegetables.

OPTION-2: Typical Multi Commodity Cold Store with provision of separate pre-cooling room and high humidity cold stores.



Typical Configuration:

Construction Features:

The general convention of conventional construction is as follows:

Foundation:



Cold Chamber:

Cold Store Building:

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Walls:

Roof:

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Floor:

Ante Room:

Process Grading and Sorting Area:

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Grading & Sorting Line:

Pallet Jack & Fork Lift:

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Bins, Crates, Pallets and Racks:

Strip curtains for cold rooms and Air Curtains for external outlets/inlets:

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Dock:

Ancillaries:

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Suppliers of Plant & Machinery

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Complete Cold Storage Solution

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Cold Storage Equipments

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Refrigeration Unit

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Storage Tank

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Material Handling Equipments

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Insulation Material

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Electrical Wire, Cable & Switches

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Suppliers of Raw Material

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Ammonia Gas

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Gunny Bag

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Machinery & Equipment Photographs

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Fast Fold Door



Rollup Door



Bump Door



Impact Door



Pedestrian Impact Door



Pedestrian Door











Plant Layout

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Quotation of Plant, Machinery & Equipment from Suppliers

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PROJECT FINANCIALS

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Cold Storage

Annexure 1

Assumptions made

- 1 Interest cost for CC limit (WC finance) is @15.00%
- 2 Semi Variable & Fixed Expenses are done on 40:60 basis on full capacity utilisation in 5th Year of operation.
- 3 For working capital calculation, the WC cycle is considered by taking following assumptions are made:
 - a Stock on hand i.e. Raw material cost @ 1 month, Finished goods @ 1 months and WIP cost taken for 1 days.
 - b Receivables @0 months.
 - c Current liabilities @ 1 months.
- 4 Currency is (Amount in Rs.) and (Rs. in lacs) in some tables

Cold Storage

Annexure 2

0

PLANT ECONOMICS

Cold Storage

Capacity 5000 MT & 4 Cycle per Annum

Rated Plant Capacity			
Total Storage Capacity per Day	=		MT/Day
Total Storage Capacity per Month	=		MT/Month
Total Storage Capacity per Annum	=		MT/Annum
Basis			
No. of working days	=		days/month
	=		days/annum
No. of shifts	=		shifts per day
One shift	=		hours
Total working Hours per day			Hours per day

Prepared by “Niir Project Consultancy Services”

Cold Storage

Annexure 3

0

PRODUCTION SCHEDULE

Name of Product	MT per day	MT per annum	Total Batch	UOM
Cold Storage		2		
		2		

Cold Storage

Annexure 4

0

LAND & BUILDING

(Amount in Rs.)

Particulars of proposed Assets (UOM)	UOM	Quantity	Rate	Total
Land Area Required	Acre			
Factory Building -				
Cold Store Section	sq.mts.			
Raw Material Sorting & Grading Shed	sq.mts.			
Product Packing Shed	sq.mts.			
Maintenance Room	sq.mts.			
Refrigeration Room	sq.mts.			
Administrative Block	sq.mts.			
Toilet	sq.mts.			
Security Room	sq.mts.			

Cold Storage

Annexure 4

LAND & BUILDING

(Amount in Rs.)

Particulars of proposed Assets (UOM)	UOM	Quantity	Rate	Total
Land Development Cost, Boundary Wall, Gate & Road etc.				
			TOTAL	2

Cold Storage

Annexure 5

0

PLANT & MACHINERY

(Amount in Rs.)

Particulars of Assets proposed (UOM)	UOM	Quantity	Rate	Total
Indigenous Machineries				
5 Tr. Freon R-22, Refrigerant Base Refrigeration Unit	Nos.			
10 Tr. Freon R-22, Refrigerant Base Refrigeration Unit	Nos.			
12000 CFM Ceiling Mounted AHU with high Static Pressure for Antee Room cum Precooling Chamber	Nos.			
24 SWG G.I. Ducting for Precooling Chamber with grills & diffuser	Nos.			
PUF Panel for Complete Cold Room of 100 & 120 mm thickness with both size side PCGI sheet for Top & Side wall & PUF slab for bottom	Nos.			
Labour Charge for Insullaiton of the Same	Nos.			

Prepared by "Niir Project Consultancy Services"

Cold Storage

Annexure 5

PLANT & MACHINERY

(Amount in Rs.)

Particulars of Assets proposed (UOM)	UOM	Quantity	Rate	Total
Maintenance Equipments				
Erection & Installation				
Miscellaneous Exp.				
Laboratory & Testing Equipments				
			TOTAL	

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Cold Storage

Annexure 6

0

OTHER FIXED ASSETS

(Amount in Rs.)

