



Feasibility Study
for

Frozen Vegetables Shop

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Introduction

Freezing has been successfully employed for the long-term preservation of many foods, providing a significantly extended shelf life in order to supply them to the customers in the season off. The process involves lowering the product temperature generally to -18 °C or below. The physical state of food material is changed when energy is removed by cooling below freezing temperature. The extreme cold simply retards the growth of microorganisms and slows down the chemical changes that affect quality or cause food to spoil. The frozen food industry dates back to the early years of the twentieth century, when some foods were preserved by the so-called cold-pack method.

Purpose of the documents :

This report of the term project of Facility Planning Course aims to define the idea of frozen vegetables production possibility in Gaza Strip , Describing the project products and process , Preparing a feasibility study , and the layout of the production /factory facility, compensate the increased demand in Gaza strip, especially, with the absence of major facility of frozen vegetables production, law competitiveness in this field, utilization of big production of vegetables in Gaza strip.

Executive summary

- This particular feasibility study is for producing a “frozen vegetables business”. The important aspects that should be taken into account while making investment decisions are efficient marketing, induction of qualified freezing equipment and provision of quality services at reasonable prices.
- The total project cost is **3,200,000** , debt equal to **1.5 million** and self financing . The project NPV is **3,007,509**.
- with an IRR of **39%** , and payback period of **2.28** years , discounted payback period **2.503** years.
- The production full capacity for pea is 70,000 , for corn is **88,000** , for haircut is **60,000** and for Okra is **55,000**.
- The Khanyounis city and surrounding area are the best available location .

Brief description of the project

- This section focus on selecting a definition , determine the opportunity to get a successful idea , determine which products to produce as a frozen vegetables , illustrating the production procedures and processes.

Definition of the project

- In Gaza, the drying and freezing are the oldest, preservation by freezing as a concept started by burying the covered vegetables in the sand, by The seventies the freezing process performed manually in the houses, some self and simple efforts made to develop this area but it stay simple & costly.
- Establishing a facility to utilize the fresh vegetables to be consumable in season off by construction of freezing factory with better resources (including good layout, low operating cost), and commitment of quality culture and its requirements.

— Opportunity to success

- The chance of success is highly regarded, based on the low competitiveness in Gaza, the design, scientific procedures. Also, the governmental support is giving us hope and optimism.

Objectives of the project

- Filling in the local markets requirements , and reducing exports of frozen vegetables.
- Depending on local self production, To make a technical and feasibility study, then to recommend based on results.

Methodology:

- The methodology employed in this feasibility consists of published data such as , interview with frozen vegetables companies , multilateral agencies , freezing experts and ministry of health . And we make questioner to determine the acceptance of this project . Also , the data collected in this feasibility has been analyzed using quantitative and qualitative technique , where required necessary assumptions have been made which have been mentioned in this feasibility .

SWOT Analysis

➤ Strength :

- A firm's strength are its resources and capabilities that can be used as a basis for a developing a competitive advantage . Example of such strength in include :

- Exclusive access to high grade natural resources.
- Favorable access to distribution network.

➤ **Weaknesses :**

- The absence of certain strengths may be viewed as a weaknesses for example each of the following is considered weaknesses :
- High cost structure .
- Lack of access to the best natural resources.
- Lack of access to key distribution channels.

➤ **Opportunities :**

The external environmental analysis may reveal certain new opportunities for profit and growth. Some examples of such opportunities include :

- Arrival of new technologies
- Loosing of regulations
- Removal of international trade barriers

➤ **Threats :**

Changes in the external environmental also may present threats to the firm. Some example of such threats includes :

- Shifts in consumer testes away from the firms products

- Emergence of substitute products
 - New regulation
 - Increase trade barriers
 - The problem of electricity in Gaza strip
 - Restriction imposed by Israel occupation on imports
-

Critical factors

- To establish frozen vegetables business successfully , you must considered the following critical factors :
 - location of business preferably in commercial markets or in area that have large population .
 - Background knowledge and experience of the entrepreneur in the frozen vegetables business.
 - Induction of trained human resource for production of requisite items.
 - Ensure good quality and customers services .
 - Business should be neat and clean with standard tools and equipment.
 - The sale of products must be according to the prevailing market price.

