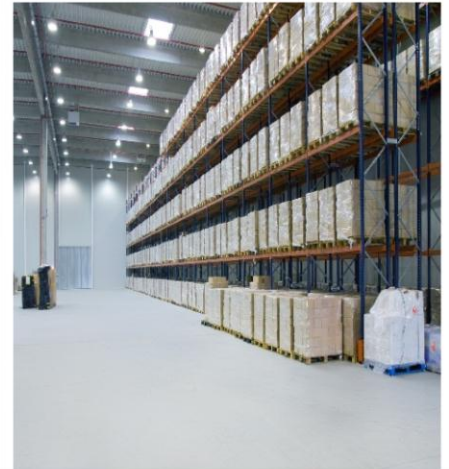


Projects on Cold Storage:

Multipurpose Cold Storage

(Controlled Atmosphere Storage, Multipurpose, Multi-Commodity Cold Storage, Food, Vegetables & Fruits Storage, Refrigerated Warehousing, Cold Chain, Industrial Cold Rooms, Warehouse & Rural Godowns for Short Term and Long Term Storage, Cold Storage with Ice Plant, Potato Powder, Flakes & Granules with Cold Storage, Cold Storage for Potatoes & Mahua)



Cold storage is basically a term used for refrigerated or frozen storage facilities, usually used to store food or pharmaceuticals.

Storage of food products under low temperatures using temperature and relative humidity controllers to maintain the desired conditions inside the cold rooms as well as ventilations systems to provide adequate storage conditions.

The term "cold storage" refers to the storing of goods in a refrigerated atmosphere. This means heat is removed from the storage container or room to help keep items — often food — fresh for delivery, long- or short-term storage, and so on. Cold storage helps prevent spoilage of foods and other items meant for consumption, and it can be used in a variety of other settings, such as hospitals, warehouses, and anywhere else that stores products in need of preservation. When transporting goods, refrigeration trucks are often used to keep items cold throughout the transportation process.

Reasons to Add a Cold Storage Room

- **Multi Functioning**

Cold Storage Warehouses are completely temperature-adjustable and they can be used for a range of functions. Constant air temperature can also be maintained so as to prevent product deterioration. As they are tightly sealed and a constant temperature is maintained, they help in increasing the life of perishable items.

- **Completely Adjustable**

Cold Storage Warehouses are equipped with an easy temperature control function. They have a temperature control panel where it is very easy to adjust the unit to any temperature. These units are completely insulated and monitored; they maintain the set temperatures regardless of the temperature outside.

- **Accessible**

One of the best features about a cold storage room is that they are very flexible. They can be made any size or shape and can have many more shelves than your fridge. This will make it much easier to display and find what you are looking for.

- **Ideal for Storing Vegetables**

Cold storage rooms are also perfect for storing vegetables from your garden or local farmers market. These can store any type of vegetable although they are better at storing root vegetables such as carrots and potatoes.

Market Outlook

Cold storages are large refrigerated warehouses, commonly used for storing fruits, vegetables, processed meat, frozen foods and pharmaceuticals. Cold storages serve as an important link between farm produce and final consumer. The demand for cold storage services has been rising due to a growth in food and related industries. There are over 7000 cold storages in India with a total capacity of 32 million metric tonnes, distributed across the country.

Indian cold storage market is expected to grow at a CAGR of 16.09% by 2020 driven by the growth in the organized retail, Indian fast food market, and food processing industry and e-commerce sectors.

Cold storage market in India is expected to be worth US\$ 8.57 billion by 2020.

Refrigerated transportation market which is largest contributor to cold storage market in India is expected to grow at a CAGR rate of 17% in the next 5 years.

The global cold storage construction market is projected to grow from USD 4.59 Billion in 2015 to USD 10.47 Billion by 2021, at a CAGR of 14.0% between 2016 and 2021.