Particulars of Assets proposed	Quantity	Rate	Amount
Furniture & Fixtures			
Office Equipment, Furniture plus Other Equipment & Accessories			
Pre-operative & Preliminary Expenses			
Electrical Installation 350 KVA			
Electrical Cable, MCB, Meter Boxes, Switch Board etc.			
Fire Fighting Equipment			
D.G. Set 350 KVA			
Water Resources (Bore Well) with Storage Tank			
Others			
Technical know how			
Office Vehicles			
Office Automation Equipments (Telephone/ Fax/ Computer)			
Provision for Contingencies			
		TOTAL	

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Cold Storage

Annexure 7

0

WORKING CAPITAL Requirement Per Month

Raw Materials	UOM	Quantity	Rate	Amount	Qty p.a.	Qty per Batch
Packing Materials Gunny Bags	Nos					
Maintenance Exp.						
Label & Stickers						
Lab & Other Chemicals Cost						
Consumable Store	Nos					
			TOTAL			

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Cold Storage

Annexure 8

0

Overheads required per month

(Amount in Rs.)

Utilities and Overheads	Quantity	Rate	Amount
Power Consumption			
Water Consumption			
Fuel Cost			
Insurance Professional fees			
Administration expense			
Stationery Exp., Telephone, Postage			
Repairs and Maintanance			
Internet Expenses			
Conveyance Exp.			
Publicity Exp.			
		TOTAL	

Total load is

240

Kwatts

Utilities and Overheads	Quantity	Rate	Amount
Royalty and other charges			
Selling and Distribution expenses			
		TOTAL	

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Cold Storage

Annexure 9

Salary and wages

(Amount in Rs.)

Salary and wages	UOM	Quantity	Rate	Amount
Manager	Nos.			
Accountant	Nos.			
Computer Operators	Nos.			
Shift Supervisors	Nos.			
Skilled Workers	Nos.			
Electricians	Nos.			
Fitters	Nos.			
Unskilled Workers	Nos.			
Office Staffs	Nos.			
Peons	Nos.			
Security Guards	Nos.			
TOTAL BASIC SALARY				
Plus Perks (20 % p.a. of Basis Salaries)				
Per month			TOTAL	
Per Annum				

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Cold Storage

Annexure 10

0

TURNOVER PER ANNUM

(Amount in Rs.)

Name Of Product	UOM	Quantity	Rate	Amount
Cold Storage	MT			
			TOTAL	

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Cold Storage

Annexure 11

0

SHARE CAPITAL

(Rs. in lacs)

Share Capital (No. of Shares)	Face Value Rs./ Share	Equity Share Capital		
Particulars	Existing	Existing	Proposed	Proposed
	%age		%age	
Equity Capital				
Preference Share Capital				
Total				

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Cold Storage

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ANNEXURE - 1

COST OF PROJECT AND MEANS OF FINANCE

(Rs. in lacs)

Particulars	Existing	Proposed	Total
COST OF PROJECT			
Land & Site Development Exp.			
Land Area Required			
Land Development Cost, Boundary Wall, Gate & Road etc.			
Buildings			
Factory Building -			
Office Buildings			
Plant & Machineries			
Indigenous Machineries			
Erection & Installation			
Laboratory & Testing Equipments			
Miscellaneous Exp.			
Imported Machineries			
Technical know how			
Office Vehicles			
Office Automation Equipments (Telephone/ Fax/ Computer)			
Office Equipment, Furniture plus Other Equipment & Accessories			
Other Misc. Assets			
Pre-operative & Preliminary Expenses			
Provision for Contingencies			
Total Capital Cost of Project			
Margin Money for Working Capital			
Total Cost of Project			
MEANS OF FINANCE			
Equity Share Capital			
Others - Preference Share Capital			
Total Equity Share Capital			
Long/Medium Term Borrowings			
FROM BANK			
From Other Financial Institutions			
Total Long/Medium Term Borrowings			
Total Means of Finance			

Cold Storage

ANNEXURE - 2

0.00

PROFITABILITY AND NET CASH ACCRUALS

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Revenue/Income/Realisation					
Gross Sales Realisation					
Less : Excise Duties/Levies					
Net Sales Realisation					
Total Revenue/Income/Realisation					
Expenses/Cost of Products/Services/Items					
Raw Material Cost					
Indigenous					
Total Nett Consumption					
Lab & ETP Chemical Cost					
Packing Material Cost					
Sub Total of Net Consumption					
Miscellaneous Cost					
Employees Expenses					
Fuel Expenses					
Power/Electricity Expenses					
Depreciation					
Royalty & Other Charges					
Repairs & Maintenance Exp.					
Other Mfg. Expenses					
Cost of Output of Goods Sold					

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ANNEXURE - 2

0.00

PROFITABILITY AND NET CASH ACCRUALS

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Gross Profit					
Administration Expenses					
Technical Knowhow Fees & Exp.					
Financial Charges					
Long/Medium Term Borrowing					
On Wkg. Capital Borrowings					
Total Financial Charges					
Selling Expenses					
Total Cost of Sales					
Net Profit Before Taxes					
Tax on Profit					
Net Profit After Taxes					
Depreciation Added Back					
Technical Knowhow Fees & Exp.					
Net Cash Accruals					

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Cold Storage

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ANNEXURE - 3

ASSESSMENT OF WORKING CAPITAL REQUIREMENTS

(Rs. in lacs)

Particulars	Stk.Prd.	Stk.Prd.		Operating Years				
	1st Year	2nd Yr&+		1-2	2-3	3-4	4-5	5-6
Capacity	Months	Months	%					
CURRENT ASSETS								
Stocks on Hand								
Raw Material Cost								
Indigenous			M					
Lab & ETP Chemical			M					
Packing Material			M					
Consumable Store			M					
Work-in-Process			D					
Finished Goods			M					
Current Expenses			M					
Receivables			M					
Total								
Cash/Bank Balances								
Gross Wkg. Capital								