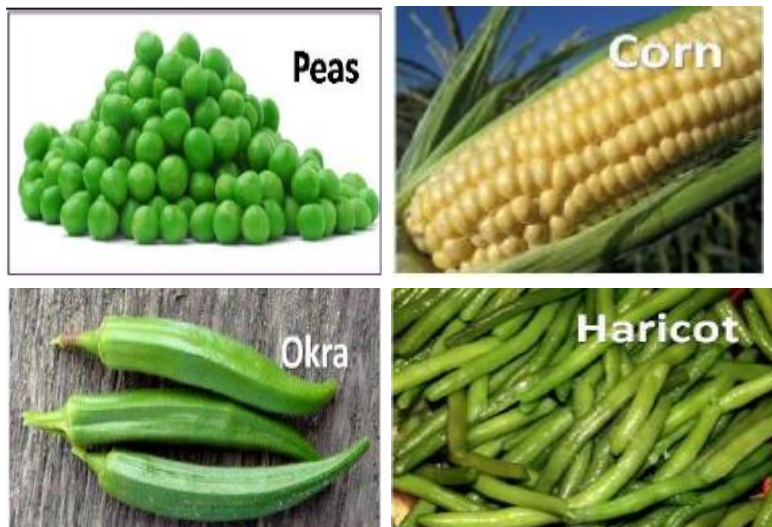
legally study

- This project is considered as a sole proprietorship .
- project products have permit from healthy authority based on product identification low and quality standards
- This project operates in perfect competition market.

Process description

: Products

- Due to the variation in cultivation time of each kind of vegetables, we choose the following products:



Processes description

The following are discussing the processes, identifying them, and its sequence.

Cultivating : The harvesting schedule needs to be agreed on by both the farmer and the producer. The producer may measure the tenderness of the crop, and will also evaluate how much volume the freezing plant can accommodate.

e.g. Peas need to be frozen within hours of picking, and if a backlog develops at the freezing plant, some of the peas may deteriorate.

- **Picking and washing** : the crop may be picked by hand or automatically. Then, a machine called a viner removes them from their shells. If truck transport is necessary, they are cooled with ice water and then packed in ice for transport. At the plant, the crops are dumped into beds and sprayed with water to remove dust and dirt.
- **Blanching** : the cleaned crop are next passed into a vat of boiling water for a few minutes. This kills enzymes that effect the taste of the crop, but it does not cook them. After blanching, the crops are cooled with water and then passed to a specific gravity sorter.
- **Sorting** : The crop are next sorted to remove any old, starchy pieces. They are immersed in water with a specified

- salt content. Tender crop (e.g. peas) float to the top of the brine tank, while peas with a high starch content sink to the bottom. The tender peas are then sprayed with clean water to remove the salt, and they pass to an inspection area.
- **Inspection** : In the inspection area, workers glance over the sorted products as they move along a belt. Nimble workers pick out any discolored or otherwise off products, and also any rocks or other field detritus that may have made it this far.
 - **Packaging and freezing** : Proper packaging of frozen food is important to protect the product from contamination and damage while in transit from the manufacturer to the consumer, as well as to preserve food value, flavour, colour, and texture. There are several factors considered in designing a suitable package for a frozen food. The package should be attractive to the consumer, protected from external contamination, and effective in terms of processing, handling, and cost (Rahman, 1999). Proper selection is based on the type of package and material. There are typically three types of packaging used for frozen foods: primary, secondary, and tertiary. The primary package is in direct contact with the food and the food is kept inside the package up to the time of use. Secondary packaging is a form of multiple packaging used to handle packages together for sale. Tertiary packaging is used for bulk transportation of products.

- Packaging materials should be moisture-vapor-proof to prevent evaporation, thus retaining the highest quality in frozen foods. Oxygen should also be completely evacuated from the package using a vacuum or gas-flush system to prevent migration of moisture and oxygen. Glass and rigid plastic are examples of moisture-vapor-proof packaging materials. Many packaging materials, however, are not moisture-vapor-proof, but are sufficiently moisture-vapor-resistant to retain satisfactory quality in foods. Most bags, wrapping materials, and waxed cartons used in freezing packaging are moisture-vapor-resistant .
- In general, the containers should be leakage free while easy to seal. Durability of the material is another important factor to consider, since the packaging material must not become brittle at low temperatures and crack.
-
- The common equipments (machines) require to work as a production line are:**