Cold storages in India

State	Number
UP	2215
Gujarat	625
Andhra Pradesh	419
West Bengal	507
Haryana	309
Karnataka	193
Kerala	197
Madhya Pradesh	275
Maharashtra	555
Punjab	619
Rajasthan	158
Tamilnadu	165
Bihar	304
Others	588
Total	7129

Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on

Cold Storage, Controlled Atmosphere Storage, Multipurpose,
Multi-commodity Cold Storage, Food, Vegetables & Fruits
Storage, Refrigerated Warehousing, Cold Chain, Industrial Cold
Rooms, Warehouse & Rural Godowns for Short Term and Long
Term Storage

➤ Warehouse

We often define warehousing as the storage of goods. Broadly interpreted, this definition includes a wide spectrum of facilities and locations that provide warehousing, including the storage of iron ore in open fields; the storage of finished goods in the production facility; and the storage of raw materials, industrial goods, and finished goods while they are in transport....[Read more](#)

➤ **Controlled Atmosphere Cold Storage**

Controlled atmosphere (CA) storage involves maintaining an atmospheric composition that is different from air composition (about 78% N₂, 21% O₂, and 0.03% CO₂); generally, O₂ below 8% and CO₂ above 1% are used. Controlled atmosphere storage is a system for holding produce in an atmosphere that differs substantially from normal air in respect to CO₂ and O₂ levels....[Read more](#)

➤ **Cold Storage with Ice Plant**

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....[Read more](#)

➤ **Cold Storage for Fruits & Vegetables**

Profile 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....[Read more](#)

➤ **Good Future Prospects for Cold Storage**

India ranks first in the world in production of fruits and second in vegetables, accounting roughly 10 and 15 per cent, respectively, 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....[Read more](#)

➤ **Potato Powder, Flakes & Granules with Cold Storage**

Potato is considered to be one of the traditional food items of India. Potato is the staple food for 2/3rd of the world population. India is presently the 3rd largest potato growing country in the world. Potato is one of the important tuber vegetables, which is consumed throughout the year. Its Botanical name is Solanum tuberosum. The main edible part is its tuber. Potato is one of the most important but perishable groups known....[Read more](#)

➤ **Integrated Unit Cold Storage with Food Processing**

Cold storage is a system for holding produce in an atmosphere that differs substantially from normal air in respect to CO₂ and O₂ levels. The gas mixture will constantly change due to metabolic activity of the respiring fruits and vegetables in the store and leakage of gases through doors and walls...[Read more](#)

➤ **Cold Storage for Potatoes & Mahua**

India is the largest producer of fruits and second largest producer of vegetables in the world. In spite of that per capita availability of fruits and vegetables is quite low, because of post-harvest losses, which accounts 25 to 30% of production. Besides, quality of a sizable quantity of produce also deteriorates by the time it reaches the consumers....[Read more](#)

For more details visit at:

Cold Storage, Controlled Atmosphere Storage, Multipurpose, Multi-commodity Cold Storage, Food, Vegetables & Fruits Storage, Refrigerated Warehousing, Cold Chain, Industrial Cold Rooms, Warehouse & Rural Godowns for Short Term and Long Term Storage

The Complete Book on Cold Storage, Cold Chain & Warehouse (with Controlled Atmosphere Storage & Rural Godowns)

Major Queries/Questions Answered in our Report?

- 1. How has the industry performed so far and how will it perform in the coming years?**
- 2. What is the Project Feasibility of the Plant?**
- 3. What are the requirements of Working Capital for setting up the plant?**
- 4. What is the structure of the industry and who are the key/major players?**

- 5. What is the total project cost for setting up the plant?**
- 6. What are the operating costs for setting up the plant?**
- 7. What are the machinery and equipment requirements for setting up the plant?**
- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
- 9. What are the requirements of raw material for setting up the plant?**

- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**
- 11. What is the Plant Layout for setting up the plant?**
- 12. What is the total size of land required for setting up the plant?**
- 13. What will be the income and expenditures for the plant?**
- 14. What are the Projected Balance Sheets of the plant?**

- 15. What are the requirement of utilities and overheads for setting up the plant?**
- 16. What is the Built up Area Requirement and cost for setting up the plant?**
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?**
- 18. What is the Market Study and Assessment for setting up the plant?**
- 19. What is the time required to break-even?**

- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**

Reasons for buying our report:

- **The report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **The report provides vital information on the product like it's characteristics and segmentation**
- **The report helps you market and place the product correctly by identifying the target customer group of the product**

- **The report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

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NIIR PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company

Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



What do we offer?

