Agricultural Jihad Organization of Chahar Mahal and Bakhtiari province

Deputy of Planning and Economic Affairs

Suggested package of Construction of Jaghdan Dairy Cattle Complex

To attract investors through Provincial Investment Services Center

Consulting company:

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Tell: ٠٩١٧٩٩٦٢٠٧١-٠٩١٣٩٦٦٩٦٤٤

Abstract

١-Investment table

All numbers are in million rials					Cost(Euro)
Row	Description	Price	Done	Required	
١	land	٠	٠	٠	٠
٢	Landscaping	١٠٢،٥٩١	١،٨٠٠	١٠٠،٧٩١	١٨٣،٢٥٦
٣	Building	٢،٦٨٦،٩٤٤	٠	٢،٦٨٦،٩٤٤	٤،٨٨٥،٣٥٣
٤	Installations	٦١،٣٤٦	١،٣٥٠	٥٩،٩٩٦	١٠٩،٠٨٤
٥	Furniture and office supplies	٦،٣٨٧	٠	٦،٣٨٧	١١،٦١٢
٦	equipment and machinery	١٩٦،٨٦٠	٠	١٩٦،٨٦٠	٣٥٧،٩٢٦
٧	Buy heifers	١٠،٩٢٠	٠	١٠،٩٢٠	١٩،٨٥٥
٨	Vehicle	١،١٠٧،٦٠٠	٠	١،١٠٧،٦٠٠	٢،٠١٣،٨١٨
٩	Costs before operation	٦١،٣٠١	٠	٦١،٣٠١	١١١،٤٥٦
١٠	Unforeseen costs	٢١١،٦٩٧	٠	٢١١،٦٩٧	٣٨٤،٩٠٤
Total fixed investment costs		٤،٤٤٥،٦٤٦	٣،١٥٠	٤،٤٤٢،٤٩٦	٨،٠٧٧،٢٦٥
Capital in the first year's turnover		٢٦٤،٤٥١	٠	٢٦٤،٤٥١	٤٨٠،٨٢٠
Total investment of the plan		٤،٧١٠،٠٩٧	٣،١٥٠	٤،٧٠٦،٩٤٧	٨،٥٥٨،٠٨٦

All numbers are in million rials			
Description	Build time	Operation time	total
Total Financial source	٤،٤٤٢،٤٩٦	٢٦٤،٤٥١	٤،٧٠٦،٩٤٧
Total Financial source(Euro)	٨،٠٧٧،٢٦٥	٤٨٠،٨٢٠	٨،٥٥٨،٠٨٦

a) Payback Period(PP): ٤,١٠ year
b) Internal rate of return(IRR): ٢٦,٦٧ percent
c) Breakeven point: ٣١ percent
d) Net Present Value(NPV): ٩،٣٨٦،٧٣٥ million rials= ١٧،٠٦٦،٧٩١Euro
e) Value of Equipment and Machinery: ١٩٦،٨٦٠million rials= ٣٥٧،٩٢٦Euro

Currency calculation (Euro) this section uses the weighted average rate of currency purchase and sale based on transactions registered in the Senate Currency Monitoring System in January ٢٠٢٤. Accordingly, the exchange rate (Euro) of ٥٥٠،٠٠٠ Rials has been used as the basis for currency calculations (Source: https://www. .tgju.org /).

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Introduction

Chaharmahal and Bakhtiari province, with an annual production of ۲۱،۲۰۲ tons of red meat and ۲٤۸،۰۰۰ tons of milk, is the center of production of livestock products in the country. In this regard, the completion and construction of livestock complexes as a solution in strengthening the production of livestock products is considered by the Jihad Agricultural Organization of the province. The proposed package for the construction of the Jaghdan Dairy Cattle Breeding Complex has been prepared for this purpose. Jaghdan Dairy Cattle Breeding Complex with an area of ۳۲ hectares is located next to Jaghdan village in Kiar city. The complex is located ۸۵ km from the provincial capital. With ۱۵ liters of water per second, Jaghdan Complex has made almost ۲۰ percent physical progress.

Chapter ١:

Specifications of the project

١-١-location

Project scope is located in Jaghdan village and Naghan city in Chaharmahal va Bakhtiari province. The geographical coordinates of this location are as described in Table ١-١.

Table (١-١): Geographical coordinates of project implementation range

	Geographical Latitude	Geographical Longitude
١	٤٧٦٥٨٠	٣٥٣١٥٢٢
٢	٤٧٦٥٦٣	٣٥٣١٠٩٢
٣	٤٧٦٥٣٨	٣٥٣١٠٥٥
٤	٤٧٦٥٧٥	٣٥٣١٠٥٣
٥	٤٧٦٢٥٠	٣٥٣١١٠٠
٦	٤٧٦١٧٢	٣٥٣١٠٧٢
٧	٤٧٦٠٩٠	٣٥٣١٠٩٠
٨	٤٧٦٠٤١	٣٥٣١٠١٥
٩	٤٧٥٩٧٨	٣٥٣١٠٣٣
١٠	٤٧٥٨٣١	٣٥٣٠٩٨٠
١١	٤٧٥٧٢٢	٣٥٣١٠٦٩
١٢	٤٧٥٦٩٢	٣٥٣١١٥٣
١٣	٤٧٥٧٠٠	٣٥٣١٣٠٠
١٤	٤٧٥٨١٣	٣٥٣١٢٩٤
١٥	٤٧٦٠٩٠	٣٥٣١٣٥٥
١٦	٤٧٦٢٥٥	٣٥٣١٤٤٥
١٧	٤٧٦٣٧٠	٣٥٣١٥٤٥

Figure ١-١ shows the project execution site in Google Inheritance environment.

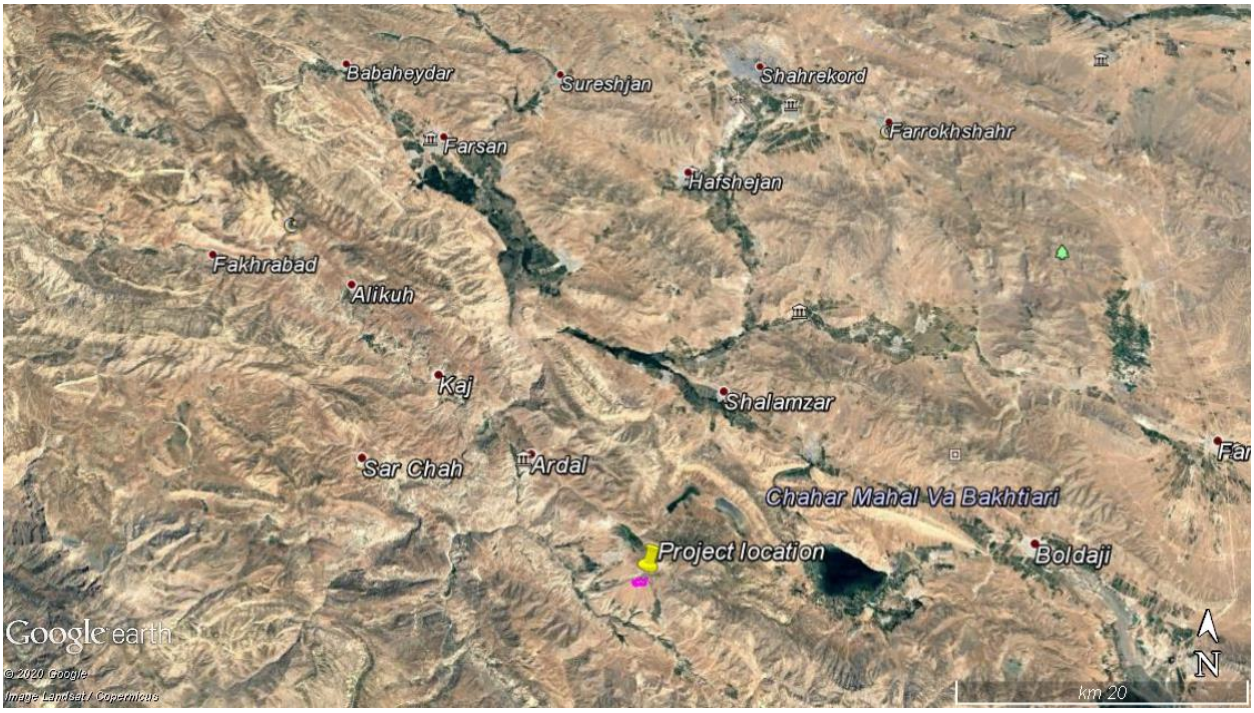


Figure (۱-۱): Location of Project

۲-۱- Access routes

The route shown in Table ۲-۱ can be used to access the project site from the provincial capital. Figure ۲-۱ also shows the following path.

Table (۲-۱): Access routes

Row	Beginning	Address	Destination	Distance(km)
۱	Shahrekord	Kiyan city- Taghanak city- Kharaji village- Shalamzar city- Gahru city- Naghan city- Jaghdan village	Jaghdan of Dairy Cattle farm complex	۸۵,۲



Figure (۲-۱): Access routes

۳-۱-Climate

Therefore, according to the coupon classification, the project site has a temperate, semi-humid cold climate. In this climate and according to the statistics recorded in the neighboring stations where the project is implemented, the most important climatic factors of the project implementation site are as described in Table ۳-۱.