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ANNEXURE - 3

0.00

ASSESSMENT OF WORKING CAPITAL REQUIREMENTS

(Rs. in lacs)

Particulars	Stk.Prđ.	Stk.Prđ.		Operating Years				
	1st Year	2nd Yr&+		1-2	2-3	3-4	4-5	5-6
Capacity	Months	Months	%	60.00	70.00	80.00	90.00	100.00
CURRENT LIABILITIES								
Sundry Creditors - Raw Material Cost								
Indigenous								
Lab & ETP Chemical								
Packing Material								
Miscellaneous Cost								
Current Expenses								
Other Current Liabilities								
Total								
Instalments Due Within Next 12 Months: Term Borrowings								
Total Current Liabilities								
Net Wkg.Capital(Tot.CA - Tot.CL)								
M.P.B.F. -Method I								
As Per Tandon Com.Norm-Method II - Permissible Finance - D.P.(%age)								
Work in Process %	0.65	DP						
Finished Goods %	0.70	DP						
Total Bank Finance(DP Method)								
Bank Finance(Turnover Method)								
Bank Finance : As per DP Method								
Margin Money : (At Commencement)								
Margin Money:(incl.Cash/Bk. Bal)								
% Margin Money - Net Wkg.Capital								
Current Ratio (No. of times)								

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0.00

ANNEXURE - 3

Working note for calculation of Work-in-process

Description of Product	% assumed for WIP Completion	Rate per unit in Rs.	Equivalent (%) Rate per unit in Rs.
Packing Materials Gunny Bags			
Maintenance Exp.			

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ANNEXURE - 3

Working note for calculation of Work-in-process

Description of Product	% assumed for WIP Completion	Rate per unit in Rs.	Equivalent (%) Rate per unit in Rs.
Label & Stickers			
Lab & Other Chemicals Cost			
Consumable Store			
Total			

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ANNEXURE - 4

0.00

SOURCES AND DISPOSITION OF FUNDS

(Rs. in lacs)

Particulars	Constr. Period	Operating Years				
		1-2	2-3	3-4	4-5	5-6
SOURCES OF FUNDS						
Net Profit Before Tax with Interest Charges Added Back but after Depreciation Provision						
Equity Share Capital						
Depreciation						
Incr.in Long/Medium Term Proposed-FROM BANK						
Incr.in Bank Borrowing for Working Capital						
Incr.in Cur.Liabilities						
Technical Knowhow Fees & Exp.						
Total Sources of Fund						
DISPOSITIONS OF FUNDS						
P & P Expenses						
Technical Knowhow Fees						
Incr.in Capital Expense						
Incr.in Current Assets						
Decr.in Long/Medium Term Proposed-FROM BANK						
Interest/Financial Exp.						
Taxes on Profit						
Total Disposition						
Opening Balance						
Net Surplus / Deficit						
Closing Balance						

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ANNEXURE - 5
PROJECTED BALANCE SHEETS

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Equity Share Capital					
Surplus of Previous Year					
Add : Net Profit After Taxes					
Surplus at the End of Year					
Unsecured Deposits					
Long/Medium Term Borrowings Proposed-FROM BANK					
Bank Borrowing for Wkg. Capital					
Current Liabilities					
Sundry Creditors					
Other Current Liabilities					
Total Current Liabilities					
Total of Liabilities					

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ANNEXURE - 5
PROJECTED BALANCE SHEETS

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
A S S E T S					
Fixed Assets					
Gross Block					
Less : Depreciation to Date					
Net Block					
Current Assets					
Stocks on Hand					
Receivables					
Other Current Assets					
Cash and Bank Balances					
Total Current Assets					
P & P Exp. and/or Other Dvp.Exp.					
(To The Extent Not W/Off)					
Other Non Current Assets					
Total of Assets					
ROI (Average of Fixed Assets)					
RONW (Average of Share Capital)					
ROI (Average of Total Assets)					

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ANNEXURE - 6

0.00

PROFITABILITY RATIOS, DSCR, DEBT EQUITY, ETC.

(Rs. in lacs)

Particulars		Operating Years				
		1-2	2-3	3-4	4-5	5-6
Profit Percentages to Net Sales						
Gross Profit						
% Of G.P. to Net Sales						
Net Profit Before Taxes						
% of N.P.B.T. To Net Sales						
Net Profit After Taxes						
% of N.P.A.T. To Net Sales						
Debt Service Coverage Ratio						
Funds Available to Service Debts						
Net Profit After Taxes						
Depreciation Charges						
Technical Knowhow Fees & Exp						
Interest on Long/Medium Term						
T o t a l						
Debt Service Obligations						
Repayment of Long/Medium Ter						
Interest on Long/Medium Term						
T o t a l						
D. S. C. R. (Individual)						
D. S. C. R. (Cumulative)						
D. S. C. R. (Overall)						
Parameters						
Initial Equity Capital						
Credit Balance in P & L						
Total Capital excl Unsec Deposits						
Unsecured Dep.						
Total Equity incl Unsecured Deposits						
Long/Medium Term Borrowings from Bank						

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ANNEXURE - 6

0.00

PROFITABILITY RATIOS, DSCR, DEBT EQUITY, ETC.