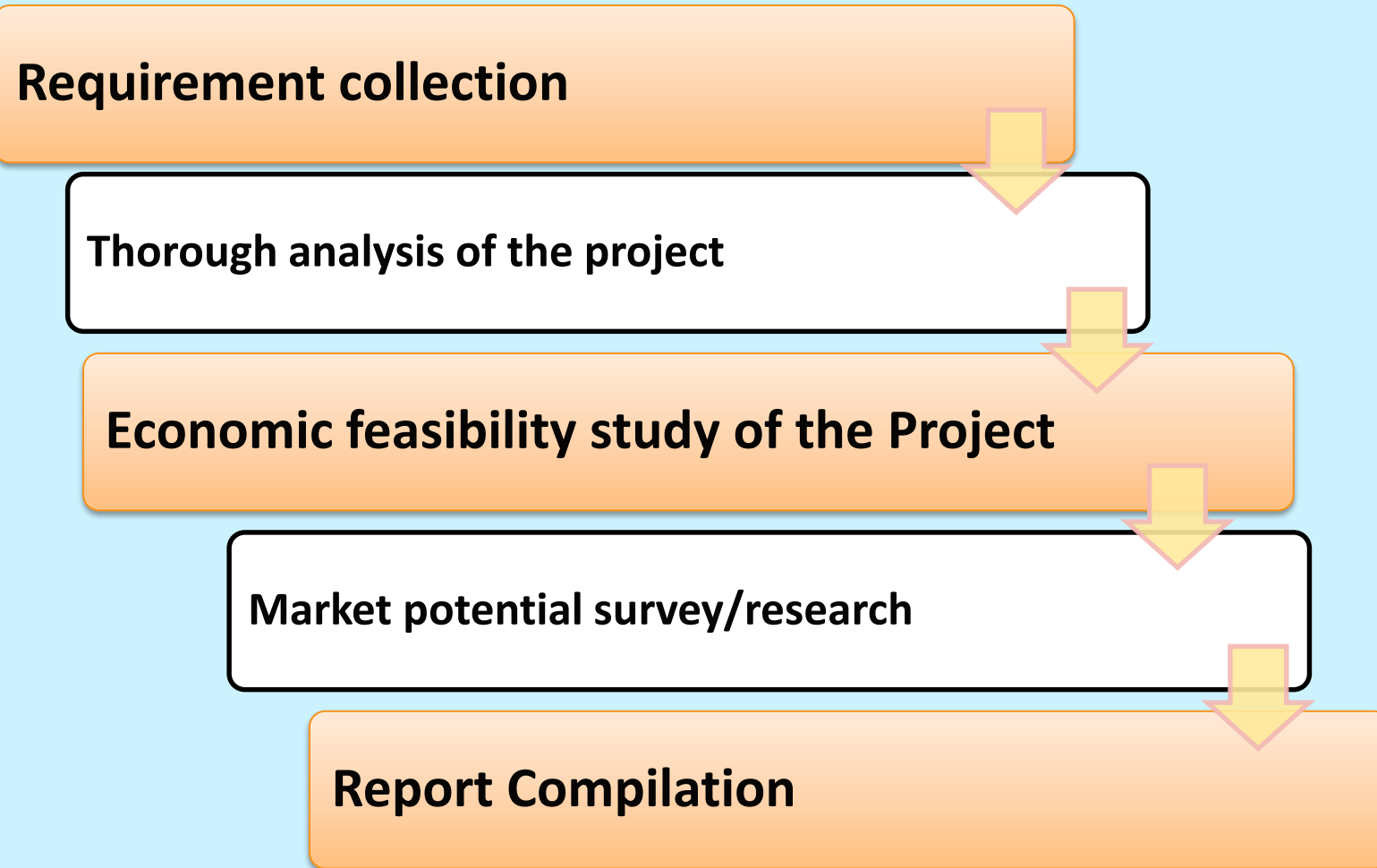
- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Market Research Reports*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach



Who do we serve?

- *Public-sector Companies*
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- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

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- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

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- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
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- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
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- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
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- *Hospital Based Projects*
- *Herbal Based Projects*
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- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
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- *Organic Farming, Neem Products Etc.*

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- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
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