Table (۳-۱): Climatic Factor

Climatic Factor	Mean
Temperature(c)	۲۷
Rain(mm)	۵۶۱
Relative Humid (%)	۲۳
The number of frosty days	۷۰

٤-۱- Physiographic specifications of the complex construction site

Figure ۳-۱ shows the slope map of the complex's construction site.

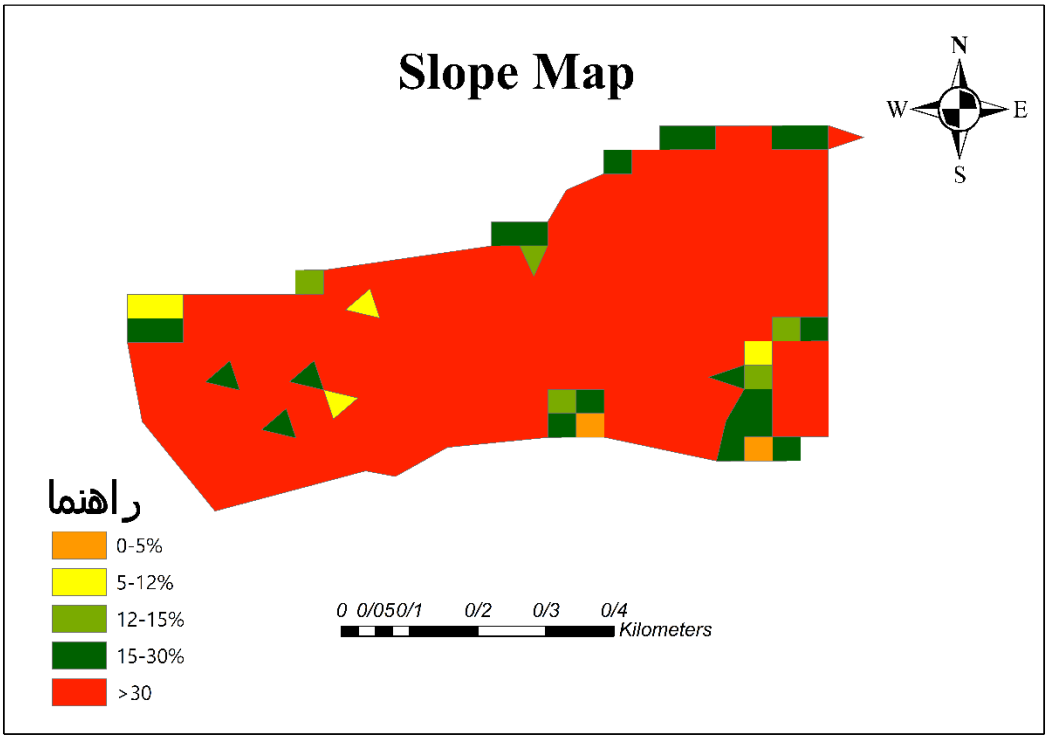


Figure (۳-۱): Slope map of the construction site of Jaghdan Dairy Cattle Complex

Table ٤-١ also shows the area of each slope of the complex location.

Table (٤-١): Slope class and area of each at the construction site of Jaghdan dairy cattle Complex

Slope (%)	Area(hectare)
۰_۵	۰,۲٤۵
۵_۱۲	۰,۵۳۵
۱۲_۱۵	۰,۵٦۸
۱۵_۳۰	۲,۳۹۱
۳۰>	۲۷,۱٦۲

• The average slope at the complex construction site is ۳۲,۰۸٪.

Figure ٤-١ shows elevation map of the complex's construction site.

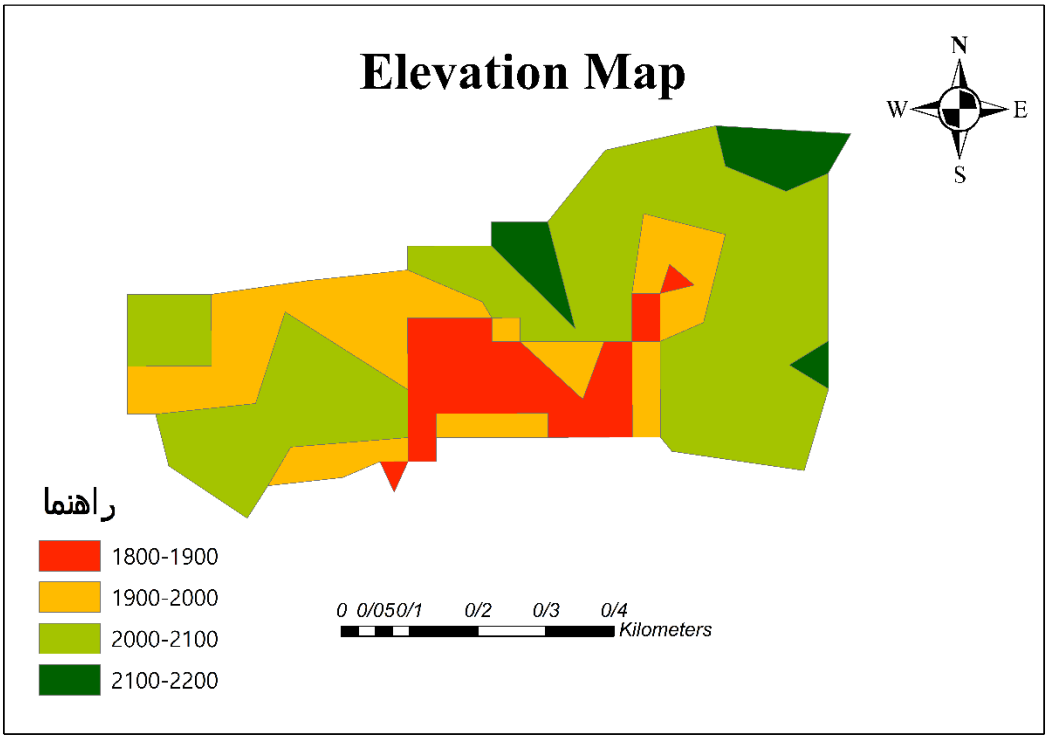


Figure (٤-١): elevation map of the construction site of Jaghdan Dairy Cattle Complex

Table ٥-١ also shows the area of each elevation.

Table (٥-١): The amount of height and area of each in the construction site of Jaghdan dairy cattle Complex

Elevation(meter)	Area(hectare)
١٨٠٠-١٩٠٠	٣,٨٨
١٩٠٠-٢٠٠٠	٧,٦٦
٢٠٠٠-٢١٠٠	١٧,٠٩
٢١٠٠-٢٢٠٠	١,٩٧

٥-١- The population of residential centers

The purpose of the residential population survey is to identify investors in the primary target markets for product sales as well as to provide the manpower and

equipment needed to continue operating. Hence, the closest residential centers to the design and population range of each are presented below (Table ٦-١).

Table (٦-١): The population of residential centers

Row	residential centers	Population(١٣٩٥)
١	Jaghdan village	٥٢٣
٢	Naghan city	١١٩٢٨
٣	Ardal city	١٠١١٣

٦-١- Access to infrastructure facilities

Table ٧-١ shows the status of each facility at the project site.

Table (٧-١): Access to infrastructure facilities

Equipment	Yes	No	Descriptions
Asphalt access road	*		
Access to human resources	*		Worker and specialist workforce
Water supply	*		Drilling wells has been done. The amount of water allocated is ١٥ liters per second
water distribution network		*	٦٠٠٠ m long intubation
Power grid	*		Power poles are installed (٦٤ poles) and the power grid is located downstream of the complex.
Gas supply network		*	Need to check the power of the station located above the complex. If the power of the station is responsible, all that is needed is piping within the project area. Execution of gas network and branches with an area of about ٤٠٠٠ meters.
Telecommunication network		*	

٧-١- Integrated License Status

Table ٨-١ shows the status of complex permissions

Table (٨-١): Status of Integrated Licenses

Type of license	Condition		
	Done	Ongoing	Undone
Well drilling permit	*		
License to build a power grid	*		
Gas license and gas supply network			*

• Due to the expiration of the deadlines for inquiries and the prolongation of the construction process of the complex, it is necessary to update the inquiries received.

Second chapter:

Specifications of dairy cattle complex

١-٢-Introduction

The construction of livestock complexes is always a necessity in the organization of livestock production. The construction of such complexes has many strengths and weaknesses, the most important of which are the following.