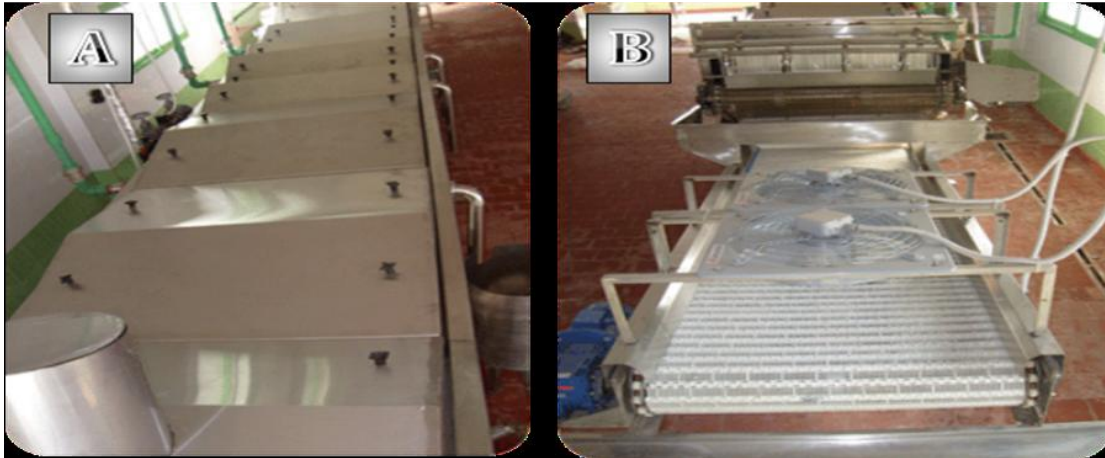
Handling belting



Parboiling line



Filling and Packaging line



Filling and Packaging line; A for filling , B and C for Packaging.



Marketing feasibility study

Market Study :

- Market study almost study demand and supply which are the two main factors to verify if the project feasible or not, many paths should be followed to satisfy this study. In our study we collect the following information which arranged in separate tables to support our study.
- We assume that our products are to be sold to warehouses, so the products will not exceed the 1 day on freezers and storage coolers.
- we identified our market share to be 50%, and this percentage is based on many things, like the governmental support, lower price than the imported frozen vegetable, also better quality because it is not a long time of freezing, and other causes related to supporting the national production etc..