(Rs. in lacs)

Particulars		Operating Years				
		1-2	2-3	3-4	4-5	5-6
Term lia. Incl Unsecured Deposit						
Total Liabilities						
Total Liabilities incl Unsecured Deposits						
DEBT EQUITY RATIO considering						
i.e.Total Term Lia./NW						
Unsecured Dep. as Equity						
Unsecured Dep. as Debt						
Total Outside Lia./NW						
Assets Turnover Ratio (x)						
No. of Shares of 10.00 each						
Earnings Per Share(EPS) (in Rs.)						
Proposed dividend						
Cash EPS (in Rs.)						
Dividend Per Share(DPS) (in Rs.)						
Payout Ratio (%Age)						
Retained Earnings/Share (in Rs.)						
Retained Earnings (%Age)						
Book Value Per Share (in Rs.)						
Debt Per Share (in Rs.)						
Probable Mkt.Price/Share(in Rs.)						
Price / Book Value (x)						
Price Earnings Ratio (x)						
Yield (%Age)						

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ANNEXURE - 7 BREAK EVEN ANALYSIS

0.00

(Rs. in lacs)

Particulars	Ratio	Operating Years				
		1-2	2-3	3-4	4-5	5-6
BREAK EVEN ANALYSIS						
Total Value of Output						
Variable Cost & Expenses						
Raw Material Cost						
Lab & ETP Chemical Cost						
Packing Material Cost						
Sales Commission/Exp.						
Sub-total						
Less:W.I.P. Adjustments						
Total Variable Cost						
Net Contribution						
Profit Volume Ratio (%)						
Semi-Var./Semi-Fixed Exp.						
Miscellaneous Cost						
Employees Expenses						
Power/Electricity Expen						
Fuel Expenses						
Royalty & Other Charges						

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ANNEXURE - 7 BREAK EVEN ANALYSIS

0.00

(Rs. in lacs)

Particulars	Ratio	Operating Years				
		1-2	2-3	3-4	4-5	5-6
Repairs & Maintenance E						
Other Mfg. Expenses						
Administration Expenses						
Selling Expenses						
Interest on Wkg.Capital						
Tot.Semi-Var./Fixed Exp.						
Fixed Expenses / Cost						
Miscellaneous Cost						
Employees Expenses						
Power/Electricity Expen						
Fuel Expenses						
Royalty & Other Charges						
Repairs & Maintenance E						
Other Mfg. Expenses						
Administration Expenses						
Selling Expenses						
Intrest-Fixed Borrowing						
Intrest-Working Capital						
Depreciation Charges						

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ANNEXURE - 7 BREAK EVEN ANALYSIS

0.00

(Rs. in lacs)

Particulars		Operating Years				
	Ratio	1-2	2-3	3-4	4-5	5-6
Deferred Expenses W/Off						
Total Fixed Expenses						
Tot.Fixed/Semi-Fixed Exp						
Tot.Cash Fixed/SemiFixed						
Cash Break Even Sales						
Cash Margin of Safety						
Break Even Sales						
Margin of safety						
At Maximum Utilisation :	Year					
(as % of Installed Capacity)						
Cash B.E.P. :	%					
B.E.P. :	%					

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ANNEXURE - 8

0.00

SENSITIVITY ANALYSIS - I

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
INCREASE IN SALES PRICES ::: By 2.00 %					
Resultant - Sale Value(Sales)					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					
Resultant - DSCR (cumulative)					
Resultant - DSCR (overall)					
Resultant - Sale Value(Output)					
As such - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - Cash Margin of Safety					
Resultant - BEP Sales					
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					

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Cold Storage

ANNEXURE - 8
SENSITIVITY ANALYSIS - I

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - BEP %age (Yr. 5)	*****	*****	*****	*****	
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age) (Based on Fixed Assets)					
Resultant - RONW (%age)					
DECREASE IN SALES PRICES ::: By 2.00 %					
Resultant - Sale Value(Sales)					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					
Resultant - DSCR (cumulative)					
Resultant - DSCR (overall)	*****	*****		*****	*****

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Cold Storage

ANNEXURE - 8

0.00

SENSITIVITY ANALYSIS - I

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - Sale Value(Output)					
As such - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - BEP Sales					
Resultant - Cash Margin of Safety					
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					
Resultant - BEP %age (Yr. 5)					
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age)					
Resultant - RONW (%age)					

Cold Storage

ANNEXURE - 9
SENSITIVITY ANALYSIS - II

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
INCREASE IN SALES PRICES ::: By 5.00 %					
Resultant - Sale Value(Sales)					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					
Resultant - DSCR (cumulative)					
Resultant - DSCR (overall)					
Resultant - Sale Value(Output)					
As such - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - BEP Sales					
Resultant - Cash Margin of Safety					
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					

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ANNEXURE - 9
SENSITIVITY ANALYSIS - II