- **Necessities and strengths of the construction of livestock complexes**

  - Moving livestock from city level to the outskirts of cities and helping to improve sanitation in line with environmental issues
  - Helping people apply for investment by implementing infrastructure in the public sector and saving money
  - Applying appropriate management in complex production units in new ways (increasing productivity)
  - Ability to provide services in the field of animal health and better access to needed facilities
  - Creating suitable conditions for trading, marketing and supply of manufactured products

- **Problems and barriers to implementation of livestock complexes**

  - Ability to build livestock complexes only for cities above ٥٠،٠٠٠ (according to Resolution ٦١٨٣٦ dated ٥/٥/١٣٧٦)
  - No custodian of complexes after co-operative construction and failure to perform services
  - Beneficiaries' financial inability and their inability to attract facilities and provide guarantees to banks
  - Insufficient allocation of funds and prolonging the implementation process of projects
  - Lack of suitable land for project implementation
  - Low awareness of users
  - High expectation of the beneficiaries of the government

- Keeping unauthorized livestock and the social consequences of dealing with them
- Non-allocation of water by regional water
- Physical development without cities plan

۲-۲- Highlights of designing Livestock farm spaces

۱. Minimum distance between livestock structures and facilities with similar units, cities and towns, forests, rivers, seas, natural resources, airports, roads, railways, major oil and gas transmission lines, High voltage power grids, industrial units shall be in accordance with the standards and standards approved by the relevant entities. Unless in emergencies and with justifiable reasons, the Central Commission of the Ministry of Agriculture Jihad issues the necessary permission to reduce it.

۲. The location of livestock structures and installations should be as far as possible from the residential areas to the wind direction.

۳. The type of wall coverings should be such as to prevent the growth of a variety of parasites and infected bacteria, in addition to adequate resistance to possible livestock blows. Dense cementations procedures are suitable for this purpose.

٤. The roof of livestock sheds should be lightweight and inexpensive in addition to being resistant. Ceilings and walls should also be well insulated against heat and moisture.

٥. The material of heat and moisture insulation must be impermeable to prevent the growth of the parasite and the bacteria in it.

٦. The flooring of different areas shall be durable, durable, impermeable and non-slippery. They also have a good slope depending on the type of livestock, surface water guidance, etc.

۷. Light and good ventilation have a positive effect on improving productivity, so choosing the right structure and shape for the hulls is important.

۸. The area of livestock shelters, moorings, moorings, watercourses and corridors should be tailored to the type, breed and number of livestock.

۹. Appropriate height of the roof of livestock nesting sites is selected and designed according to the type, breed and number of livestock as well as temperature conditions of the site area.

٣-٢- Important structural tips in the design and construction of industrial livestock complexes

١- Design of nests should be such that, in addition to the relevant standards, the lightest and cheapest type of nest is provided to the breeder.

٢- These nests must have a strong and secure structure against heavy loads, earthquakes, winds, snow and so on.

٣- Proper distance between the animal storage nesting grounds will protect the animals against contagious animal diseases.

٤- Different types of livestock nests are: light truss nests, tree nests and UBM nests that are selected depending on the area required and the length of the nest crater. UBM nests (UBMs) are not recommended for livestock breeders because they use polyurethane materials that are insoluble in the roof, which increases the growth of bacteria and parasites due to their pores. They are coming back.

٥- Designing, locating and manufacturing various parts of a livestock industrial complex including a pharmacy and a hospital, maternity and infant nursing home, office and residential buildings needed, waiting and milking halls, milk collection facilities and milk coolers. Accompanied by a greenhouse complex, forage platform (non-standing) or forage hangar (roofed warehouse) - depending on weather conditions and climatic conditions of the site -, sewage collection and disposal system, livestock waste collection system, etc. must meet standards, breeder needs and the environmental and geographical conditions of the area will be the construction of livestock complex.

٤-٢- Principles of establishing a dairy farm

١. Capacity: The capacity of the new dairy farm should not be less than ٢٠ and more capacities are set out below.

- ✓ Small units with a capacity of ٢٠ to ٥٠ cows
- ✓ Medium units with a capacity of ٥١ to ١٥٠ cows
- ✓ Large units with a capacity of ١٥١ to ٣٠٠ cows

- ✓ Very large units with a capacity of more than ۳۰۰ breeding cows (up to ۵۰۰)

۲. Land: The minimum land required to establish dairy farms is specified in terms of the amount specified in the accompanying drawings.

Required crop (definitive purchase, lease, lease at least ۲۵ years) for forage crop cultivation of one hectare for genuine cattle, one hectare for ۳ cattle and crossbred and one hectare for ٤ native cattle, which can at least One-third of the total food supply of livestock needs to be met. The rest is provided by the farmer through dense food.

Note: In Gilan, Mazandaran, Gorgan and Gonbad areas, the amount of land required can be reduced by up to ۳۰٪ (e.g., ۰،۷ ha for two genuine cows).

۳-Map and Location: For the maintenance and breeding of dairy cattle, type maps for capacities of ۱۰-۲۰-۳۰-۵۰-۷۵-۱۰۰ for cold, tropical and temperate climates are described, predicted and plotted. The computational fundamentals of the maps have been determined on the basis of each cattle head and the average useful land area needed for one head of cattle is ۱۵،٦ m ۲ and ۱۹،۵ m ۲ non-roofed.

Note ۱: Ancillary structures of dairy farms up to one hundred cattle capacity shall be designed and designed in accordance with the established criteria and from the capacity of one hundred cattle upwards, for each hundred cows of additional cattle capacity, the useful footprint area required may be increased as follows.

- ✓ ۱۵ Pharmacy and hospital ۱۵٪
- ✓ Calves and maternity ۵۰٪
- ✓ ۳۰ Office and Administration and Residential Office ۳۰٪
- ✓ Waiting lounge, milking parlor, cattle ۵۰٪
- ✓ Collection and cooling tap with machine shop

Other buildings should also be designated as useful infrastructure and increased in proportion to the capacity of the cattle unit.

Note ۲: Depending on the weather conditions and climatic conditions in different parts of the country, according to the provincial licensing commission's opinion, a warehouse or a forage (roof) may be used instead of a forage platform.

Note ۳: In very cold areas, where the manger and the feed corridor are below the ceiling, the area of non-useful infrastructure may be increased by up to ۲۰٪ from the designated amount.

٤. Intervals: Observing intervals for dairy establishments, according to the Intervals Schedule, is required in addition to the Comprehensive Livestock System.

Chapter ٣:

Investment and technical justification of the plan

۱-۳- Fixed costs

Table (۱-۳): The land

All numbers are in million rials								
Row	Description	Unit	Ownership type	Value	Unit price	Total price	The final cost	Cost to Euro
۱	Land	Hectare	-	۳۲	۰	۰	۰	۰
Total							۰	۰

Table (۲-۳): Landscaping

All numbers are in million rials									Cost(Euro)
Row	Description	Description	Value	Unit	Unit price(Rials)	Total price	Done	Required	
۱	Excavation and leveling	-	۲۰۰،۰۰۰	$M^۲$	۳۱،۲۰۰	٦،۲٤۰	۰	٦،۲٤۰	۱۱،۳٤٥
۲	Street killings inside the complex	۷. The main street in the whole complex with an area of about ۳۰۰۰ square meters of leveling and flooring with sand has been done.	۳۰،۰۰۰	$M^۲$	۲،٤۹٦،۰۰۰	۷٤،۸۸۰	۳،۰۰۰	۷۱،۸۸۰	۱۳۰،٦۹۱
۳	Seasonal water disposal table	- Construction of sidewalks, infrastructure and asphalt	۲،٥۰۰	Meter	۲،٦٥۲،۰۰۰	٦،٦۳۰	۲،۱۲٥	٤،٥۰٥	۸،۱۹۱
٤	Fencing the carcass area	-	٤،٥۰۰	$M^۲$	۷۸۰،۰۰۰	۳،٥۱۰	۱،۱۲٥	۲،۳۸٥	٤،۳۳٦

٥	Landscaping Installation of carcass kilns	Direct the wastewater and rainwater of the complex to the outside with a width of ١,٥ meters and a depth of ١ meter of concrete	٨٠٠	M٢	٧٤٨،٨٠٠	٥٩٩	١٩٢	٤٠٧	٧٤٠
٦	Excavation and landscaping of fertilizer collection site	Fence height ٢ with metal base	٢٥،٠٠٠	M٢	٣١،٢٠٠	٧٨٠	٢٥٠	٥٣٠	٩٦٤
٧	Open space quarantine complex	-	٤٠٠	M٢	٤،٢١٢،٠٠٠	١،٦٨٥	٥٤٠	١،١٤٥	٢،٠٨١
٨	green space	-	٦٤،٠٠٠	M٢	٣١،٢٠٠	١،٩٩٧	٦٤٠	١،٣٥٧	٢،٤٦٧
٩	Fencing (fences ٢ meters high)	Landscaping, fencing and construction	٦٤،٠٠٠	M٢	٢،١٢١،٦٠٠	١٣٥،٧٨٢	٤٣،٥٢٠	٩٢،٢٦٢	١٦٧،٧٥٠
	Total						٤٨،٣٩٢	١٠٢،٥٩١	٣٢٨،٥٦٦

Table (٣-٣): Building

	All numbers are in million rials							Cost(Euro)
Row	Description	Value	Unite	Unit price(Rials)	Total price	Done	Required	
١	Open stables	٤٠،٠٠٠	M٢	٢٤،٩٦٠،٠٠٠	٩٩٨،٤٠٠	٠	٩٩٨،٤٠٠	١،٨١٥،٢٧٣
٢	Hedgehog and dry place	١٧،٠٠٠	M٢	٢٤،٩٦٠،٠٠٠	٤٢٤،٣٢٠	٠	٤٢٤،٣٢٠	٧٧١،٤٩١
٣	Calf position	٨،٠٠٠	M٢	٢٤،٩٦٠،٠٠٠	١٩٩،٦٨٠	٠	١٩٩،٦٨٠	٣٦٣،٠٥٥