General information about Palestinian economy

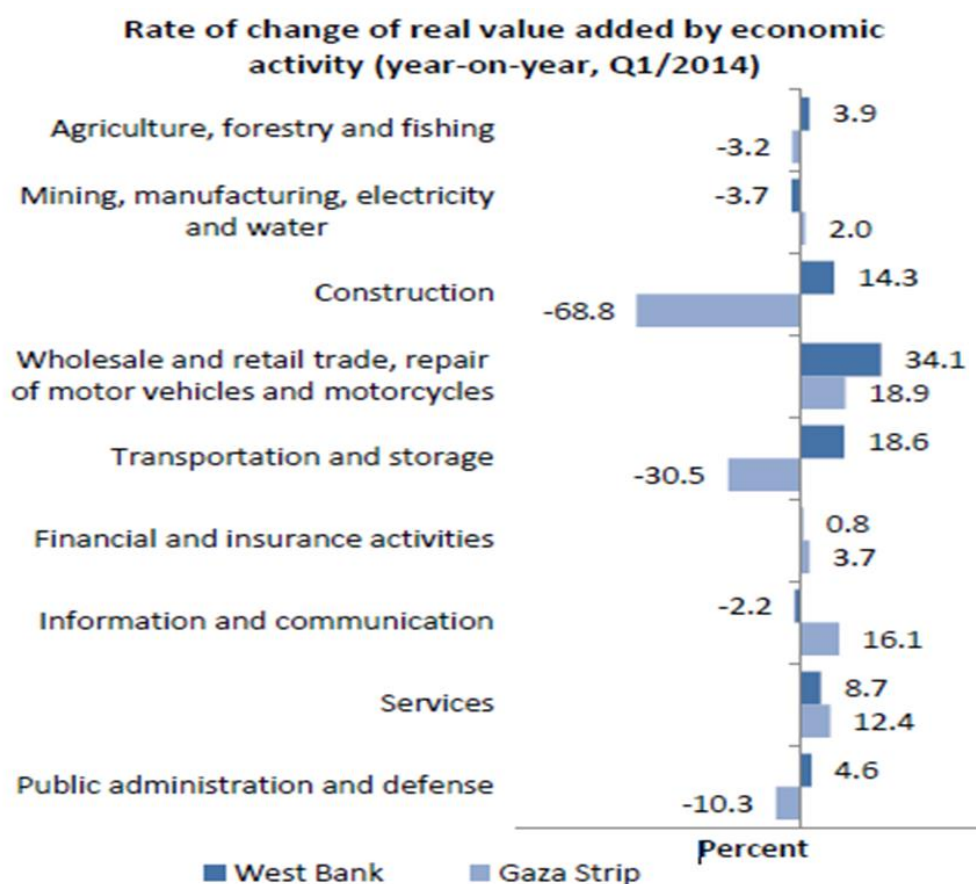
—Economic activity

- Real quarterly GDP was lower in Q1/2014 than in Q4/2013, although an expansion of the economy was observed compared to Q1/2013. In the Gaza Strip, which accounts for only 23% of GDP but 39% of the population, GDP has lower quarter-on quarter since Q2/2013. In this context, nominal GDP per capita is 2.6 times higher in the West Bank than in the Gaza Strip.
- Between Q1/2013 and Q1/2014 there was a significant expansion in the wholesale and retail trade sector in the West Bank (34.1%), followed by transportation and storage (18.6%), construction (14.3%) and services (8.7%). Small decreases in value added were registered in the mining, manufacturing, electricity and water sector, as well as the information and communication sector. Value added by sector underwent considerable changes in the Gaza Strip during the same period, with contractions of 68.8% in construction, 30.5% in transportation and storage, and 10.3% in public administration and defense. At the same time, in the Gaza Strip real value added in wholesale and retail trade grew by 18.9%, and it grew by 16.1% in information and communication and by 12.4% in services.

Key GDP indicators (Q1/2014)

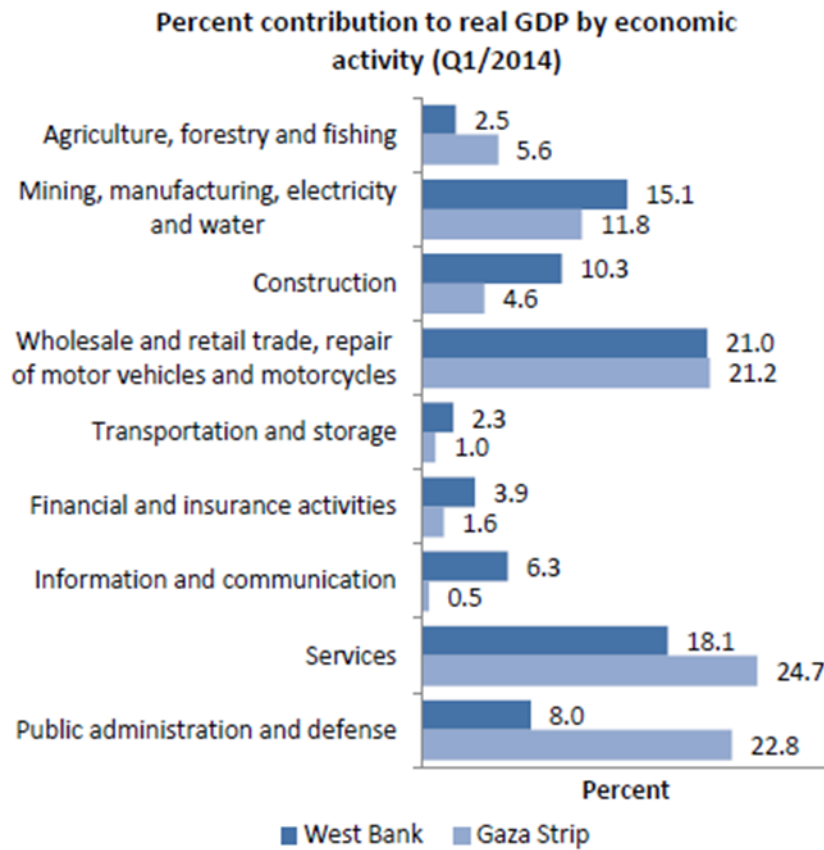
| | West Bank | Gaza Strip | oPt |
|--|-----------|------------|---------|
| Real GDP (million US\$) | 2,314.9 | 700.2 | 3,015.1 |
| Rate of change in real GDP (quarter-on-quarter, %) | 0.0 | -2.7 | -0.6 |
| Rate of change in real GDP (year-on-year, %) | 9.9 | -1.0 | 7.1 |
| Nominal GDP per capita (US\$) | 1,099.1 | 424.4 | 823.0 |

Note: Base year for real GDP is 2010. Data for Q1/2014 are flash estimates.



