In the name of God

Pre-feasibility study form

Plan Name: Casing Pipes
(Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) production

Employer: Chaharmahal and Bakhtiari Industrial Estates Co.

Consulting Company: Kavosh Consultants Co.

Project Address: Shahrekord Industrial Estate

Initial date: ۲۰۲۱

Update ۲

SUMMARY OF THE FEASIBILITY STUDY

General Specification
Name of The Project: Feasibility studies of Casing Pipes (Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production)
Project Capacity: ۱۵۰۰۰ Ton per year
Personnel Number: ٦۰ people
Working Days: ۲۸۹ Days
Product Usage: Drilling industry
Marketing
Product Global Price: ۲۰۰۰ $ per Ton
Domestic Demand: ۳۵۰۰۰۰۰ ton (Next ٥ years)
Domestic Production: ۲،٥۰۰،۳۰۰ ton
Import: ۱۱۳۰۰۰ kg
Export: ۳۲۱۰۰۰ kg
Technical Study
Land Area: ۱۰۰۰۰
Building Area: ٤۰۰۰
Main Raw Materials: Steel - Alloys - Refractories and ...
Supplying Place of Raw Materials: Local-Import
Power Requirement: ۱،٥۰۰،۰۰۰ (kwh)
Water Requirement: ۱۳۰۰۰۰(m^3)
Fuel Requirement: ۱،۸۰۰،۰۰۰ (m^3)
Economical & Financial Study
Fixed Investment Cost: ۸۲۳۰۱۸ Million Rials- ۲،۸٥۷،۷۰۱ Euro
Working Capital: ۱٥۲۹۰٦ Million Rials- ٥۳۰،۹۲٤ Euro
Total Investment Cost: ۹۷٥۹۲٤ Million Rials- ۲۳٤۲٤۷۲ Euro
Annual Sale: ۱٥۰۰۰۰۰ Million Rials- ٥۲۰۸۳۳۳ Euro
Net Present Value(NPV): ٦۷٤٦۳۲ Million Rials-۲،۳٤۲،٤۷۲ Euro
Break Even Point(BEP): ۷۳٥۰۰۰ Million Rials- ۲،٥٥۲،۰۸۳ Euro
Internal Rate of Return(IRR): ٤٥٪
Investment Return Period: ۲,٥ Years
Investment Sources Ratio Equity: ۳۰٪ Financing: ۷۰٪

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Introduction

Feasibility studies are expert studies that are carried out prior to the implementation of economic investment plans. In these studies, from the market, technical, financial and economic point of view, the plan is analyzed and its results used as a basis for investor decision making.

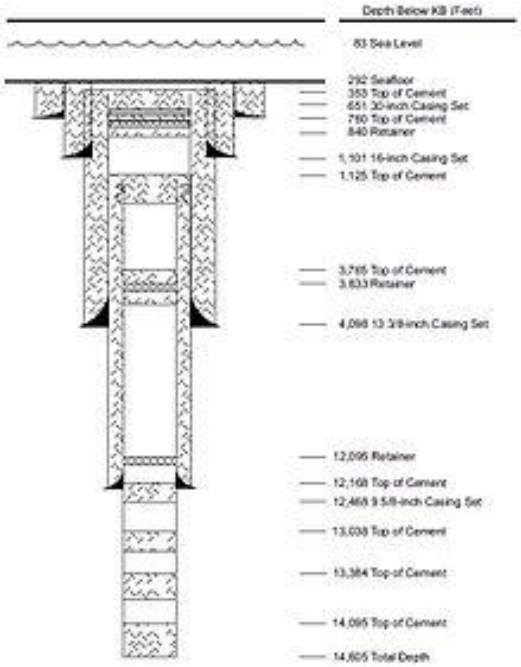
The present report is a feasibility study of Casing Pipes (Seamless wall pipes from ۱۳،۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) production. These studies have been prepared in the framework of feasibility studies methodology and according to the above methodology, the economic capacities and volume of investments required to execute the project will be estimated and presented so that investors and interested stakeholders can obtain all the information needed. Earn money and start investing in open-ended, open-minded economic investment. It is hoped that these auxiliary studies, however small, will contribute to the development of our country.

۱ -Product Introduction

Casing pipe is used in drilling wells or any underground installation, also called wall pipe. Different types of damage are commonly used in underground construction to protect utility lines. Kissing pipe is used to cover oil and gas wells.
Why use wall pipe or casing?
The wall pipe or casing prevents fresh water contamination.
The foundation pipe provides a stronger upper base for the immersion drill.
Activates the smooth hole for mounting equipment in the wall pipe or case.
Surface sealing pipe seals the surface of the high pressure area to prevent it from exploding.

With the wall pipe, the well column is separated from the reservoir environment. In this operation, a pipe, which is usually made of corrosion-resistant metals, is driven into the well, and during this process, after drilling in a significant amount, this operation must be done to prevent the well wall from collapsing during drilling. During the drilling operation, the wall is usually laid ٤ or ٥ times. The structure is such that in the operation of placing the wall pipe at each stage, the whole well column

should be covered and the previous wall pipe should also be covered and the wall pipes after the first wall pipe should be twisted together and as a single wall pipe inwards. Wells are sent.
After placing the wall pipe in the well column, it should be cemented between it and the well wall so that the wall pipe is firmly in place so that drilling can continue with confidence.



۱-۱-Product Name and Code (ISIC ۳)

According to information obtained from the Ministry of Industry, Mines and Trade, the production ISIC code of Casing Pipes (Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) is ۲۹۲٤٤۱۲٤۳٦ . And similar codes are:

Serial Code	Latin Title
2710412429	Pipes with seam
2710512430	Line pipe of a kind used for oil or gas pipelines of steel, spirally welded
2710512431	Line pipe of a kind used for oil or gas pipelines of stainless steel, spirally welded
2710512432	Line pipe of a kind used for oil or gas pipelines, of iron or steel, longitudinally welded
2710512433	Line pipe of a kind used for oil or gas pipelines, of stainless steel, longitudinally welded
2710512435	Threaded or threadable tubes, (plated or coated)

Serial Code	Latin Title
2710412439	Seamless pipes
2710512442	Pipes for oil or gas pipelines of stainless steel
2710512443	Pipes for oil or gas pipelines of iron or steel
2710512444	Drilling pipes of stainless steel
2710512445	Drilling pipes of iron or steel

۱-۲-Customs Tariff Number

According to the Export and Import Regulations Book of ۲۰۲۰ and the Chamber of Commerce, Industries, Mines and Agriculture website, the customs tariff code of Casing Pipes (Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) in the category of customs tariff code ۷۳۰٤, ۷۳۰٥ And ۷۳۰٦.