٤	Maternity ward and clinic	١،٥٠٠	M٢	٢٤،٩٦٠،٠٠٠	٣٧،٤٤٠	٠	٣٧،٤٤٠	٦٨،٠٧٣
٥	Milking room	١،٢٠٠	M٢	٣٧،٤٤٠،٠٠٠	٤٤،٩٢٨	٠	٤٤،٩٢٨	٨١،٦٨٧
٦	barnyard	٤٠،٠٠٠	M٢	٢،٣٤٠،٠٠٠	٩٣،٦٠٠	٠	٩٣،٦٠٠	١٧٠،١٨٢
٧	Concentrate warehouse	٦،٠٠٠	M٢	٣٧،٤٤٠،٠٠٠	٢٢٤،٦٤٠	٠	٢٢٤،٦٤٠	٤٠٨،٤٣٦
٨	Fodder warehouse	٤،٠٠٠	M٢	٣٧،٤٤٠،٠٠٠	١٤٩،٧٦٠	٠	١٤٩،٧٦٠	٢٧٢،٢٩١
٩	Corn silo	٦،٠٠٠	M٢	١٧،١٦٠،٠٠٠	١٠٢،٩٦٠	٠	١٠٢،٩٦٠	١٨٧،٢٠٠
١٠	Integrated electrical installation control building	٥٠	M٢	٣٧،٤٤٠،٠٠٠	١،٨٧٢	٠	١،٨٧٢	٣،٤٠٤
١١	Complex security building	٢٠	M٢	٤٦،٨٠٠،٠٠٠	٩٣٦	٠	٩٣٦	١،٧٠٢
١٢	Worker building	١٢٠	M٢	٤٦،٨٠٠،٠٠٠	٥،٦١٦	٠	٥،٦١٦	١٠،٢١١
١٣	Office building and complex management	١٥٠	M٢	٥٦،١٦٠،٠٠٠	٨،٤٢٤	٠	٨،٤٢٤	١٥،٣١٦
١٤	Complex clinic building, quarantine and animal health	٢٠٠	M٢	٦٢،٤٠٠،٠٠٠	١٢،٤٨٠	٠	١٢،٤٨٠	٢٢،٦٩١
١٥	Complex warehouses (cereals and food)	١٠،٠٠٠	M٢	٣٧،٤٤٠،٠٠٠	٣٧٤،٤٠٠	٠	٣٧٤،٤٠٠	٦٨٠،٧٢٧
١٦	Machinery warehouse and parking	٤٠٠	M٢	١٨،٧٢٠،٠٠٠	٧،٤٨٨	٠	٧،٤٨٨	١٣،٦١٥
Total						٠	٢،٦٨٦،٩٤٤	٤،٨٨٥،٣٥٣

Table (٤-٣): Installations

All numbers are in million rials									Cost(Euro)
Row	Description	Description	Value	Unit	Unit price(Rials)	Total price	Done	Required	
١	Run the power grid	In total, the ٤،٠٠٠-meter complex requires a power grid. ٦٤ cement beams have been planted at the beginning of the complex	-	Meter	-	٩،١١٠	١،٣٥٠	٧،٧٦٠	١٤،١١٠
٢	Network start relay device	-	١	Device	٥،٣٠٤،٠٠٠،٠٠٠	٥،٣٠٤	٠	٥،٣٠٤	٩،٦٤٤
٣	Execution of gas network	The gas station is adjacent to the complex and there is no need to transfer gas from the station to the complex.	٤٠٠٠	Meter	٢،١٨٤،٠٠٠	٢،١٨٤	٠	٢،١٨٤	٣،٩٧١
٤	Implementation of water supply network	From well to Nagan-Jaghdan road, ٣٥٠٠ meters	٣٥٠٠	Meter	٢،٦٥٢،٠٠٠	٩،٢٨٢	٠	٩،٢٨٢	١٦،٨٧٦
		Water network inside the complex is ٤٠٠٠ meters	٤٠٠٠	Meter	٢،١٨٤،٠٠٠	٨،٧٣٦	٠	٨،٧٣٦	١٥،٨٨٤
٥	Water pumping	Including construction of privacy wells, construction of ٣ water storage sources with a capacity of ١٠٠٠ cubic meters and	٤٠٠٠	Meter	٢٨،٠٨٠	٠	٢٨،٠٨٠	٥١،٠٥٥	١١،٢٠٠

		water pumping equipment							
Total							١،٣٥٠	٦١،٣٤٦	١١١،٥٣٩

Table (٥-٣): equipment and machinery

All numbers are in million rials								Cost(Euro)
Row	Description	Value	Unite	Unit price(Rials)	Total price	Done	Required	
١	breast pump	٥٠	Device	٧٨٠،٠٠٠،٠٠٠	٣٩،٠٠٠	٠	٣٩،٠٠٠	٧٠،٩٠٩
٢	Mixer mill and elevator	٥	Device	٥٩٢،٨٠٠،٠٠٠	٢،٩٦٤	٠	٢،٩٦٤	٥،٣٨٩
٣	Without carrying milk	٢٥٠	Device	٦،٢٤٠،٠٠٠	١،٥٦٠	٠	١،٥٦٠	٢،٨٣٦
٤	Basque restraint of cattle	١٠٠	Device	٥٣٠،٤٠٠،٠٠٠	٥٣،٠٤٠	٠	٥٣،٠٤٠	٩٦،٤٣٦
٥	Flamethrower	٢	Device	٤٣،٦٨٠،٠٠٠	٨٧	٠	٨٧	١٥٩
٦	Free Steel	٢،٠٠٠	Device	٣١،٢٠٠،٠٠٠	٦٢،٤٠٠	٠	٦٢،٤٠٠	١١٣،٤٥٥
٧	Neck lock	٢،٠٠٠	Device	١٤،٠٤٠،٠٠٠	٢٨،٠٨٠	٠	٢٨،٠٨٠	٥١،٠٥٥
٨	Sprayer	٢	Device	٩٠،٤٨٠،٠٠٠	١٨١	٠	١٨١	٣٢٩
٩	Artificial insemination supplies	٤	Device	٤٦٨،٠٠٠،٠٠٠	١،٨٧٢	٠	١،٨٧٢	٣،٤٠٤
١٠	Carcass incinerator	١	Device	٤،٠٥٦،٠٠٠،٠٠٠	٤،٠٥٦	٠	٤،٠٥٦	٧،٣٧٥
١١	Weighing (٦٠ tons with guard room and equipment)	١	Device	٣،٦١٩،٢٠٠،٠٠٠	٣،٦١٩	٠	٣،٦١٩	٦،٥٨٠
	Total					٠	١٩٦،٨٦٠	٣٥٧،٩٢٦

Table (٦-٣): vehicles

All numbers are in million rials							
Row	Description	Number	Unite	Total price	Done	Required	Cost(Euro)
١	Tractors and accessories	١	١٠،٩٢٠،٠٠٠،٠٠٠	١٠،٩٢٠	٠	١٠،٩٢٠	١٩،٨٥٥
Total						١٠،٩٢٠	١٩،٨٥٥

Table (٧-٣): Furniture and office supplies

All numbers are in million rials								
Row	Description	Number	Unite	Unite price	Total price	Done	Required	Cost(Euro)
١	Computers and accessories	٤	Number	٣١٢،٠٠٠،٠٠٠	١،٢٤٨	٠	١،٢٤٨	٢،٢٦٩

۲	office furniture	۳	Set	۷۸،۰۰۰،۰۰۰	۲۳٤	۰	۲۳٤	٤۲٥
۳	File and closet	۳	Number	۱۷،۱٦۰،۰۰۰	٥۱	۰	٥۱	۹٤
٤	Refrigerator and stove	۳	Device	٤٦۸،۰۰۰،۰۰۰	۱،٤۰٤	۰	۱،٤۰٤	۲،٥٥۳
٥	Stationery and calculator	٥	Set	۱٥،٦۰۰،۰۰۰	۷۸	۰	۷۸	۱٤۲
٦	Cleaning supplies and water supply	٥	Set	۹،۳٦۰،۰۰۰	٤۷	۰	٤۷	۸٥
۷	Network equipment	۱	Device	۹،۳٦۰،۰۰۰	۹	۰	۹	۱۷
۸	Telephone-fax	٥	Device	٤۸،۳٦۰،۰۰۰	۲٤۲	۰	۲٤۲	٤٤۰
۹	Furniture and catering and office supplies	۳	Set	۱٤۰،٤۰۰،۰۰۰	٤۲۱	۰	٤۲۱	۷٦٦
۱۰	Medical and safety equipment	۱	Set	٤٦۸،۰۰۰،۰۰۰	٤٦۸	۰	٤٦۸	۸٥۱
۱۱	Staff rest room accessories	۲	Set	۱،۰۹۲،۰۰۰،۰۰۰	۲،۱۸٤	۰	۲،۱۸٤	۳،۹۷۱
Total						۰	٦،۳۸۷	۱۱،٦۱۲