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - BEP %age (Yr. 5)					
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age)					
Resultant - RONW (%age)					
DECREASE IN SALES PRICES ::: By 5.00 %					
Resultant - Sale Value(Sales)					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					
Resultant - DSCR (cumulative)					
Resultant - DSCR (overall)					

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ANNEXURE - 9

0.00

SENSITIVITY ANALYSIS - II

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - Sale Value(Output)					
As such - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - BEP Sales					
Resultant - Cash Margin of Safety					
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					
Resultant - BEP %age (Yr. 5)					
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age)					
Resultant - RONW (%age)					

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ANNEXURE - 10
SENSITIVITY ANALYSIS - III

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
INCREASE IN MAIN MATERIAL PRICES ::: By 2.00 %					
Resultant - Main Material Amt					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					
Resultant - DSCR (cumulative)					
Resultant - DSCR (overall)					
As such - Sale Value(Output)					
Resultant - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - BEP Sales					
Resultant - Cash Margin of Safety					

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ANNEXURE - 10
SENSITIVITY ANALYSIS - III

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					
Resultant - BEP %age (Yr. 5)					
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age)					
Resultant - RONW (%age)					
DECREASE IN MAIN MATERIAL PRICES ::: By 2.00 %					
Resultant - Main Material Amt					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					

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ANNEXURE - 10
SENSITIVITY ANALYSIS - III

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - DSCR (cumulative)					
Resultant - DSCR (overall)					
As such - Sale Value(Output)					
Resultant - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - BEP Sales					
Resultant - Cash Margin of Safety					
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					
Resultant - BEP %age (Yr. 5)					
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age)					
Resultant - RONW (%age)					

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ANNEXURE - 11
SENSITIVITY ANALYSIS - IV

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
INCREASE IN MAIN MATERIAL PRICES ::: By 5.00 %					
Resultant - Main Material Amt					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					
Resultant - DSCR (cumulative)					
Resultant - DSCR (overall)					]
As such - Sale Value(Output)					
Resultant - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - BEP Sales					
Resultant - Cash Margin of Safety					

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ANNEXURE - 11
SENSITIVITY ANALYSIS - IV

0.00

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					
Resultant - BEP %age (Yr. 5)					
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age)					
Resultant - RONW (%age)					
DECREASE IN MAIN MATERIAL PRICES ::: By 5.00 %					
Resultant - Main Material Amt					
Resultant - Gross Profit					
Resultant - N.P.B.T.					
Resultant - Tax on Profit					
Resultant - N.P.A.T.					
Resultant - Funds available					
As such - Debt Obligations					
Resultant - DSCR (Individual)					
Resultant - DSCR (cumulative)					

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ANNEXURE - 11

0.00

SENSITIVITY ANALYSIS - IV

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Resultant - DSCR (overall)					
As such - Sale Value(Output)					
Resultant - Variable Cost					
Resultant - Nett Contribution					
Resultant - PV Ratio (%age)					
Resultant - Cash BEP Sales					
Resultant - BEP Sales					
Resultant - Cash Margin of Safety					
Resultant - Margin of safety					
Resultant - Cash BEP % (Yr. 5)					
Resultant - BEP %age (Yr. 5)					
Resultant - DEBT EQUITY RATIO					
- Unsecured Dep. as Equity					
- Unsecured Dep. as Debt					
Resultant - ROI (%age)					
Resultant - RONW (%age)					

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Cold Storage

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ANNEXURE - 12 SHAREHOLDING PATTERN AND STAKE STATUS

(Rs. in lacs)

Shares	Face Value Rs./ Share	Share Capital				
Particulars	Existing	Existing	Proposed	Proposed	Total	Total
	%age		%age		%age	
Capital						
Share Premium						
Total						

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ANNEXURE - 13

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QUANTITATIVE DETAILS OF OUTPUT, SALES AND STOCKS

Particulars	UOM	Operating Years				
		1 - 2	2 - 3	3 - 4	4 - 5	5 - 6
Determined Capacity P.A of Products/Services	.					
Cold Storage	MT					
Achievable Efficiency/Yield % of Products/Services/Items						
Cold Storage	%					
Net Usable Load/Capacity of Products/Services/Items						
Cold Storage	MT					
No of Shifts Wkg./Day						
No of Working Days/Year						
Expected Usage/Utilisation of Achievable Load/Capacity (%)						
Cold Storage	%					
Expected Usage/Output						
Cold Storage	MT					
Total						
Expected Sales/ Revenue/ Income of Products/ Services/ Items						

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ANNEXURE - 13

0

QUANTITATIVE DETAILS OF OUTPUT, SALES AND STOCKS

Particulars	UOM	Operating Years				
		1 - 2	2 - 3	3 - 4	4 - 5	5 - 6
Cold Storage	MT					

Cold Storage

ANNEXURE - 14

0.00

PRODUCT-WISE DOMESTIC SALES REALISATION

(Rs. in lacs)

Operating Year	UOM	Quantity	Rate	Sales
Description of Product				
1-2				
Cold Storage	MT			
Year Totals ::				
2-3				
Cold Storage	MT			
Year Totals ::				
3-4				
Cold Storage	MT			
Year Totals ::				
4-5				
Cold Storage	MT			
Year Totals ::				
5-6				
Cold Storage	MT			
Year Totals ::				