۱-۳- IMPORT AND EXPORT CONDITIONS

Basic salaries include customs duties, taxes, patents, types of duties and other remuneration received from imported goods and are equivalent to ٤٪ of the customs value of the goods. In sum, this is the income received from the business determined by the Board of Ministers in accordance with the relevant rules. The entry fee for Casing Pipes (Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) is between ٥ and ۲۰٪.

۱-٤- REVIEW AND PRESENTATION OF STANDARDS (NATIONAL OR INTERNATIONAL)

There is no direct standard for Casing Pipes (Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production). The standards are similar to this plan as follows:

Standard Name	Standard Number	Description
National standard	۱۵۶۶۸	Oil industry - wall and core pipes of wells - work procedure
National standard	۱۹۵۰۰	Oil and natural gas industry - Seamless corrosion-resistant alloy pipes for use as wall, core and interface - Delivery terms
National standard	۲۱۲۷۲	Oil and natural gas industry - Steel pipes for use in wells as wall pipes or core pipes

Source: http://www.isiri.org/

International standards related to the title of this project are as follows:

Standard Name	Standard Number	Description
ISO	١٦٤٤٠:٢٠١٦	Petroleum and natural gas industries — Pipeline transportation systems — Design, construction and maintenance of steel cased pipelines
ISO/TC	۱۱۹۶۰	Specification for casing and tubing - Eighth edition - Petroleum and natural gas industries - Steel pipes for use as casing or tubing for wells
ISO	۱۵۵۸۹-۱	Petroleum, petrochemical and natural gas industries —Cathodic protection of pipeline systems

۱-٥- REVIEWING AND PROVIDING NECESSARY INFORMATION ON DOMESTIC AND GLOBAL PRODUCTION PRICES AS WELL AS GLOBAL PRODUCT PRICES

The production price of Casing Pipes abroad is equal to about two dollars per kg. In the country, it is about ۱۰۰،۰۰۰ Rials per kg.

۱-۶- EXPLAIN THE USES OF THE PRODUCT

Prevent the well wall from falling
Separation of different classes of water, oil and gas in the reservoir
Prevent turbulence in the well
Protection of tools inside the brain tube well that is inserted after drilling is completed
Prevent sand from entering the well from the tank and contaminating the stream
Separating low pressure from high pressure layers
Prevent unwanted fluids from entering the well

۱-۷-EXAMINE ALTERNATIVE PRODUCTS AND ANALYZE THEIR EFFECTS ON PRODUCT CONSUMPTION

Instead of wall pipe drilling, drilling is usually done with drill pipes. In this method, instead of using a wall pipe for drilling, the drilling string method is used. But this method is in no way comparable to this method because this method of technology is considered one of the great advances in drilling operations in recent decades. Numerous successful drilling cases of this method have been reported in the world.

By changing the steps required for the drilling process, both time and cost are saved. In addition, the casting system during drilling also provides a set of additional benefits. The benefits of coating during drilling can be summarized as follows:

Save time and money with CwD system when drilling in wall pipe

Deep cover with casting during drilling in wall pipe (casting pipe)

Casting Overcomes challenging areas while drilling in the casting pipe.

Casting Drilling in the casting pipe improves the cleaning of the hole.

Casting during drilling in the wall pipe improves the quality of the hole.

۱-۸-STRATEGIC IMPORTANCE OF GOODS IN IRAN AND COUNTRIES OF THE REGION

Covering wells with wall pipes is an essential part of drilling and completing oil wells, and is to connect a number of steel pipes to each other and install them in a continuous series in the well. During drilling operations, it is necessary to drill a wall pipe for various reasons.

Wall pipes are of strategic importance for the following reasons:

• Wall pipe is used to keep the well open and provide a protector against loose and fragile formations. If the well is left without a wall pipe, it may collapse and need to be drilled again.

• To separate the porous layers of the tank that have fluids with different pressures and to prevent contamination of the oil zone (Pay Zone), you can use wall pipes and cement at the same time. In this case, it is possible to exploit a depth of a certain thickness.

• Wall pipes can prevent groundwater aquifers from being contaminated by drilling mud by separating shallow layers from the inside of the well.

• The main methods of exploiting oil wells use tubing, which provides a suitable place for the installation of the wall pipe.

• Wall pipes provide adequate space for the installation of burst valves (BOP) during drilling and wellhead during operation.

• The wall pipes also create a path with a certain depth and diameter, making it possible to drive the equipment needed to test the well and its final completion.

۱-۹-MAJOR MANUFACTURING AND CONSUMER COUNTRIES

The top ۱۰ manufacturers of Casing Pipes in the world are as follows:

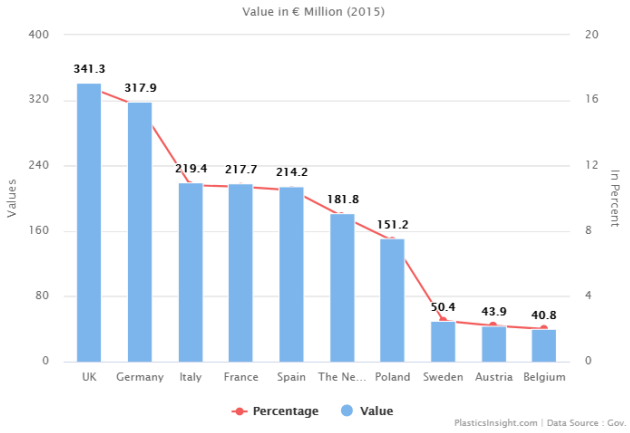
Northwest Pipe Company, TMK, United Drilling Tools Limited, Pipe Industries Corporation, Linde Corrotech International LLC, Tenaris, Vallourec, ChelPipe Group, Oilfield Pipe & Supply Company, Vinyl Pipes Private Limited

The names of domestic companies active in this industry are stated in the next section.