Table (۸-۳): Buy heifers

All numbers are in million rials								
Row	Description	Number	Unite	Unite price	Total price	Done	Required	Cost(Euro)
۱	Buy heifers	۲،۰۰۰	Number	٥۳۰،٤۰۰،۰۰۰	۱،۰۰٦۰،۸۰۰	۰	۱،۰٦۰،۸۰۰	۱،۹۲۸،۷۲۷
۲	Spawning bull	۱۰۰	Number	٤٦۸،۰۰۰،۰۰۰	٤٦،۸۰۰	۰	٤٦،۸۰۰	۸٥،۰۹۱
Total						۰	۱،۱۰۷،٦۰۰	۲،۰۱۳،۸۱۸

Table (۹-۳): Cost before operation

All numbers are in million rials					
Row	Description	Total price	Done	Required	Cost(Euro)
۱	۲٪ fixed investment	٦۱،۳۰۱	۰	٦۱،۳۰۱	۱۱۱،٤٥٦
Total			۰	٦۱،۳۰۱	۱۱۱،٤٥٦

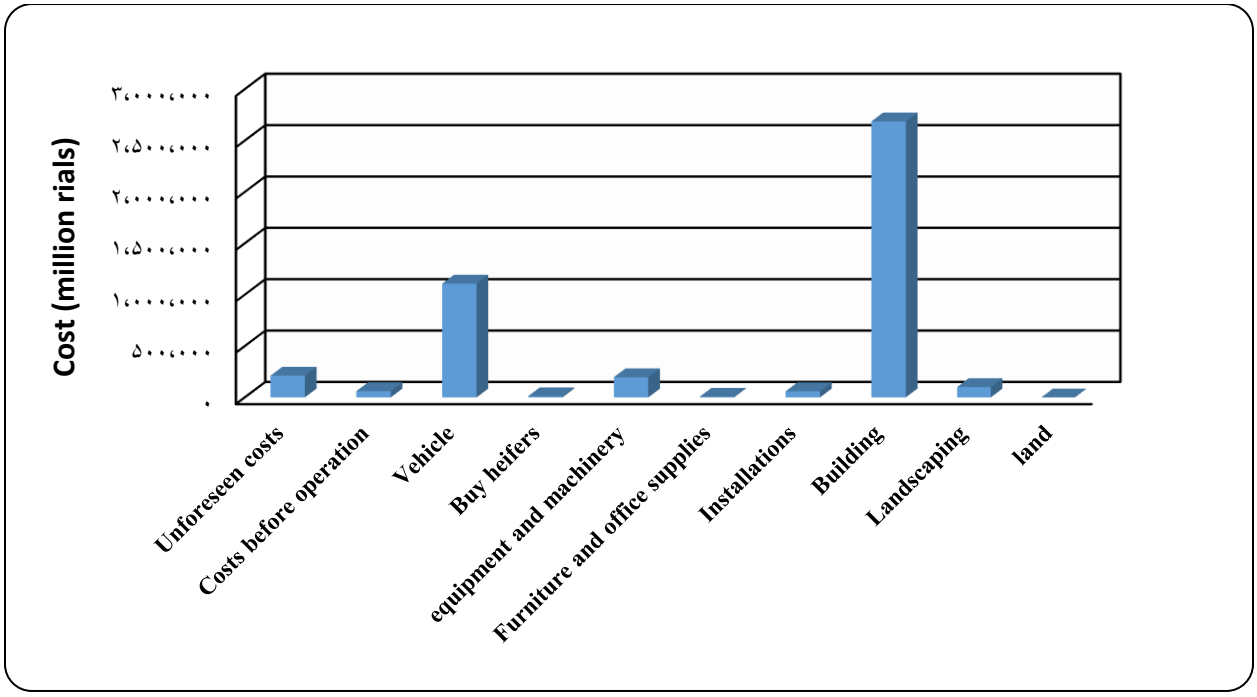


Figure (١-٣): Project Investment Cost Ratio

٢-٣- Plan investment

Table (١٠-٣): Summary investment plan

All numbers are in million rials					Cost(Euro)
Row	Description	Price	Done	Required	
١	land	٠	٠	٠	٠
٢	Landscaping	١٠٢،٥٩١	١،٨٠٠	١٠٠،٧٩١	١٨٣،٢٥٦
٣	Building	٢،٦٨٦،٩٤٤	٠	٢،٦٨٦،٩٤٤	٤،٨٨٥،٣٥٣
٤	Installations	٦١،٣٤٦	١،٣٥٠	٥٩،٩٩٦	١٠٩،٠٨٤
٥	Furniture and office supplies	٦،٣٨٧	٠	٦،٣٨٧	١١،٦١٢
٦	equipment and machinery	١٩٦،٨٦٠	٠	١٩٦،٨٦٠	٣٥٧،٩٢٦
٧	Buy heifers	١٠،٩٢٠	٠	١٠،٩٢٠	١٩،٨٥٥
٨	Vehicle	١،١٠٧،٦٠٠	٠	١،١٠٧،٦٠٠	٢،٠١٣،٨١٨
٩	Costs before operation	٦١،٣٠١	٠	٦١،٣٠١	١١١،٤٥٦
١٠	Unforeseen costs	٢١١،٦٩٧	٠	٢١١،٦٩٧	٣٨٤،٩٠٤
Total fixed investment costs		٤،٤٤٥،٦٤٦	٣،١٥٠	٤،٤٤٢،٤٩٦	٨،٠٧٧،٢٦٥
Capital in the first year's turnover		٢٦٤،٤٥١	٠	٢٦٤،٤٥١	٤٨٠،٨٢٠
Total investment of the plan		٤،٧١٠،٠٩٧	٣،١٥٠	٤،٧٠٦،٩٤٧	٨،٥٥٨،٠٨٦

Table (۱۱-۳): How to get funding to complete the project

All numbers are in million rials			
Description	Build time	Operation time	total
Total Financial source	٤،٤٤٢،٤٩٦	٢٦٤،٤٥١	٤،٧٠٦،٩٤٧
Total Financial source(Euro)	٨،٠٧٧،٢٦٥	٤٨٠،٨٢٠	٨،٥٥٨،٠٨٦

Table (۱۲-۳): Working capital

All numbers are in million rials											
Year											
Description	Period	First year	Second year	Third year	Forth year	Fifth year	Sixth year	Seventh year	Eightieth year	Ninth year	Tenth year
Raw material	٣٠	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣	٢١٩،٨١٣
Fuel and energy	٣٠	١،١٢٣	١،١٢٣	١،١٢٣	١،١٢٣	١،١٢٣	١،١٢٣	١،١٢٣	١،١٢٣	١،١٢٣	١،١٢٣
salary	٣٠	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩	٤،٣٤٩
Repair and maintenance	٣٠	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨	٥،٢٩٨
Depreciation	٣٠	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩	٢٧،٣٥٩
Sales costs	٣٠	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢	٥،٦٧٢
Total working capital required		٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥	٢٦٣،٦١٥
Annual increase in working capital		٢٦٣،٦١٥	٠	٠	٠	٠	٠	٠	٠	٠	٠
Working capital (EUR)		٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠	٤٧٩،٣٠٠

۳-۳- Plan variable costs

Table (۱۳-۳): The cost of the main raw materials

All numbers are in million rials						
Row	Description	Unite	Value	Unite price	Total price	Cost(Euro)
۱	Animal feed	Tone	۳۵،۰۰۰	۲،۶۲۰،۸۰۰	۲،۶۲۰،۸۰۰	۴،۷۶۵،۰۹۱
۲	Medicine and hygiene and disinfection	Number	۲،۰۰۰	۷،۴۸۸	۷،۴۸۸	۱۳،۶۱۵
۳	The cost of artificial insemination	Number	۲،۰۰۰	۸،۷۳۶	۸،۷۳۶	۱۵،۸۸۴
۴	Cost of numbering and registration of details	Number	۲،۰۰۰	۷۴۹	۷۴۹	۱،۳۶۱
Total					۲،۶۳۷،۷۷۳	۴،۷۹۵،۹۵۱

Table (۱۴-۳): Fuel and energy costs

All numbers are in million rials							
Row	Description	Annual consumption	Unite	Value	Unite price	Total price	Cost(Euro)
۱	consuming water	۳۰۰،۰۰۰	M^3	۱۰،۰۰۰	۳،۰۰۰	۳،۰۰۰	۵،۴۵۵
۲	Power consumption	۱۵۷،۵۰۰	KW	۴،۲۵۲	۶۷۰	۶۷۰	۱،۲۱۸
۳	Fuel (city gas)	۲۲۵،۰۰۰	M^3	۱،۱۰۰	۲۴۸	۲۴۸	۴۵۱
۴	Petrol	۳،۵۰۰	Liter	۳۰،۰۰۰	۱۰۵	۱۰۵	۱۹۱
۵	Phone	۷۲۰،۰۰۰	Minute	۳۳۰	۲۳۸	۲۳۸	۴۳۳
۶	Internet	۲،۸۰۰	GB	۲۱،۸۰۰	۶۱	۶۱	۱۱۱
	Total					۴،۳۲۱	۷،۸۵۶