- As a result of these changes, the wholesale and retail trade sector was the largest in the West Bank economy in Q1/2014, accounting for 21.0% of GDP. This sector was followed by services (18.1%) and mining, manufacturing, electricity and water (15.1%). In the case of the Gaza Strip, services was the largest sector in Q1/2014, accounting for 24.7% of the total, followed by public administration and defense (22.8%) and wholesale and retail trade (21.2%). The construction sector, which accounted for 14.6% of GDP in Q1/2013, saw its share reduced to 4.6% by Q1/2014.
- Final consumption in the West Bank represented 108.8% of GDP in Q1/2014, and 80% of it was in the form of household final consumption, while 19% of the total was government final consumption. Gross capital formation in the West Bank grew by 15.3% between Q1/2013 and Q1/2014, and was equivalent to 27.1% of GDP in Q1/2014. Ninety-one percent of it was gross fixed capital formation. The value of exports of goods and services from the West Bank grew between Q1/2013 and Q1/2014 but not as much as the value of imports. The West Bank trade deficit represented 29.7% of GDP in the quarter.
- In the Gaza Strip, final consumption in Q1/2014 was equivalent to 151.6% of GDP, 63% of it household final consumption and 31% of it government final consumption. Gross capital formation decreased by 79% between Q1/2013 and Q1/2014, when it represented only 2.8% of GDP. Between the first quarters of 2013 and 2014 the value of

exports of goods and services from the Gaza Strip decreased, while that of imports increased, resulting in a trade deficit equivalent to 58.7% of GDP in Q1/2014.



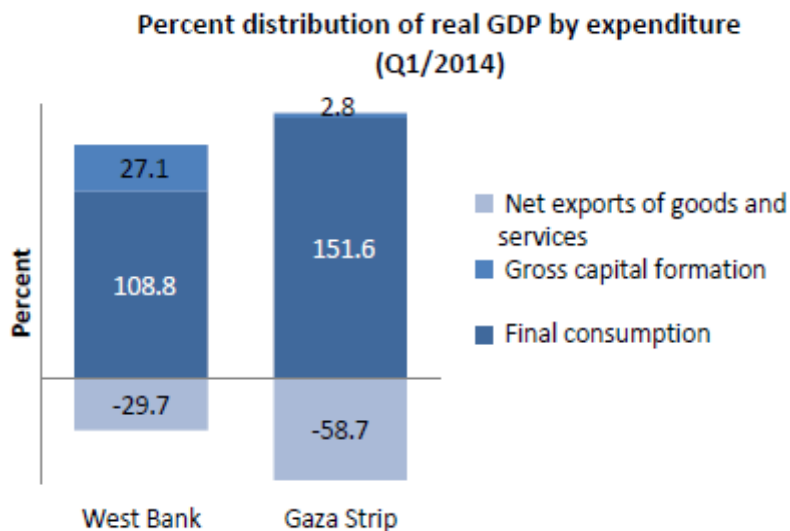


Table 1 : Past and current demand :

| annual Demand | | | | |
|---------------|--------|--------|--------|--------|
| | 2011 | 2012 | 2013 | 2014 |
| Pea | 46,900 | 51,260 | 52,150 | 56,900 |
| Corn | 68,800 | 74,500 | 75,700 | 77,900 |
| Hairocet | 45,150 | 47,380 | 50,350 | 52,650 |
| Okra | 40,250 | 41,600 | 42,850 | 44,180 |

Table 2 : Past and current supply

| annual production | | | | |
|-------------------|--------|--------|--------|--------|
| | 2011 | 2012 | 2013 | 2014 |
| Pea | 50,200 | 52,360 | 54,250 | 55,630 |
| corn | 70,200 | 73,250 | 76,950 | 78,690 |
| Hairocet | 47,250 | 49,100 | 51,200 | 53,250 |
| Okra | 41,200 | 42,500 | 44,100 | 45,150 |