The largest countries producing and exporting Casing pipes

Rank	Country
۱	China
۲	USA
۳	Great Britain
٤	Germany

Among European countries it is as follows:



Largest consuming countries producing Casing pipes

Rank	Country
۱	USA
۲	Saudi
۳	Russia
٤	Canada

۲- SUPPLY AND DEMAND SITUATION IN IRAN AND COUNTRIES IN THE REGION

۲-۱-AN EXAMINATION OF EXPLOITATION CAPACITY AND PRODUCTION PROCESS FROM THE BEGINNING OF THE THIRD DEVELPOMENT PLAN TO NOW

The following figure and table show the specifications and capacity of units active in the field of Casing Pipes production based on the statistics of the Ministry of Industry, Mines and Trade:

Province	Number	Capacity(Ton)
Isfahan	۱۱	۹۹۷۲۵۰
Qom	۲	۲۸۰۰۰۰
Western Azerbaijan	٤	۲۶۰۰۰۰
East Azarbaijan	۲	۲٤٥۰۰۰
Khorasan Razavi	۲	۱۸۰۰۰۰
Tehran	۲	۱۴۰۰۰۰
Semnan	۱	۱۱۳۰۰۰
Guilan	۱	۸۰۰۰۰
Chabahar	۲	۴۰۰۰۰
Khouzestan	۱	۳۲۰۰۰
Hamedan	۱	۲۵۰۰۰
Qazvin	۱	۱۵۰۰۰

Chaharmahal va Bakhtiari	۱	۱۵۰۰۰
Alborz	۲	۲۰۰
Total		۲۴۲۲۴۵۰

۲-۲-CHECK THE STATUS OF NEW PROJECTS AND ONGOING DEVELOPMENT PLANS

By referring to the industrial database of the Ministry of Industry, Mines and Trade, the status and specifications of new projects creating Casing pipes production have been collected and entered in the following table:

Province	Number	Capacity(Ton)
Qom	۳	۱۸۰۰۰۰۰
Isfahan	۱۱	۱۰۲٤۰۰۰
Fars	۱۰	۷۱۱۰۲۰
Markazi	۱۰	٦٦٥۰۰۰
Kerman	۲	۳۷۰۰۰۰
Western Azerbaijan	۲	۳۶۰۰۰۰
Khouzestan	۸	۲۷۵۰۳۸
Zanjan	۱	۲۵۰۰۰۰
Qazvin	۴	۲۴۴۰۰۰
Kohgiluyeh va Bouyerahmad	۴	۱۹۰۰۰۰
Golestan	۵	۱۳۶۵۰۰
Khorasan Razavi	۵	۱۳۳۴۰۰
Chaharmahal va Bakhtiari	۵	۹۰۵۰۰
Hamedan	۱	۶۵۰۰۰
Semnan	۶	۳۸۰۰۰
Ardabil	۲	۳۷۵۰۰
Mazandaran	۲	۳۵۰۰۰
East Azarbaijan	۳	۳۰۰۰۰
Tehran	۳	۲۰۷۰۰
Boushehr	۱	۱۰۰۰۰
North Khorasan	۱	۸۰۰۰
Sistan va Balouchestan	۱	۵۰۰۰
Lorestan	۲	۳۳۰۰
Total		۶۵۰۱۹۵۸

Source: Ministry of Industry, Mining and Commerce - Statistics and Information Center

۲-۳-REVIEWING THE PROCESS OF PRODUCT IMPORTATION

According to the Chamber of Commerce, Industries, Mines and Agriculture, the import statistics for the last five years are as follows:

Tariff ۷۳۰٤

Year	Weight (kg)	Rial value	Dollar value
۲۰۱٦	۲۱۷،۹۴۱،۳۹۹	۸،۰۰۱،۷۹۵،۴۲۴،۱۵۳	۲۷۳،۳۴۶،۴۳۷
۲۰۱۷	۲۸۱،۱۲۲،۹۴۵	۹،۶۷۹،۱۲۰،۵۱۴،۴۱۷	۳۱۲،۰۷۷،۸۴۹
۲۰۱۸	۲۵۸،۷۲۴،۸۴۸	۱۰،۰۲۹،۱۷۷،۹۰۱،۹۵۱	۲۹۵،۲۹۵،۳۵۱
۲۰۱۹	۱۵۳،۲۸۷،۵۵۹	۸،۷۲۱،۹۴۸،۱۳۸،۰۷۵	۲۱۲،۳۲۹،۷۱۷
۲۰۲۰	۹۱،۳۱۶،۸۴۶	۱۸،۱۸۴،۲۲۳،۷۵۰،۰۰۰	۱۴۵،۴۲۸،۷۹۵

Tariff ۷۳۰۵

Year	Weight (kg)	Rial value	Dollar value
۲۰۱٦	۷،۰۳۶،۲۱۹	۴۴۴،۳۶۲،۱۴۷،۲۷۳	۱۵،۰۶۳،۵۸۳
۲۰۱۷	۱۵،۳۹۸،۹۵۸	۶۵۷،۴۵۳،۴۷۱،۷۳۶	۲۰،۹۹۶،۴۲۸
۲۰۱۸	۱۶،۴۳۶،۹۷۰	۵۹۰،۱۱۹،۱۵۱،۸۷۸	۱۷،۵۵۷،۴۲۲
۲۰۱۹	۱۵،۴۵۴،۹۹۵	۷۰۴،۱۷۱،۰۲۳،۴۷۵	۱۶،۷۰۰،۹۲۱
۲۰۲۰	۶،۷۱۱،۵۴۷	۱،۲۷۶،۹۵۹،۲۵۰،۰۰۰	۱۰،۲۱۵،۴۱۱