Table (۱۵-۳): salary

All numbers are in million rials						
Row	Description	Number	Monthly salary for each person (thousand Rials)	Monthly salary(thousand Rials)	yearly salary	Cost(Euro)
۱	Livestock Manager	۱	۲۴۹،۶۰۰	۲۴۹،۶۰۰	۲،۹۹۵	۵،۴۴۶
۲	Integrated part-time veterinarian	۱	۱۲۴،۸۰۰	۱۲۴،۸۰۰	۱،۴۹۸	۲،۷۲۳
۳	manual worker	۴۰	۷۴،۸۸۰	۳،۷۴۴،۰۰۰	۴۴،۹۲۸	۸۱،۶۸۷
yearly salary					۴۹،۴۲۱	۸۹،۸۵۶
Employer share insurance equals ۲۳٪ of annual salaries and benefits					۱۱،۳۶۷	۲۰،۶۶۷
Total salaries and benefits of production personnel					۶۰،۷۸۸	۱۱۰،۵۲۳
۴	Managing Director	۲۴۹،۶۰۰	۲۴۹،۶۰۰	۲،۹۹۵	۵،۴۴۶	۲،۹۰۹
۵	Accountants	۷۴،۸۸۰	۷۴،۸۸۰	۸۹۹	۱،۶۳۴	۸۷۳
۶	Guard	۷۴،۸۸۰	۱۴۹،۷۶۰	۱،۷۹۷	۳،۲۶۷	۱،۷۴۵
۷	Secretary	۷۴،۸۸۰	۷۴،۸۸۰	۸۹۹	۱،۶۳۴	۸۷۳
۸	Driver	۷۴،۸۸۰	۱۴۹،۷۶۰	۱،۷۹۷	۳،۲۶۷	۱،۷۴۵
۹	Butler	۷۴،۸۸۰	۱۴۹،۷۶۰	۱،۷۹۷	۳،۲۶۷	۱،۷۴۵
yearly salary					۱۰،۱۸۴	۱۸،۵۱۶
Employer share insurance equals ۲۳٪ of annual salaries and benefits					۲،۳۴۲	۴،۲۵۹
Total salaries and benefits of production personnel					۱۲،۵۲۶	۲۲،۷۷۴
Total annual salaries and benefits of all staff (۸۶ people)					۷۳،۳۱۴	۱۳۳،۲۹۷

Table (١٦-٣): maintenance cost

	All numbers are in million rials				
Row	Description	Asset value	Rate (%)	Cost	Cost(Euro)
١	Landscaping	١٠٢،٥٩١	٠,٠٢	٢،٠٥٢	٣،٧٣١
٢	Building	٢،٦٨٦،٩٤٤	٠,٠٢	٥٣،٧٣٩	٩٧،٧٠٧
٣	Facilities	٦١،٣٤٦	٠,٠٥	٣،٠٦٧	٥،٥٧٧
٤	machinery	١٩٦،٨٦٠	٠,٠١	١،٩٦٩	٣،٥٧٩
٥	Office Supplies	٦،٣٨٧	٠,٠٥	٣١٩	٥٨١
٦	vehicles	١٠،٩٢٠	٠,١٠	١،٠٩٢	١،٩٨٥
Total		٣،٠٦٥،٠٤٨	-	٦٢،٢٣٨	١١٣،١٦٠

Table (١٧-٣): Cost of depreciation

	All numbers are in million rials				
Row	Description	Asset value	Rate (%)	Cost	Cost(Euro)
١	Landscaping	١٠٢،٥٩١	٠,٠١	١،٠٢٦	١،٨٦٥
٢	Building	٢،٦٨٦،٩٤٤	٠,١٠	٢٦٨،٦٩٤	٤٨٨،٥٣٥
٣	Facilities	٦١،٣٤٦	٠,١٠	٦،١٣٥	١١،١٥٤
٤	machinery	١٩٦،٨٦٠	٠,١٠	١٩،٦٨٦	٣٥،٧٩٣
٥	Office Supplies	٦،٣٨٧	٠,١٠	٦٣٩	١،١٦١
٦	Vehicle interface	١٠،٩٢٠	٠,٢٠	٢،١٨٤	٣،٩٧١
٧	Unforeseen costs	٢١١،٦٩٧	٠,١٠	٢١،١٧٠	٣٨،٤٩٠
Cost of depreciation of fixed assets		٣،٢٧٦،٧٤٥	-	٣١٩،٥٣٣	٥٨٠،٩٧٠
Cost before operation		٦١،٣٠١	٠,١	٦،١٣٠	١١،١٤٦
Total		٣،٣٣٨،٠٤٦	-	٣٢٥،٦٦٣	٥٩٢،١١٥

Table (١٨-٣): Administrative cost

All numbers are in million rials			Cost(Euro)
Row	Description	Total cost	
١	Product sales costs (١٪ sales)	٣٩،٤٩٥	٧١،٨١٠
٢	Administrative and organizational costs (١٥٪ sales)	١٩،٧٤٨	٣٥،٩٠٥
٣	Fixed asset insurance (٢ per thousand asset value)	٨،٨١٥	١٦،٠٢٧
Total		٦٨،٠٥٨	١٢٣،٧٤١

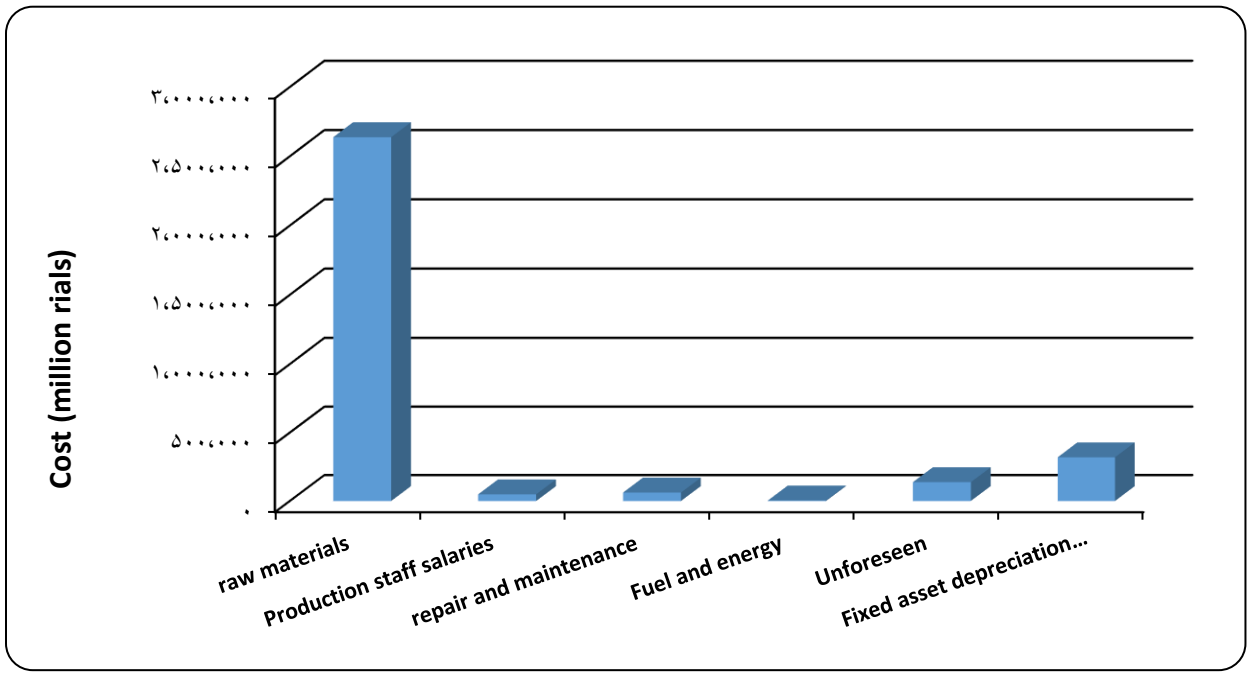


Figure (٢-٣): Project Production Cost Ratio

٤-٣- Total cost

Table (١٩-٣): Product cost (direct costs)

All numbers are in million rials										
Year	First year	Second year	Third year	Fourth year	Fifth year	Sixth year	Seventh year	Eightiet h year	Ninth year	Tenth year
Percentage of expected capacity	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪
raw materials	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣	٢،٦٣٧،٧٧٣
Production staff salaries	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥	٤٨،٨٦٥
repair and maintenanc e	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨	٦٢،٢٣٨
Fuel and energy	٤،١٤٨	٤،١٤٨	٤،١٤٨	٤،١٤٨	٤،١٤٨	٤،١٤٨	٤،١٤٨	٤،١٤٨	٤،١٤٨	٤،١٤٨
Unforeseen (٥٪ of the above items)	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١	١٣٧،٦٥١
Fixed asset depreciatio n expense	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣
Total cost of goods	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩	٣،٢١٠،٢٠٩
Total cost	٥،٨٣٦،٧٤	٥،٨٣٦،٧٤	٥،٨٣٦،	٥،٨٣٦،	٥،٨٣٦،	٥،٨٣٦،	٥،٨٣٦،٧٤٣	٥،٨٣٦،	٥،٨٣٦،	٥،٨٣٦،