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ANNEXURE - 15

0.00

TOTAL RAW MATERIAL COST

(Rs. in lacs)

Operating Year / Description of Product	UOM	Output Quantity	Adj. for WIP Stks	Total Quantity	Cost Per Unit	Material Type I	Material Type II	Total
1-2								
Cold Storage	MT							
Total Raw Mat.Requirement								
2-3								
Cold Storage	MT							
Total Raw Mat.Requirement								
3-4								
Cold Storage	MT							
Total Raw Mat.Requirement								
4-5								
Cold Storage	MT							
Total Raw Mat.Requirement								
5-6								
Cold Storage	MT							
Total Raw Mat.Requirement								

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ANNEXURE - 16

RAW MATERIAL COST PER UNIT

(Amount in Rs.)

Description of Product / Description of Raw-Material	UOM	Qty.Per Batch	Losses %age	Total Quantity	Rate Per Unit	Total	Batch Qty of Output	Amount Per Unit
Cold Storage								
Packing Materials Gunny Bags	Nos							
Maintenance Exp.								
Sub Totals								
Add Loss/Wastage @ 0.00%	0.00%					-		
Totals (Indigenous)								

Cold Storage

ANNEXURE - 17

0.00

TOTAL LAB & ETP CHEMICALS COST

(Rs. in lacs)

Operating Year / Description of Product	UOM	Output Quantity	Adj. for WIP Stks	Total Quantity	Cost Per Unit	Total
1-2						
Lab & Other Chemicals Cost						
Year Total::						
2-3						
Lab & Other Chemicals Cost						
Year Total::						
3-4						
Lab & Other Chemicals Cost						
Year Total::						
4-5						
Lab & Other Chemicals Cost						
Year Total::						
5-6						
Lab & Other Chemicals Cost						
Year Total::						

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Cold Storage

ANNEXURE - 18
CONSUMABLES, STORES AND SPARES EXPENSES

0.00

(Rs. in lacs)

Operating Year / Description of Product	UOM	Output Quantity	Adj. for WIP Stks	Total Quantity	Cost Per Unit	Total
1-2						
Consumable Store	Nos					
Year Total::						
2-3						
Consumable Store	Nos					
Year Total::						
3-4						
Consumable Store	Nos					
Year Total::						
4-5						
Consumable Store	Nos					
Year Total::						
5-6						
Consumable Store	Nos					
Year Total::						

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Cold Storage

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ANNEXURE - 19
TOTAL PACKING MATERIAL COST

(Rs. in lacs)

Operating Year / Description of Product	UOM	Output Quantity	Adj. for WIP Stks	Total Quantity	Cost Per Unit	Total
Cold Storage						
Year Total::						
2-3						
Cold Storage						
Year Total::						
3-4						
Cold Storage						
Year Total::						
4-5						
Cold Storage						
Year Total::						
5-6						
Cold Storage						
Year Total::						

Cold Storage

0

ANNEXURE - 20

PACKING MATERIAL COST PER UNIT

(Amount in Rs.)

Description of Product / Description of Packing Material	UOM	Qty.Per Batch	Losses %age	Total Quantity	Rate Per Unit	Total	Batch Qty of Output	Amount Per Unit
Cold Storage								
Label & Stickers	Nos							
Sub Total								
Add Loss/Wastage @ 0.00 %								
Product Total								

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Cold Storage

ANNEXURE - 21
EMPLOYEES EXPENSES

0.00

(Rs. in lacs)

Placement / Designation	Dept./ Category	Starting Year	Starting Month	No.of Persons	Pay Per Month	Total Per Annum
Factory Personnel						
As Applicable from Year 1						
Manager						
Accountant						
Computer Operators						
Shift Supervisors						
Skilled Workers						
Electricians						
Fitters						
Unskilled Workers						
Office Staffs						
Peons						
Security Guards						
T O T A L						
Welfare Expenses						
Year Total						
T o t a l (Factory)						
Grand Total						

EMPLOYEES EXPENSES

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Cold Storage

ANNEXURE - 21
EMPLOYEES EXPENSES

0.00

(Rs. in lacs)

Placement / Designation	Dept./ Category	Starting Year	Starting Month	No.of Persons	Pay Per Month	Total Per Annum
-------------------------	--------------------	---------------	----------------	---------------	---------------	-----------------

Operating Year	%age Increase	Total
1-2		
2-3		
3-4		
4-5		
5-6		

Cold Storage

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ANNEXURE - 22 FUEL EXPENSES

(Rs. in lacs)

Operating Year	%age Increase	Total
1-2		
2-3		
3-4		
4-5		
5-6		

Cold Storage

0

ANNEXURE - 23

POWER/ELECTRICITY EXPENSES

(Rs. in lacs)

Operating Year	%age Increase	Total
1-2		
2-3		
3-4		
4-5		
5-6		

Cold Storage

0

ANNEXURE - 24

ROYALTY AND OTHER CHARGES

(Rs. in lacs)

Operating Year	%age Increase	Total
1-2		
2-3		
3-4		
4-5		
5-6		

Cold Storage

0

ANNEXURE - 25

REPAIRS AND MAINTENANCE EXPENSES

(Rs. in lacs)