Tariff ۷۳۰٦

Year	Weight (kg)	Rial value	Dollar value
۲۰۱٦	۲۰،۹۶۴،۴۵۱	۱،۰۳۰،۶۹۷،۷۷۲،۲۷۰	۳۴،۸۵۴،۲۴۱
۲۰۱۷	۲۱،۶۳۹،۱۷۳	۹۷۷،۱۵۰،۵۱۶،۲۷۳	۳۱،۲۱۴،۱۷۷
۲۰۱۸	۲۲،۳۵۹،۵۹۹	۱،۲۴۱،۰۵۳،۸۰۸،۶۱۶	۳۶،۷۴۹،۷۲۷
۲۰۱۹	۱۶،۹۵۲،۵۷۲	۱،۱۳۰،۴۶۳،۲۲۲،۹۴۵	۲۷،۴۵۳،۷۳۳
۲۰۲۰	۱۵،۷۹۵،۰۹۶	۳،۶۶۲،۶۹۷،۰۰۰،۰۰۰	۲۹،۳۲۱،۷۴۰

Source: Tehran Chamber of Commerce, Industries, Mines and Agriculture http://www.tccim.ir

۲-٤-MONTORING CONSUMPTION TRENDS

The best way to determine the consumption of Casing Pipes is to use the balance of supply and demand. In such a way that the amount of domestic consumption is equal to the product of the difference between supply (total domestic production and imports) and exports. According to the latest statistics available in ۲۰۲۰, the amount of import was ۱۱۳۰۰۰ ton and the amount of export was ۳۲۱۰۰۰ ton and we had a production of about ۲۵۰۰۰۰۰ tons. Consumption of this product has increased in recent years due to the industrial development of the country and is expected to reach nearly ۳،۵۰۰،۰۰۰ tons per year in the future.

۲-۵-INVESTIGATE THE EXPORT PROCESS OF THE PRODUCT AND THE POSSIBILITY OF ITS DEVELOPMENT

According to the Chamber of Commerce, Industries, Mines and Agriculture, the export statistics for the last five years are as follows:

Tariff ۷۳۰٤

Year	Weight (kg)	Rial value	Dollar value
۲۰۱٦	۴.۲۲۲.۲۵۲	۱۳۵.۲۲۰.۸۰۹.۲۰۵	۴.۵۷۳.۲۴۴
۲۰۱۷	۴.۶۲۴.۲۰۳	۲۷۶.۵۰۲.۱۱۲.۵۰۰	۸.۷۶۲.۲۰۲
۲۰۱۸	۸.۹۱۷.۳۲۰	۲.۶۸۳.۰۲۰.۷۲۰.۰۹۰	۸۰.۵۹۷.۵۴۲
۲۰۱۹	۱۸.۴۳۶.۲۸۹	۳.۵۳۷.۲۷۳.۲۰۹.۱۶۴	۷۳.۰۳۵.۶۱۰
۲۰۲۰	۵.۳۱۷.۲۹۱	۲.۸۲۵.۱۱۲.۳۹۳.۶۵۳	۲۲.۶۱۱.۱۳۴

Tariff ۷۳۰۵

Year	Weight (kg)	Rial value	Dollar value
۲۰۱٦	۴.۳۵۹.۲۹۵	۱۷۸.۶۴۷.۴۶۳.۵۹۵	۵.۹۸۷.۰۱۱
۲۰۱۷	۶۹۹.۷۹۵	۳۵.۸۸۴.۵۳۳.۹۳۰	۱.۱۱۹.۳۱۱
۲۰۱۸	۵۸.۶۹۲	۴.۰۳۲.۷۰۶.۱۷۶	۱۱۸.۲۱۰
۲۰۱۹	۷.۰۶۲.۵۴۶	۳۲۶.۱۷۸.۱۴۵.۴۹۵	۴.۱۲۹.۶۱۷
۲۰۲۰	۸.۶۰۰.۰۱۶	۵۴۶.۳۵۵.۸۷۶.۰۴۲	۴.۳۷۱.۷۹۳

Tariff ۷۳۰٦

Year	Weight (kg)	Rial value	Dollar value
۲۰۱٦	۱۵۲.۰۰۵.۶۱۰	۳.۴۹۹.۵۸۸.۷۵۳.۵۵۸	۱۱۸.۳۴۸.۰۸۱
۲۰۱۷	۱۱۸.۳۶۷.۷۶۶	۲.۴۶۲.۱۷۳.۴۸۴.۱۱۸	۷۸.۴۴۳.۹۱۴
۲۰۱۸	۱۱۱.۴۶۲.۰۴۴	۲.۶۲۵.۰۱۶.۵۹۴.۰۰۶	۸۰.۰۴۵.۶۳۶
۲۰۱۹	۳۰۱.۲۳۵.۲۶۰	۱۱.۵۶۵.۹۵۹.۲۴۸.۹۶۶	۱۹۶.۴۴۴.۶۱۵

۲۰۲۰	۳۰۶،۹۹۲،۱۲۸	۱۵،۸۴۳،۶۶۶،۹۳۴،۲۸۱	۱۲۶،۷۸۴،۴۶۷

Source: Tehran Chamber of Commerce, Industries, Mines and Agriculture http://www.tccim.ir

۲-۶- PRODUCT REQUIREMENT CHECK WITH EXPORT PRIORITY

Many countries that in the contemporary period, especially in the past few decades, have been able to follow the path of progress and development, have accurately implemented specific economic, social and political programs, and after going through medium- or long-term programs. Progress and development have been achieved.

The first proposed development plan after the Islamic Revolution for the years ۱۹۸۳-۱۹۸۷ was prepared. The last development plan (Sixth Development Plan) was approved by the Islamic Consultative Assembly in March ۲۰۱۷.

In many developed countries, exports are the main focus of development and are very important in the presence of that country in global markets. Domestic production and its arena in the global competitive market, or in other words, exports, is one of the factors that can make countries independent. The importance and necessity of the presence of goods made by a country in the world market and the atmosphere of the international economy are among the most important factors of development. The role of exports in this regard is so important that many export experts consider the only successful path to economic development of a country in the global market.