Table 3 : Annual Sales

| | <i>quantity sold during 2011</i> | <i>quantity sold during 2012</i> | <i>quantity sold during 2013</i> | <i>quantity sold during 2014</i> | <i>sales Price</i> | <i>sales during 2011</i> | <i>sales during 2012</i> | <i>sales during 2013</i> | <i>sales during 2014</i> |
|----------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Pea | 4,700 | 51,000 | 52,250 | 55,800 | 10 | 47,000 | 510,000 | 522,500 | 558,000 |
| Corn | 68,600 | 73,680 | 74,650 | 77,500 | 10 | 686,000 | 736,800 | 746,500 | 775,000 |
| Harocet | 45,050 | 46,300 | 49,100 | 51,250 | 9 | 405,450 | 416,700 | 441,900 | 461,250 |
| okra | 39,350 | 40,500 | 42,850 | 43,852 | 11 | 432,850 | 445,500 | 471,350 | 482,372 |

Table 4 : Sales Forecasting

| Sales Focasting | | | | | |
|------------------------|-------------|-------------|-------------|-------------|-------------|
| | 2015 | 2016 | 2017 | 2018 | 2019 |
| Pea | 542,110 | 597,676 | 658,938 | 726,479 | 800,943 |
| Corn | 710,000 | 782,775 | 863,009 | 951,468 | 1,048,993 |
| Hairocet | 433,800 | 478,265 | 527,287 | 581,333 | 640,920 |
| Okra | 467,500 | 515,419 | 568,249 | 626,495 | 690,710 |

Current and Future demand gap

We use regression to find forecasted Demand and forecasted production , we calculate regression by using SPSS :

➤ **Demand forecasting formula :**

- For pea : $Y = 44080 + 3089X$
- For corn : $Y = 67100 + 2850X$
- For Haricot : $Y = 42515 + 2547X$
- For Okra : $Y = 38960 + 1304X$

➤ **Budgeted production formulas :**

- For pea : $Y = 48565 + 1818X$
- For corn : $Y = 67480 + 2917X$
- For haricot : $Y = 45175 + 2010X$
- For okra : $Y = 39875 + 1345X$

➤ **Note : Demand Gap Table is attached in the Project Folder .**

Target Customers

- The business target customers ARE "anyone interested in my services , the medial income class homeowners, or stay-at-home moms. All of these targets are too general.
- To define the market even further, the company could choose to target only those interested in kitchen and bath remodeling and traditional styles .
- With a clearly defined target customers, it is much easier to determine where and how to market your company .

Competitors analysis

- The competitive analysis is a statement of the business strategy and how it relates to the competition. The purpose of the competitive analysis is to determine the strengths and weaknesses of the competitors within the market, strategies that will provide you with a distinct advantage, the barriers that can be developed in order to prevent competition from entering your market, and any weaknesses that can be exploited within the product development cycle .
- The first step in a competitor analysis is to identify the current and potential competition . There are essentially two ways you can identify competitors. The first is to look at the market from the customer's viewpoint and group all your competitors by the degree to which they contend for the buyer's dollar. The second method is to group competitors according to their various competitive strategies so you understand what motivates them.

Location Study

The success of any project depends on its strategic location. The Khanyounis city and surrounding area of it will be the best available location for this project according annual vegetarian production.

| City | North Gaza | Gaza | Dier Al-Balah | Khanyonis | Rafah | total |
|-------------------------------|------------|------|---------------|-----------|--------|---------|
| Annual production 2011(ton). | 53,288 | 9400 | 38,074 | 64,827 | 49,662 | 215,251 |



The forecasted values are to be used in all next studies. After determining the total volume of production of each type we produce as fresh vegetable, it is time now to determine the demand of frozen final product in each type, but before that, let's know the production cost and market price for the selected four products .