Particulars	%age to Assets Value	Total
Buildings		
-Factory Building		
Plant & Machineries		
-Imported Machineries		
-Indigenous Machineries		
-Maintenance Equipments		
-Laboratory Equipments		
-Miscellaneous Machines		
-Foundation, Installation		
-Motor Vehicles		
-Office Automation Equipments		
-Furniture & Fixtures		
TOTAL		

Operating Year	% Increase	Total
1-2		
2-3		
3-4		
4-5		
5-6		

Cold Storage

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ANNEXURE - 26

OTHER MANUFACTURING EXPENSES

(Rs. in lacs)

Particulars	Total
Insurance Professional fees	
Water Exp.	
T o t a l	

Operating Year	% Increase	Total
1-2		
2-3		
3-4		
4-5		
5-6		

Cold Storage

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ANNEXURE - 27

ADMINISTRATIVE AND GENERAL EXPENSES

(Rs. in lacs)

Particulars	Total
Administration expense	
Stationery Exp., Telephone, Postage	
Repairs and Maintanance	
Internet Expenses	
Conveyance Exp.	
Publicity Exp.	
T o t a l	

Operating Year	% Increase	Total	Misc	Total
1-2				
2-3				
3-4				
4-5				
5-6				

Cold Storage

0

ANNEXURE - 28

SELLING AND DISTRIBUTION EXPENSES

(Rs. in lacs)

Operating Year	% Increase	Total
1-2		
2-3		
3-4		
4-5		
5-6		

Cold Storage

ANNEXURE - 29

0.00

DEPRECIATION CHARGES AS PER BOOKS (TOTAL)

(Rs. in lacs)

Operating Year	F.Assets Type A-1	F.Assets Type A-2	F.Assets Type B	F.Assets Type C	F.Assets Type D-1	F.Assets Type D-2	Total
Particulars	Factory Building -	Office Buildings	PLANT & MACHINERY	Office Vehicles	Office Automation Equipments (Telephone/ Fax/ Computer)	Furniture & Fixtures	
1-2							
2-3							
3-4							
4-5							
5-6							

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Cold Storage

ANNEXURE - 29

0.00

DEPRECIATION CHARGES AS PER BOOKS (TOTAL)

(Rs. in lacs)

Particulars	Method	Deprn.Rate	Part Consideration (for Asset put to use less than 6 months)
Type A :: Buildings			
Factory Building -	WDV		
Office Buildings	WDV		
Type C			
Office Vehicles	WDV		
Type D :: Misc. Fixed Assets			
Office Automation Equipments (Telephone/ Fax/	WDV		
Furniture & Fixtures	WDV		

Type B :: Plant & Machineries (All calculation are given in Annexure 30)

Contingencies, Pre-operative Expenses and Capital WIP are capitalised as under (Rs. in lacs)

Description	P & P Expenses	Contingencies	Capital WIP	Total
Factory Building -				
Total				

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Cold Storage

ANNEXURE - 30

0.00

DEPRECIATION CHARGES AS PER BOOKS (P&M)

(Rs. in lacs)

Operating Year	F.Assets Type B-1	F.Assets Type B-2	F.Assets Type B-3	F.Assets Type B-4	F.Assets Type B-5	F.Assets Type B-6	Total
PLANT & MACHINERY	Imported Machineries	Indigenous Machineries	Erection & Installation	Laboratory & Testing Equipments	Miscellaneous Exp.	Maintenance Equipments	
1-2							
2-3							
3-4							
4-5							
5-6							

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Cold Storage

ANNEXURE - 30

0.00

DEPRECIATION CHARGES AS PER BOOKS (P&M)

(Rs. in lacs)

Particulars	Method	Dep.Rate	Part Consideration, if any
Imported Machineries	WDV		
Indigenous Machineries	WDV		
Erection & Installation	WDV		
Laboratory & Testing Equipments	WDV		
Miscellaneous Exp.	WDV		
Maintenance Equipments	WDV		

Contingencies, Pre-operative Expenses and Capital WIP are capitalised as under

(Rs. in lacs)

Description	P & P Expenses	Contingencies	Capital WIP	Total
Imported Machineries				
Indigenous Machineries				
Erection & Installation				
Laboratory & Testing Equipments				
Miscellaneous Exp.				
Maintenance Equipments				
Total				

Prepared by "Niir Project Consultancy Services"

Cold Storage

ANNEXURE - 31

0.00

DEPRECIATION CHARGES AS PER INCOME TAX ACT (WDV) (TOTAL)

(Rs. in lacs)

Operating Year	F.Assets Type A-1	F.Assets Type A-2	F.Assets Type B	F.Assets Type C	F.Assets Type D-1	F.Assets Type D-2	Total
Particulars	Factory Building -	Office Buildings	PLANT & MACHINERY	Office Vehicles	Office Automation Equipments (Telephone/ Fax/ Computer)	Furniture & Fixtures	
1-2							
2-3							
3-4							
4-5							
5-6							

Depreciation hereinabove is calculated as per WDV at rates prescribed under I.T.Act