The most important issue for any country like Iran is to achieve economic development and to have an economic, productive and export-oriented system. In order to achieve this, first of all, it is necessary to meet the domestic needs of the country and to expand the export of goods and services in excess of domestic consumption. To achieve a society where there is no poverty, unemployment and backwardness, efforts must be made for its economic growth. Along with economic growth, there must be justice and empowerment of the people of the society to manage their lives.

Exports play an important role in production and employment, so they require a lot of attention to expand and have an active presence in global markets. Exporters in the economic field should also be encouraged.

At present, we can see a very good export of Casing Pipes (Seamless wall pipes from ۱۳،۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production). Because there is a lot of demand in different countries and each of them is trying to get in touch with first-hand producers. This can help Iran's non-oil exports and boost production in the country.

Piping wells, especially oil, gas, water and exploration wells, is a part of drilling operations that is necessary during the progress of drilling operations or after drilling wells, and today it has a very important role in the exploration industry.

۳-OVERVIEW OF TECHNOLOGY AND METHODS OF PRODUCTION AND SUPPLY IN THE COUNTRY AND COMPARISON WITH OTHER COUNTRIES

In the process of producing wall pipes using the extrusion process, steel ingots are first cut to the desired dimensions. The cut ingots are then sent to special heat furnaces with gas fuel consumption. By applying heat to the ingot, the ingot temperature rises to the point of frying. Applying heat increases the flexibility and ductility of the ingot. Then the cross section of the ingots is rounded and then they use a extruded mandrel to pierce the surface of the round ingots.

In principle, repeated blows of the machine's mandrel to the heated steel ingot are used to pierce the ingot. After drilling and producing the pipe, if the surface of the pipe is distorted and twisted, twist it to achieve a smooth, one-handed surface. In the stretching stage, the pipe is stretched in different lengths up to ۲٤ meters in length.

The produced pipe is then cooled using a stream of water. Finally, the cooled pipes are cut to the desired length and then subjected to a series of tests to separate the defective product. Machine or manual grooving machine is used to create surface grooves. Finally, the pipes are packed in multi-ton bundles.

In the production of well wall joints, direct weld seam type roller process is used. First, the steel sheet coil is cut to the desired width. The cut sheets are then sent to the rolling stage. In rolling and forming straight seam pipes, a sequence of a series of special rollers is used.

In each stage, three rollers are placed next to each other, and the middle roller bends outwards by applying pressure on the surface of the sheet, creating a U-shape. The side rollers also bend the edges of the sheet from the outside to the inside to form a circle. The joints of the circular sheets are joined together in the next step using welding operations.

٤-DETERMINING THE STRENGTHS AND WEAKNESSES OF CONVENTIONAL TECHNOLOGIES IN THE PRODUCT MANUFACTURING PROCESS

High efficiency and quality and ease of production of prepared Casing Pipes (Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) are the most important advantages of the mentioned methods. The production of this product requires a precise quality management process, which is mentioned below.

The growth and development of the world's industries is largely due to competition between industrial units. In this regard, each industrial unit by increasing the quality of its products, tries to gain more market share and this trend over time has improved the quality of products and as a result the quality growth of industrial communities. Quality control to determine the accuracy of the production operation, according to the technical specifications specified for the product. This operation helps to prevent the production of defective products, waste capital and reduce the cost of the product.

In general, quality control objectives can be summarized as follows:

• Maintaining the set standards
• Detection and improvement of deviations in the production process
• Identify and improve non-standard products
• Evaluate the efficiency of individuals in units

In other words, quality control is the assurance of the supply and production of goods and services, according to standards

Determined and inspected as one of the integral components of quality control in order to identify defects and provide the information needed for the quality control system in all industrial units.

The general inspection steps according to the situation of each industry are as follows:

۱) In the stage of delivery of raw materials
۲) At the beginning of production
۳) Before starting the operation
٤) Before starting the irreversible operation
٥) Before starting the operation that causes the defects to be covered
٦) In the final stage of work

Each of these inspection steps may be performed on site or in a laboratory.

In this unit, according to the characteristics of this industry, each of the necessary steps of quality control and the location of these tests are determined.

will be. As mentioned, quality control should be applied in three steps.

۱) Quality control of raw materials
۲) Control during production
۳) Final control

۱) Raw material quality control:

This part of quality control should be checked on the product sample before the purchase stage for compliance with the expected characteristics.

Take place.

۲) Control during production:

This part of quality control includes all stages of production and in each stage the necessary controls will be performed by the relevant operator.

۳) Final control:

Manufactured products are controlled from different aspects. It is also necessary to pay attention to transportation issues.

Simultaneously with performing different stages of quality control, various destructive and non-destructive tests are performed in two units and based on the conditions specified in the API standard and other standards.

Metallurgical laboratory includes:

۱ -Tensile and pressure test

۲ -Sharpe impact test
۳ -Hardness test
٤ -Metallography test

۵- INVESTIGATE AND DETERMINE THE MINIMUM ECONOMIC CAPACITY, INCLUDING ESTIMATING THE VOLUME OF FIXED INVESTMENT IN RIAL AND FOREIGN CURRENCY

EXPLANATION: EXCHANGE RATE BASED ON NIMA SYSTEM - DATED ۲۰۲۲-۰۸ - AMOUNT: ۲۸۸۰۰۰ RIALS

Project Investment Schedule:

Description	Cost (Million Rials)	Cost (Euro)
Land	۲۵۰۰۰	۸۶،۸۰۵/۵۶
Landscaping	۱۴۸۲۰	۵۱،۴۵۸/۳۳
Construction	۲۰۲۵۰۰	۷۰۳،۱۲۵/۰۰
Production line machinery and equipment	۴۹۶۲۶۸	۱،۷۲۳،۱۵۲/۷۸
laboratory equipment	۳۵۰۰	۱۲،۱۵۲/۷۸
Utilities	۶۰۲۰	۲۰،۹۰۲/۷۸
transportation	۱۴۰۰۰	۴۸،۶۱۱/۱۱
Office equipment	۱۲۱۴	۴،۲۱۵/۲۸
Miscellaneous and unforeseen	۵۹۶۹۶	۲۰۷،۲۷۷/۷۸
Total	۸۲۳۰۱۸	۲،۸۵۷،۷۰۱/۳۹