Technical Feasibility

Table 5 : areas of departments

| | Department | Area M² |
|--------------|----------------------|---------------------------|
| A | Production Room | 350 |
| B | Freezing Room | 250 |
| C | Management | 50 |
| D | Labor | 40 |
| E | Storage | 130 |
| F | Masjid, WC, services | 90 |
| Total | ** | 910 |

Table 6 : equipment and accessories cost.

| Equipment | Cost(NIS) |
|--|------------------|
| Production line + Installation. According to: Zhengzhou Jiangyuan Machinery And Equipment Co., Ltd | 116,480 |
| Freezing rooms (7 rooms, each capacity of 40 cubic meters). According to: Guangzhou Green & Health Refrigeration Equipment Co., Ltd. | 83,500 |
| Storage cooling rooms (3 rooms) + 2 small freezers. Guangzhou Green & Health Refrigeration Equipment Co., Ltd. | 44,500 |
| Water tanks, 50 cubic meters | 5,200 |
| Fork lifts. (2) according to: Flurfördergeräte GmbH & Co. | 22,300 |
| Test equipment | 2,100 |
| Technical assistance | 2,650 |
| Total | 276,730 |

Table 7:

| Item | Cost(NIS) |
|------------------------|------------------|
| Building | 120,000 |
| Furniture | 3,000 |
| Equipment and supplies | 276,730 |
| Overhead | 2500 |
| Total | 402,230 |

Table 8 : Salary

| Job | NO.1st shift (month/month), other (month/month) | 12/12 the 8/12 | Salary/month (1person) | Salary/year |
|-------------------------------|--|-------------------------------|-----------------------------------|--------------------|
| Manager | 1 | | 3,000 | 3,000 |
| Secretary | 1 | | 1,900 | 1,900 |
| Accountant | 1 | | 1,500 | 1,500 |
| Marketing | 1 | | 1,900 | 1,900 |
| Engineer | 2 | | 2,000 | 4,000 |
| Cooling technician | 2 | | 1,900 | 3,800 |
| Labors | 12 | | 1,000 | 12,000 |
| Drivers | 2 | | 1,300 | 2,600 |
| Guard | 2 | | 1,000 | 2,000 |
| Total | 24 | | 15,500 | 372,000 |

Table 9 : Operational Costs

| Operation | Cost(NIS) |
|------------------------------|------------------|
| Land rent cost | 1,950 |
| 850 tons of fresh vegetables | 425,422 |
| Salaries | 372,000 |
| Critic Acid | 2,300 |
| Maintenance | 3,800 |
| Advertising | 5,000 |
| Packaging materials | 20,000 |
| Additional costs | 3,000 |
| Depreciation | 39,973 |
| Total | 873,445 |

Table 10 : Maximum capacity

| | Maximum capacity |
|-----------------|-------------------------|
| Pea | 70,000 |
| Corn | 88,000 |
| Hairocut | 60,000 |
| Okra | 55,000 |

Financial Study

Table 11 : Future Gross benefits , future Operational cost , and future net return

| | | Future GB | Future OC | Future NR |
|------|---------|-----------|-----------|-----------|
| Year | no.year | | | |
| 2015 | 1 | 2,153,410 | 873,445 | 1,279,965 |
| 2016 | 2 | 2,374,135 | 917,117 | 1,457,018 |
| 2017 | 3 | 2,617,483 | 962,973 | 1,654,511 |
| 2018 | 4 | 2,885,775 | 1,011,121 | 1,874,654 |
| 2019 | 5 | 3,181,567 | 1,061,677 | 2,119,890 |

- Annual cash flow = \$2,153,410.00 - \$873,444.63 = \$1,279,965.37
- The salvage value of the project is estimated to be 1,100,000 NIS.

—

Testing the feasibility of the project according to the following :

Calculated by Excel

| | |
|--|--------------------|
| NPV | 3,007,509 |
| IRR | 39.0% |
| PI | 1.94 |
| ARR | 0.52 |
| NARR | \$ 0.32 |
| Discounted ARR | 0.39 |
| Discounted NARR | 0.61 |
| Payback period | 2.280 |
| Discounted payback period | 2.503 |
| Benefit / Cost Ratio | 1.94 |
| Pay-off period Rate of return | 44% |

Sensitivity

—Sensitivity is attached in the project folders. It's calculated by using Excel.

WACC

—WACC is attached in the project folders. It's calculated by using Excel.