(Euro)	٣	٣	٧٤٣	٧٤٣	٧٤٣	٧٤٣		٧٤٣	٧٤٣	٧٤٣

Table (٢٠-٣): Operating costs

All numbers are in million rials										
Year	First year	Second year	Third year	Fourth year	Fifth year	Sixth year	Seventh year	Eightieth year	Ninth year	Tenth year
The salary of the administrative staff	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦	١٢،٣٣٦
Sale and Distribution	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١	٣٧،٥٢١
Administrative and organizational	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦	١٩،٧٤٦
Depreciation of costs before operation	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠
Total Operating Costs	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤	٧٥،٧٣٤
Total Operating Costs (Euro)	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩	١٣٧،٦٩٩

Table (٢١-٣): Non-operating costs

All numbers are in million rials										
Year	First year	Second year	Third year	Fourth year	Fifth year	Sixth year	Seventh year	Eightieth year	Ninth year	Tenth year
Fixed asset insurance (٠،٠٢٪ fixed asset)	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤
Total non-operational costs	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤	٨،٨١٤
Total non-operational costs(Euro)	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥	١٦،٠٢٥

٥-٣- Sale Plan

Table (٢٢-٣): Sale plan

All numbers are in million rials										
Description	First year	Second year	Third year	Fourth year	Fifth year	Sixth year	Seventh year	Eightieth year	Ninth year	Tenth year
Production capacity	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪	٩٥٪
Value of milk produced per year	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠	٢،٩٦٠،٨٨٠
The value of fertilizer production	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠	١٢،٤٨٠
The value of knockout beef production	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠	٢٥٧،٤٠٠
Sale value of knockout male beef	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠	٩٢٦،٦٤٠
The selling value of heifers	٠	٨٤،٨٦٤	١٦٩،٧٢٨	١٦٩،٧٢٨	١٦٩،٧٢٨	١٦٩،٧٢٨	١٦٩،٧٢٨	١٦٩،٧٢٨	١٦٩،٧٢٨	١٦٩،٧٢٨
Total sales	٤،١٥٧،٤٠٠	٤،٢٤٢،٢٦٤	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨
Total sales, based on capacity	٣،٩٤٩،٥٣٠	٤،٠٣٠،١٥١	٤،١١٠،٧٧٢	٤،١١٠،٧٧٢	٤،١١٠،٧٧٢	٤،١١٠،٧٧٢	٤،١١٠،٧٧٢	٤،١١٠،٧٧٢	٤،١١٠،٧٧٢	٤،١١٠،٧٧٢
Total sales by capacity (Euro)	٧،١٨٠،٩٦٤	٧،٣٢٧،٥٤٧	٧،٤٧٤،١٣٠	٧،٤٧٤،١٣٠	٧،٤٧٤،١٣٠	٧،٤٧٤،١٣٠	٧،٤٧٤،١٣٠	٧،٤٧٤،١٣٠	٧،٤٧٤،١٣٠	٧،٤٧٤،١٣٠

٦-٣- Economic Schedule

Table (٢٣-٣): Prediction of profit and loss account

All numbers are in million rials										
Description	First year	Second year	Third year	Fourth year	Fifth year	Sixth year	Seventh year	Eightieth year	Ninth year	Tenth year
net sales	٤،١٥٧،٤٠٠	٤،٢٤٢،٢٦٤	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨	٤،٣٢٧،١٢٨
Deducted: the cost of the sold goods	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩	-٣،٢١٠،٢٠٩
Gross profit	٩٤٧،١٩١	١،٠٣٢،٠٥٥	١،١١٦،٩١٩	١،١١٦،٩١٩	١،١١٦،٩١٩	١،١١٦،٩١٩	١،١١٦،٩١٩	١،١١٦،٩١٩	١،١١٦،٩١٩	١،١١٦،٩١٩
Deductions: Operating Costs	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤	-٧٥،٧٣٤
Operating profit	٨٧١،٤٥٧	٩٥٦،٣٢١	١،٠٤١،١٨٥	١،٠٤١،١٨٥	١،٠٤١،١٨٥	١،٠٤١،١٨٥	١،٠٤١،١٨٥	١،٠٤١،١٨٥	١،٠٤١،١٨٥	١،٠٤١،١٨٥
Deductible non-operating costs	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤	-٨،٨١٤
Special interest before tax deduction	٨٦٢،٦٤٣	٩٤٧،٥٠٧	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١
Deductible tax	٨،٦٢٦	٩،٤٧٥	١٠،٣٢٤	١٠،٣٢٤	١٠،٣٢٤	١٠،٣٢٤	١٠،٣٢٤	١٠،٣٢٤	١٠،٣٢٤	١٠،٣٢٤
Net profit	٨٧١،٢٧٠	٩٥٦،٩٨٢	١،٠٤٢،٦٩٥	١،٠٤٢،٦٩٥	١،٠٤٢،٦٩٥	١،٠٤٢،٦٩٥	١،٠٤٢،٦٩٥	١،٠٤٢،٦٩٥	١،٠٤٢،٦٩٥	١،٠٤٢،٦٩٥

Accumulated profit	٨٧١،٢٧٠	١،٨٢٨،٢٥٢	٢،٨٧٠،٩٤٧	٣،٩١٣،٦٤١	٤،٩٥٦،٣٣٦	٥،٩٩٩،٠٣١	٧،٠٤١،٧٢٦	٨،٠٨٤،٤٢١	٩،١٢٧،١١٦	١٠،١٦٩,٨١٠
Net profit (Euro)	١،٥٨٤،١٢٦	٣،٣٢٤،٠٩٤	٥،٢١٩،٩٠٣	٧،١١٥،٧١٢	٩،٠١١،٥٢٠	١٠،٩٠٧,٣٢٩	١٢،٨٠٣,١٣٨	١٤،٦٩٨,٩٤٧	١٦،٥٩٤,٧٥٦	١٨،٤٩٠,٥٦٤

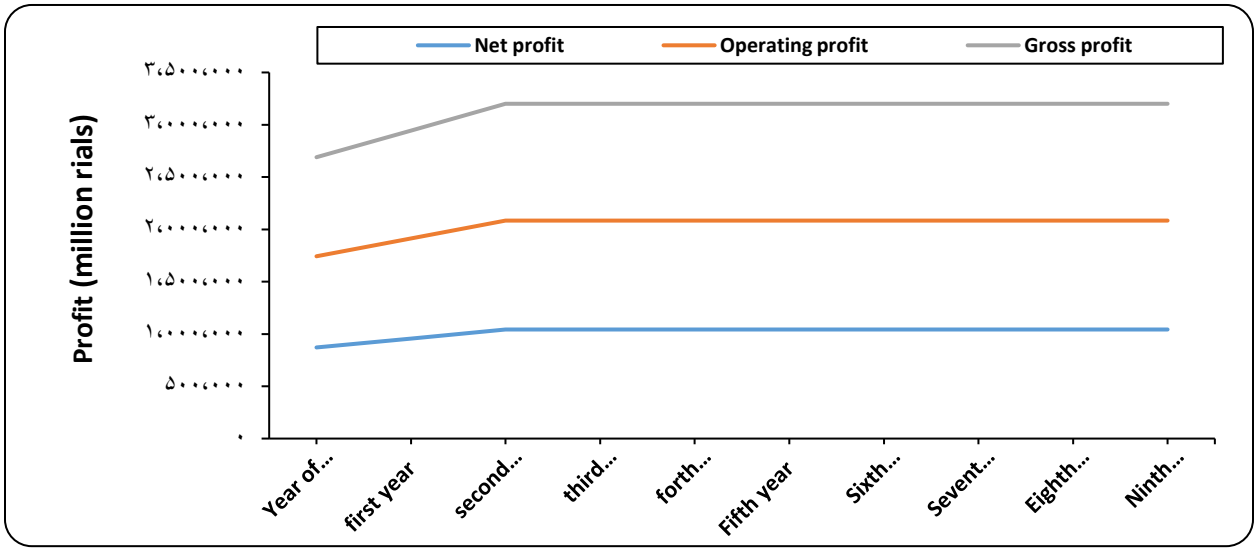


Figure (٣-٣): Project Profit and Loss Forecast

Table (٣-٢٤): Prediction of projected revenue

All numbers are in million rials										
Description	First year	Second year	Third year	Fourth year	Fifth year	Sixth year	Seventh year	Eightiet h year	Ninth year	Tenth year
Special interest before tax deduction	٨٦٢،٦٤٣	٩٤٧،٥٠٧	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١	١،٠٣٢،٣٧١
non-movable assets depreciation	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣	٣١٩،٥٣٣
Depreciation of costs before operation	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠	٦،١٣٠
Total cash flow plans	١،١٨٨،٣٠٧	١،٢٧٣،١٧١	١،٣٥٨،٠٣٥	١،٣٥٨،٠٣٥	١،٣٥٨،٠٣٥	١،٣٥٨،٠٣٥	١،٣٥٨،٠٣٥	١،٣٥٨،٠٣٥	١،٣٥٨،٠٣٥	١،٣٥٨،٠٣٥
Total cash flow plans(Euro)	٢،١٦٠،٥٥٧	٢،٣١٤،٨٥٥	٢،٤٦٩،١٥٤	٢،٤٦٩،١٥٤	٢،٤٦٩،١٥٤	٢،٤٦٩،١٥٤	٢،٤٦٩،١٥٤	٢،٤٦٩،١٥٤	٢،٤٦٩،١٥٤	٢،٤٦٩،١٥٤