The ground specification of the project implementation is as follows:

Description	Area (m ۲)	Unit Price (Rials)	Total (Million Rials)	Total (Euro)
Land	۱۰۰۰۰	۲/۵۰۰/۰۰۰	۲۵۰۰۰	۸۶،۸۰۵/۵۶

The cost of landscaping is as follows:

Description	Area	Unit Price (Rials)	Total (Million Rials)	Total (Euro)
Digging and leveling	۱۰۰۰۰	۱۲۵۰۰۰۰	۱۲۵۰۰	۴۳،۴۰۲/۷۸
Fencing	۴۰۰	۱۵۰۰۰۰۰	۶۰۰	۲،۰۸۳/۳۳

Asphalt and pavement paving	۸۰۰	۱۱۰۰۰۰۰	۸۸۰	۳،۰۵۵/۵۶
Green space and lighting	۶۰۰	۱۴۰۰۰۰۰	۸۴۰	۲،۹۱۶/۶۷
Total			۱۴۸۲۰	۲،۹۱۶/۶۷

Building Information:

Description	Building type	Area	Unit Price (Rials)	Total (Million Rials)	Total (Euro)
Production	Niches	۲۴۰۰	۴۳۷۵۰۰۰۰	۱۰۵۰۰۰	۳۶۴,۵۸۳/۳۳
Raw materials and supplies	Niches	۱۰۰۰	۶۰۰۰۰۰۰۰	۶۰۰۰۰	۲۰۸,۳۳۳/۳۳
Office building and services	Official	۳۵۰	۷۰۰۰۰۰۰۰	۲۴۵۰۰	۸۵,۰۶۹/۴۴
Utilities	Niches	۲۰۰	۶۰۰۰۰۰۰۰	۱۰۰۰۰	۳۴,۷۲۲/۲۲
Guard		۵۰	۶۰۰۰۰۰۰۰	۳۰۰۰	۱۰,۴۱۶/۶۷
Total		۴۰۰۰		۲۰۲۵۰۰	۷۰۳,۱۲۵

Utilities:

Description	Cost (Million Rials)	Cost (Euro)
Power Supply	۲۰۰۰	۶،۹۴۴/۴۴
Fuel	۵۰۰	۱،۷۳۶/۱۱
Heating and cooling equipment	۲۲۰۰	۷،۶۳۸/۸۹
Protective equipment and security system	۳۲۰	۱،۱۱۱/۱۱
Compressed air supply	۱۰۰۰	۳،۴۷۲/۲۲
Total	۶۰۲۰	۲۰،۹۰۲/۷۸

Transportation:

Description	Technical Specifications	Cost (Million Rials)	Cost (Euro)
Forklifts	۳ ton	۷۵۰۰	۲۶،۰۴۱/۶۷

Pickup	Nissan	۳۵۰۰	۱۲،۱۵۲/۷۸
Riding	Samand	۳۰۰۰	۱۰،٤۱٦/٦۷
Total		۱۴۰۰۰	٤۸،٦۱۱/۱۱

Equipment and Machinery:

Manufacturing machinery is the most important part of industrial investment. The machinery of each manufacturing complex determines the quality and variety of products, production technology, raw materials, and many of the methods, costs of production, and even the finished product price. Machinery selection is a critical and influential factor in the macroeconomic indicators of the plan. The cost of producing the machinery and equipment of the production line is estimated on the basis of inquiries from major manufacturing companies or reputable agencies. It also calculates the cost of procuring machinery, including shipping, installation, customs duties, and so on.

The world's leading companies producing the main equipment for the Casing Pipes (Seamless wall pipes from ۱۳,۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) production process can be listed as follows:

ashoka ،Zhong zhou ،Qingdao. ... But due to the capabilities of domestic specialists, the machinery of this project including reactors, furnaces, etc. can easily be supplied from Iran at a more reasonable cost. The price range for all of these companies is about ۱۰ percent. The price of machines for this process is given in the table below.

Number	Name	Required amour	Currency (Euro)	cost (million rials)	Rial sum (million rial	Supply (domestic foreign)
۱	Preheating furnace	۱	٤٦۷،۰۳۱/۲۵	۱۳۴۵۰۵	۱۳۴۵۰۵	Foreign
۲	۷-pass rafting stand	۱	۳۹۸،۹۲۳/٦۱	۱۱۴۸۹۰	۱۱۴۸۹۰	
۳	Intermediate and final stand	۳	۱۰۳،۷۸٤/۷۲	۲۹۸۹۰	۸۹۶۷۰	
٤	Cool the bed and pack	۱	۳۸۹،۱۹٤/٤٤	۱۱۲۰۸۸	۱۱۲۰۸۸	
۵	Other cases	۱	۱۵٦،٦٤۹/۳۱	۴۵۱۱۵	۴۵۱۱۵	
Total (million rials)				۴۹۶۲۶۸		
Total (Euro)				۱،۷۲۳،۱۵۲/۷۸		

laboratory equipment:

Number	Name	Currency (Euro)	Rial Cost (Million Rials)	Rial sum million) (rials
۱	laboratory equipment	۱۲،۱۵۲/۷۸	۳۵۰۰	۳۵۰۰
۲				
Total		۳۵۰۰		

Office equipment:

Number	Name	The required amount	Currency (Euro)	Rial cost per unit	Rial Cost (Million Rials
۱	Management desk with chairs	۱	۲۷۷/۷۸	۸۰/۰۰۰/۰۰۰	۸۰
۲	Conference table and conference chair	۱	۲۲۵/۶۹	۶۵/۰۰۰/۰۰۰	۶۵
۳	Computer desk and chair	۳	۱۰۴/۱۷	۱۰/۰۰۰/۰۰۰	۳۰
٤	Staff desk and chair	۶	۱۶۶/۶۷	۸/۰۰۰/۰۰۰	۴۸
۵	Secretary desk and chair	۲	٤۸/۶۱	۷/۰۰۰/۰۰۰	۱۴
۶	Showcase	۲	۹۰/۲۸	۱۳/۰۰۰/۰۰۰	۲۶
۷	Library	۲	۱۳۸/۸۹	۲۰/۰۰۰/۰۰۰	۴۰
۸	Four-slider file	۳	۶۲/۵۰	۶/۰۰۰/۰۰۰	۱۸
۹	Waiting armchair	۷	۷۲/۹۲	۳/۰۰۰/۰۰۰	۲۱
۱۰	Dining table and chairs	۱ Series	۶۹/٤٤	۲۰/۰۰۰/۰۰۰	۲۰
۱۱	Computer	۶	۱،۳۵٤/۱۷	۶۵/۰۰۰/۰۰۰	۳۹۰
۱۲	Printers and scanners	۳	٤۱۶/۶۷	٤۰/۰۰۰/۰۰۰	۱۲۰
۱۳	fax	۲	۲۰۸/۳۳	۳۰/۰۰۰/۰۰۰	۶۰
۱٤	Phone	۵	۸۶/۸۱	۵/۰۰۰/۰۰۰	۲۵
۱۵	Fingerprint attendance device	۱	۱۰٤/۱۷	۳۰/۰۰۰/۰۰۰	۳۰
۱۶	Wireless network and internet equipment	۱	۵۲/۰۸	۱۵/۰۰۰/۰۰۰	۱۵
۱۷	Office stationery	٤ Series	۱۱۱/۱۱	۸/۰۰۰/۰۰۰	۳۲
۱۸	Central system	۱	۲٤۳/۰۶	۷۰/۰۰۰/۰۰۰	۷۰
۱۹	Other	۱	۳۸۱/۹٤	۱۱۰/۰۰۰/۰۰۰	۱۱۰
Total (Million Rials)		۱۲۱۴			
Total (Euro)		٤،۲۱۵/۲۸			

Working Capital Costs:

Name	Description	Cost (Million Rials)	Cost (Euro)
Raw materials and packaging	٦٠ Days	۱۴۶۹۸۸	٥١٠،٣٧٥/٠٠
salary	٣٠ Days	٣۶٩٣	١٢،٨٢٢/٩٢
Energy costs	٣٠ Days	٢٥٢	٨٧٥/٠٠
revolving fund	١٥ Days	١٩٧٣	٦،٨٥٠/٦٩
Total		١٥٢٩٠٦	٥٣٠،٩٢٣/٦١

Production costs:

Description	Cost (Million Rials)	Cost (Euro)
Cost of raw materials and packaging	٨٨١٩٢٥	٣،٠٦٢،٢٣٩/٥٨
Salary Cost	۴۴٣١٣	١٥٣،٨٦٤/٥٨
Energy costs	٣٠٢٨	١٠،٥١٣/٨٩
Cost of maintenance	٥۴٠۴١	١٨٧،٦٤٢/٣٦
Unforeseen cost of production	٥٩٣٨	٢٠،٦١٨/٠٦
Administrative and sales costs	٩٨٩٢	٣٤،٣٤٧/٢٢
Costs of financial facilities	٩٩٩١	٣٤،٦٩٠/٩٧
Insurance costs	٢٢۶۶٧	٧٨،٧٠٤/٨٦
Depreciation cost	٥٠٠	١،٧٣٦/١١
Depreciation expense before operation	٩۴٢	٣،٢٧٠/٨٣
Total	١٠٣٣٢٣٧	٣،٥٨٧،٦٢٨/٤٧

٦-THE AMOUNT OF RAW MATERIAL NEEDED ANNUALLY AND WHERE IT IS SUPPLIED

Number	Description	Consumption per unit product	Unit of consumption	Amount of Consumption Required for Total Capacity	Currency prices (Euro)	Rial equivalent (per unit)	Place of supply	Cost (Million Rials)
١	Steel and iron	٠.٧	Ton	١٠٥٠٠	١٣٨/٨٩	٤٠/٠٠٠/٠٠٠	Local	۴۲۰۰۰۰
٢	Ferroalloys (ferrosilicon-ferromanganese, etc.)	٠.١	Ton	١٥٠٠	٨٣٣/٣٣	٢٤/٠٠٠/٠٠٠	Import	٣۶٠٠٠٠
٣	Refractories (Furnace-Pot-Tandish)	٠,٠٥	Ton	٧٥٠	٣٨/١٩	١١/٠٠٠/٠٠٠	Local	٨٢٥٠
٤	Oxygen gas	٠.٠٥	Ton	٧٥٠	٦٢/٥٠	١٨/٠٠٠/٠٠٠	Import	١٣٥٠٠
٥	Other cases	٠,١	Ton	١٥٠٠	١٨٥/٥٩	٥٣/٤٥٠/٠٠٠	Local	٨٠١٧٥
Total (Million Rials)								٨٨١٩٢٥
Total (Euro)								٣,٠۶٢,٢٣٩/٥٨

٧-RISK ANALYSIS OF PROJECT IMPLEMENTATION

Studies show that in the next year the market will be in short supply and there will be a greater need for imports. So it can be said that the implementation of new projects in this field is not very risky because in addition to the domestic market there is easily good potential to export this product to neighboring countries and if for any reason the applicant intends to undertake this plan, it is necessary to act with caution and superiority over other industrial units and by examining further the weaknesses and strengths as internal factors as well as opportunities and opportunities. Threats as external factors minimize project risk.

٨- HUMAN RESOURCES AND NUMBER OF JOBS

One important aspect of any industrial unit is its job creation, which is thoroughly examined in the market segment. Due to the nature of the industry and the need for ٢ shifts to work, it has been

attempted to select the number of personnel in a manner that addresses the production needs of the two shifts. It has also been tried to use related specialties in different parts of production.
To calculate the amount of annual salaries and benefits, three shifts and other benefits have been added to the annual salary. For this purpose, the annual salary is set at ۱۶،٤ months per year
.