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Cold Storage

ANNEXURE - 31

0.00

DEPRECIATION CHARGES AS PER INCOME TAX ACT (WDV) (TOTAL)

Particulars	Method	Dep.Rate	Part Consideration (for Asset put to use less than 6 months)
Type A :: Buildings			
Factory Building	WDV		
Office Building	WDV		
Type C			
Motor Vehicles	WDV		
Type D :: Misc. Fixed Assets			
Office Automation Equipments	WDV		
Furniture & Fixtures	WDV		

Type B :: Plant & Machineries(All calculation are given in Annexure 32)

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Cold Storage

ANNEXURE - 32

0.00

DEPRECIATION CHARGES AS PER INCOME TAX ACT(WDV) (P&M)

(Rs. in lacs)

Operating Year	F.Assets Type B-1	F.Assets Type B-2	F.Assets Type B-3	F.Assets Type B-4	F.Assets Type B-5	F.Assets Type B-6	Total
PLANT & MACHINERY	Imported Machineries	Indigenous Machineries	Erection & Installation	Laboratory & Testing Equipments	Miscellaneous Exp.	Maintenance Equipments	
1-2							
2-3							
3-4							
4-5							
5-6							

Depreciation hereinabove is calculated as per WDV at rates prescribed under I.T.Act

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Cold Storage

ANNEXURE - 32

0.00

DEPRECIATION CHARGES AS PER INCOME TAX ACT(WDV) (P&M)

Particulars	Method	Dep.Rate	Part Consideration, if any
Imported Machineries	WDV		
Indigenous Machineries	WDV		
Maintenance Equipments	WDV		
Laboratory Equipments	WDV		
Miscellaneous Equipments	WDV		
Foundation, Installation etc.	WDV		

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ANNEXURE - 33

0.00

INTEREST AND REPAYMENT ON TERM LOANS

(Rs. in lacs)

A	Name of Institution-Bank		
B	Term Borrowing Amount		Lacs
C	Repayment Term (Years)		Years
D	Repayment Instalments		Instalments
E	Repayment Commencement		
F	Rate of Interest(General)		p.a.
F	Rate of Interest(Initial)		p.a.
G	Apply Gen. Int. Rate from Year		
H	Interest Calculation		

Operating Year	Period Ended	Repayment	Outstanding	Interest
	Quarter Ended			
1-2				
	TOTAL :			
2-3				
	TOTAL :			
3-4				
	TOTAL :			
4-5				
	TOTAL :			
5-6				
	TOTAL :			
Total Loan amount				

Note : Repayment is considered as being made at the end of the period

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ANNEXURE - 34
TAX ON PROFITS

(Rs. in lacs)

Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Net Profit Before Taxes					
Adjustments to NPBT					
Add : Depreciation as provided					
Less : Depreciation as per IT					
Recomputed NPBT					
Taxable Profits					
(%)					
Tax on Profits					

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ANNEXURE - 35

0.00

PROJECTED PAY-BACK PERIOD AND IRR

(Rs. in lacs)

Particulars	Operating Years					Total
	1-2	2-3	3-4	4-5	5-6	
IN-FLOW of Funds						
Net Profit After Taxes						
Added Back						
Depreciation Charges						
P & P Expenses W/off						
Interest Charges						
Revenue Inflow of Funds						
Residual Value-M/Money						
Total Inflow of Funds						
OUT-FLOW of Funds						
Capital Out-flow of Funds						

(Rs. in lacs)

Projected Pay Back Period					
Particulars	Operating Years				
	1-2	2-3	3-4	4-5	5-6
Year	1	2	3	4	5
Initial Investment					
Total Initial Investment					
Yearly Cash Flow					
Accumulated Cash Flow					
Pay Back Period	2 Years 3 Months		2 Years 9.77months		

Cold Storage

ANNEXURE - 35

0.00

PROJECTED PAY-BACK PERIOD AND IRR

(Rs. in lacs)

Projected IRR			
Year	CFAT	PV factor @15%	0.15
Initial Investment			
1-2			
2-3			
3-4			
4-5			
5-6			
Total PV			
IRR			

Cold Storage

0

PROJECT AT A GLANCE

(Rs. in lacs)

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.				Capital			
Buildings				Share Premium			
Plant & Machineries				Other Type Share Capital			
Motor Vehicles				Reserves & Surplus			
Office Automation Equipments				Cash Subsidy			
Technical Knowhow Fees & Exp.				Internal Cash Accruals			
Franchise & Other Deposits				Long/Medium Term Borrowings			
Preliminary& Pre-operative Exp				Debentures / Bonds			
Provision for Contingencies				Unsecured Loans/Deposits			
Margin Money - Working Capital							
TOTAL				TOTAL			

Cold Storage

PROJECT AT A GLANCE

0

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs		%
1-2											
2-3											
3-4											
4-5											
5-6											

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribut ion	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial														
1-2														
2-3														
3-4														
4-5														
5-6														

Cold Storage

PROJECT AT A GLANCE

0

BEP	
BEP - Maximum Utilisation Year	
Cash BEP (% of Installed Capacity)	
Total BEP (% of Installed Capacity)	
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	
Payback Period of the Project is (In Years)	
Fixed Assets Coverage Ratio (No. of times)	