Breakeven Analysis

| Year | Quantity | Average Price for all Products | TR | TC | TFC | TVC | AFC | MR |
|------|----------|--------------------------------|-----------|-----------|---------|-----------|------|----|
| 1 | 215,911 | 10 | 2,159,110 | 873,445 | 444,153 | 429,292 | 2.06 | 10 |
| 2 | 226,707 | 10 | 2,267,066 | 917,117 | 444,153 | 917,117 | 1.96 | 10 |
| 3 | 238,042 | 10 | 2,380,419 | 962,973 | 444,153 | 962,973 | 1.87 | 10 |
| 4 | 249,944 | 10 | 2,499,440 | 1,011,121 | 444,153 | 1,011,121 | 1.78 | 10 |
| 5 | 262,441 | 10 | 2,624,412 | 1,061,677 | 444,153 | 1,061,677 | 1.69 | 10 |

| | |
|---|----------------|
| AVC | 2 |
| Breakeven quantity in term of physical units | 55,519 |
| Breakeven quantity in term of Sales revenue | 444,133 |

Financial Statements :

1- Income Statement

| Frozen vegetables Company | | |
|---|-----------------------|-----------------------|
| Income Statement | | |
| For the Year Ended Dec. 31, 2014 | | |
| | 2015 | 2014 |
| Sales | 2,153,410 | 2,015,800 |
| Cost of Goods Sold | 445,422 | 425,422 |
| Gross Profit | 1,707,988 | 1,590,378 |
| operational costs | 873,445 | 891,360 |
| EBIT | 834,543 | 699,018 |
| Interest Expenses | 1,500 | 1,300 |
| Earnings Before Taxes | 833,043 | 697,718 |
| Taxes | 333,217 | 279,087 |
| Net Income | <u>499,826</u> | <u>418,631</u> |

2- Balance sheet

| Frozen vegetable company Balance Sheet As of December 31, 2014 | | |
|--|-------------------------|-------------------------|
| | 2014 | 2015 |
| Assets | | |
| Cash | 150,282 | 280,500 |
| Accounts Receivable | 4,850 | 8,000 |
| Inventory | 650,000 | 355,000 |
| Total Current Assets | 805,132 | 643,500 |
| Fixed assets | 1,181,271 | 1,150,000 |
| Depreciation | 39,973 | 79,946 |
| Net Fixed Assets | 1,141,298 | 1,070,054 |
| Total Assets | <u>1,946,430</u> | <u>1,713,554</u> |
| Liabilities and Owner's Equity | | |
| Accounts Payable | 220,022 | 163,100 |
| Notes Payable | 436,808 | 314,454 |
| Accruals | 489,600 | 336,000 |
| Total Current Liabilities | 1,146,430 | 813,554 |
| Long Term Debts | 800,000 | 900,000 |
| Total Liabilities | 1,946,430 | 1,713,554 |
| Total Liabilities and Owner's Equity | <u>1,946,430</u> | <u>1,713,554</u> |

3- Cash Flow :

| Frozen vegetables Company Statement of Cash Flows For the Year Ended December 31, 2015 | | |
|--|----------------|-----------------|
| Cash Flows from Operations | | |
| net income | <u>499,826</u> | - |
| increase in A/R | -3,150 | |
| decrease in inventory | 195,000 | |
| decrease in A/P | -56,922 | |
| decrease in accruals | -153,600 | |
| Depreciation | 39,973 | |
| | | 521,127 |
| Cash Flows from Investing Activites | | |
| Decrease in fixed assets | 31,271 | |
| | | 31,271 |
| Cash Flows from Financing | | |
| decrease in N/P | -122,354 | |
| increase In long-term debt | 100,000 | |
| Dividends | -431,097 | |
| | | -453,451 |
| Net Change in Cash Balance | | 130,218 |

National feasibility study :

- **Added value**

Added Value is attached in the project folder. It's calculated by using Excel.

Conclusion

- Many problems were facing us when we studying the project , main of them are: Difficulties in statistical data collection , There is no ideal location with standard criteria's. , Limited skills and experience in our project , and governmental supporting weakness .
- We can add the following recommendations to make the project more efficient and successful they are :Encourage local and foreign investments in this field. Improve quality of vegetarian production. More opportunities for Industrial and agricultural engineers. And Governmental supports.

Recommendations

- We can add the following recommendations to make the project more efficient and successful they are : Encourage local and foreign investments in this field. Improve quality of vegetarian production. More opportunities for Industrial and agricultural engineers. And Governmental supports.