Fixed investment project	٤،٤٤٢،٤٩٦	٨،٠٧٧،٢٦٥
Capital in Circulation Scheme	٢٦٤،٤٥١	٤٨٠،٨٢٠
Total investment plan	٤،٧٠٦،٩٤٧	٨،٥٥٨،٠٨٦
Project return rate(IRR)	٢٦,٦٧٪	
Return of capital	٤,١٠ year	

Table (٢٥-٣): Net Present Value (NPV)

All numbers are in million rials			Net Value(Euro)
Row	Rate (%)	Net Value	
١	٠	٩،٣٨٦،٧٣٥	١٧،٠٦٦،٧٩١
٢	٥	٩،٠٠٢،٨٢٩	١٦،٣٦٨،٧٧٩
٣	١٠	٣،٩٠٢،٤٤٠	٧،٠٩٥،٣٤٥
٤	١٥	٢،٦٥٨،٣٨٧	٤،٨٣٣،٤٣٠
٥	٢٠	١،١٣٤،٤٠٧	٢،٠٦٢،٥٥٨
٦	٢٥	٢٥٥،٠٧٩	٤٦٣،٧٧٩
٧	٣٠	-٤٢٠،٦٦٦	-٧٦٤،٨٤٨
٨	٣٥	-٩٥٠،٦٨٦	-١،٧٢٨،٥٢٠
٩	٤٠	-١،٣٧٤،١٢٩	-٢،٤٩٨،٤١٧
١٠	٥٠	-٢،٠٠١،٦٠٥	-٣،٦٣٩،٢٨١
١١	٦٠	-٢،٤٤٨،٨٣٢	-٤،٤٥٢،٤٢٢

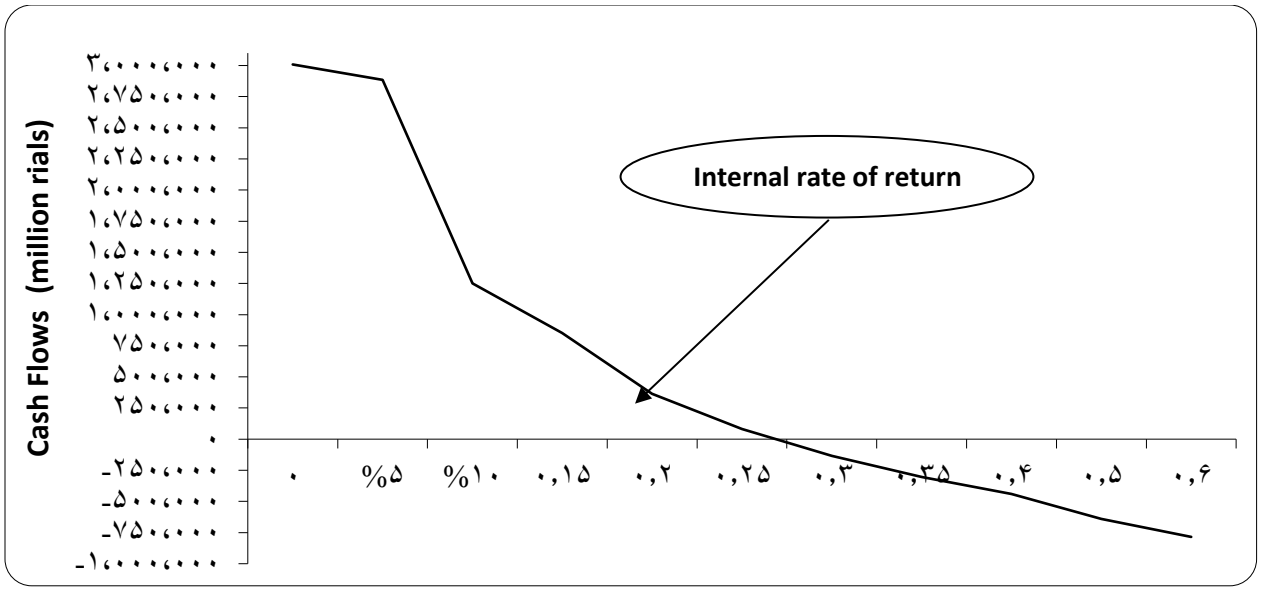


Figure (٤-٣): Net present value of cash flows

Table (٢٦-٣): Breakeven point analysis

Row	Description	Value
١	Fixed production costs (Rials)	٤٩١،١٥٤
٢	Variable production costs (M. Rials)	٢،٧٣٦،٤٩٣
٣	Total fixed and variable production costs (Rials)	٣،٢٢٧،٦٤٦
٤	Total sales (M. Rials)	٤،٣٢٧،١٢٨
٥	Total sales margin (total variable cost - total sales)	١،٥٩٠،٦٣٥
٦	Breakeven point sales - M. Rials = (sales margin / fixed cost ratio)	١،٣٣٦،١٢٤
٧	Safety margin (total sales / (total sales - total sales))	٠,٦٩
٨	Breakeven point production capacity (safety margin - ١)	٠,٣١
٩	Breakeven point * ١٠٠ (sales margin / fixed costs)	٣١٪

Table (٢٧-٣): Description of added value

All numbers are in million rials			
Row	Description	Total price	Total price(Euro)
١	Gross Domestic Value Added (Cash Costs of Service - Sales)	٥٢١،٦٥٠	٢،٠٨٦،٦٠١
٢	Net Gross Value Added (Fixed Asset Depreciation Cost - Gross Domestic Value Added)	٤١٩،٠٦٣	١،٦٧٦،٢٥٣
٣	Gross domestic value added to the value of stands	٣٨٪	
٤	Net domestic value added to the value of stands	٣٠٪	

Table (٢٨-٣): Cash Flow Forecast Table

All numbers are in million rials

Description	year									
	First year	Second year	Third year	Fourth year	Fifth year	Sixth year	Seventh year	Eightieth year	Ninth year	Tenth year
Cash Flows (Internal Resources)	٠	١،٢٦٠،٥٨٠	١،٣٤٥،٤٤٤	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨
External Resources										
Brought to shareholders	٤،٦٧١،٧٦٦	٢٦٤،٤٥١	٠	٠	٠	٠	٠	٠	٠	٠
Total external resources	٤،٦٧١،٧٦٦	٢٦٤،٤٥١	٠	٠	٠	٠	٠	٠	٠	٠
Internal and external resources	٤،٦٧١،٧٦٦	١،٥٢٥،٠٣١	١،٣٤٥،٤٤٤	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨	١،٤٣٠،٣٠٨
Uses										
Fixed investment costs	٤،٣٢٥،٢٠٩	٠	٠	٠	٠	٠	٠	٠	٠	٠
Cost before operation	٨٢،١٠٦	٠	٠	٠	٠	٠	٠	٠	٠	٠
capital in circulation	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١	٢٦٤،٤٥١
tax	٠	٩٣،٢٢٩	١٠١،٧١٥	١١٠،٢٠٢	١١٠،٢٠٢	١١٠،٢٠٢	١١٠،٢٠٢	١١٠،٢٠٢	١١٠،٢٠٢	١١٠،٢٠٢
Total use	٤،٦٧١،٧٦٦	٣٥٧،٦٨٠	٣٦٦،١٦٦	٣٧٤،٦٥٣	٣٧٤،٦٥٣	٣٧٤،٦٥٣	٣٧٤،٦٥٣	٣٧٤،٦٥٣	٣٧٤،٦٥٣	٣٧٤،٦٥٣
Surplus (deficit) of resources	٠	١،١٦٧،٣٥١	٩٧٩،٢٧٨	١،٠٥٥،٦٥٥	١،٠٥٥،٦٥٥	١،٠٥٥،٦٥٥	١،٠٥٥،٦٥٥	١،٠٥٥،٦٥٥	١،٠٥٥،٦٥٥	١،٠٥٥،٦٥٥
Resource surplus (Euro)	٠	٢،١٢٢،٤٥٧	١،٧٨٠،٥٠٥	١،٩١٩،٣٧٣	١،٩١٩،٣٧٣	١،٩١٩،٣٧٣	١،٩١٩،٣٧٣	١،٩١٩،٣٧٣	١،٩١٩،٣٧٣	١،٩١٩،٣٧٣

Chapter ٤:

Schedule

Table (١ hedule

	Month

	١	٢	٣	٤	٥	٦	٧	٨	٩	١٠	١١	١٢
The process of familiarizing with the location of the project and identifying opportunities and challenges												
Follow the administrative steps to start the activity												
Equipping the ingot workshop												
Start of production activity												

Chapter ٥:

Appendix

Appendix (١)
Images of the complex's construction site