Description	Gender	Number	Monthly salary per person (Million Rials)	Monthly salary (Million Rials)	Annual salaries (Million rials)	Annual salaries (Euro)
Managing Director	Man	۱	۸۰	۸۰	۱۳۱۲	٤،۰۰۰/۰٦
financial manager	Man	۱	۶۵	۶۵	۱۰۶۶	۳،۷۰۱/۳۹
Marketing Manager	Man	۱	۶۵	۶۵	۱۰۶۶	۳،۷۰۱/۳۹
Financial, sales and administrative personnel	Female	۴	۵۵	۲۲۰	۳۶۰۸	۱۲،۰۲۷/۷۸
warehouse keeper	Man	۴	۴۵	۱۸۰	۲۹۵۲	۱۰،۲۵۰/۰۰
Line Administrator	Man	۳	۵۳	۱۵۹	۲۶۰۸	۹،۰۰۰/۰٦
skilled worker	Man	۵	۴۹	۲۴۵	۴۰۱۸	۱۳،۹۰۱/۳۹
Semi-skilled worker	Man	۸	۴۵	۳۶۰	۵۹۰۴	۲۰،۵۰۰/۰۰
worker	Man	۲۴	۴۰	۹۶۰	۱۵۷۴۴	٥٤،٦٦٦/٦۷
Service	Female	۳	۴۰	۱۲۰	۱۹۶۸	٦،۸۳۳/۳۳
Guard	Man	۲	۴۰	۸۰	۱۳۱۲	٤،۰۰۰/۰٦
Driver	Man	۲	۴۴	۸۸	۱۴۴۳	٥،۰۱۰/٤۲
Secretary	Female	۲	۴۰	۸۰	۱۳۱۲	٤،۰۰۰/۰٦
Total		۶۰			۴۴۳۱۳	۱٥۳،۸٦٤/٥۸

۹- CHECK AND DETERMINE THE AMOUNT OF WATER, ELECTRICITY, FUEL AND ...

Description	Unit	annual consumption	Cost per unit in Rials	Total Cost (Million Rials)	Total Cost (Euro)

Power Consumption	KWh	۱/۵۰۰/۰۰۰	٦٤٨	۹۷۲	۳،۳۷۵/۰۰
Water Consumption	Cubic meters	۱۳۰/۰۰۰	۱۹۷۳	۲۵۶	۸۸۸/۸۹
Gas	Cubic meters	۱/۸۰۰/۰۰۰	۱۰۰۰	۱۸۰۰	٦،۲۵۰/۰۰
Total				۳۰۲۸	۱۰،۵۱۳/۸۹

۱۰- CONDITIONS OF ECONOMIC AND COMMERCIAL SUPPORT

۱۰-۱- CUSTOMS TARIFF SUPPORT (PRODUCTS AND MACHINES) WITH GLOBAL TARIFFS

Support for fertilizer producers, especially Casing Pipes (Seamless wall pipes from ۱۳،۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production), is part of the Agricultural Support Service Company program and is monitored periodically by a technical working group on behalf of the company and the Ministry of Agriculture and Water and Soil to monitor the quality of fertilizers. The agricultural support services company relies on domestic production and a significant reduction in fertilizer imports, including the supply of fertilizers, organic fertilizers, biofertilizers, microbes and more. Also, in most petrochemical companies, unfortunately, some of the raw materials and machinery needed are supplied from abroad, which come to Iran after initial tests and technical examinations, and in the absence of problems. Therefore, the customs duty received is about ۱۰٪ of the total imported genus. It also requires payment of customs duties if the product is exported. Although in recent years appropriate incentives have been adopted to encourage domestic producers to export their products, which has led to increased exports, but more attention must be paid to this issue by the authorities.

۱۰-۲- FINANCIAL SUPPORT (EXISTING UNITS AND PLANS) OF BANKS - INVESTOR COMPANIES

Long-term facilities to finance part of the investment costs for the creation or development of industrial, mining and tourism units or to provide the necessary conditions for optimal utilization of these units, the facility bank in foreign currency and rial in the form of an Islamic contract Grants.

Terms:

۱- Only financial facility projects that have the necessary technical, financial and economic justification are granted.

۲- The granting of facilities to natural persons up to one billion rials shall be permitted and the payment of such facilities shall be exclusively permitted to legal persons.
۳- The Bank typically finances up to ۷۰٪ of the project's fixed capital investment as a facility, while ۳۰٪ of the total project investment (including fixed capital and working capital) must be provided by the applicant as paid-in company capital. .
٤- The repayment period of the facility is typically a maximum of ٥ years. It was the Bank's authority to change this period to suit the status of the plans.
٥- When applying for a facility, the applicant shall open a loan account.
٦-In general, ۳۰٪ of the total project investment must be financed by the investor and the bank can invest up to the remaining ۷۰٪.
Steps:
۱-Acceptance: At this stage the applicant can apply to any bank branch and submit his / her application. If the plan is not on the priority list, the Bank agrees to provide the justification.
۲- Compilation of project justification report: Applicant prepares justification report through Bank Consulting Engineer companies.
۳- Acceptance: At this stage, the project justification report will be delivered to the branch with the required documentation.
٤- Evaluation and approval: The Bank's justification report will be reviewed and if approved, the facility payment will be approved by the competent authority.
٥- Contract: After providing the required documents and guarantees, the contract for granting the facility will be concluded.
٦- Payment: The project progress report will be prepared at the time specified by the consulting engineer and submitted to the bank. Once the progress report has been approved by the bank, payment is made as appropriate to the progress of the plan.

۱۱-ANALYZING AND PRESENTING FINAL CONCLUSIONS AND PROPOSALS FOR THE CONSTRUCTION OF NEW UNITS

- One of the basic principles of sustainable production is to improve soil quality from fertility and to return nutrients absorbed by plants to the soil. Fortunately, we are very successful in the field of biofertilizers in the country. The use of these fertilizers not only contributes to environmental sustainability, but also to food security. Due to the growing of the agricultural industry, the need for farmers to use different fertilizers such as Casing Pipes (Seamless wall pipes from ۱۳،۸ inches to ۲۰ inches Seamed wall pipes from ۲۰ to ۳۰ inches production) is very high. Although the process of this product is not complicated, for unknown reasons this product is produced in small quantities in Iran and according to the Chamber of Commerce, Industry, Mines and Agriculture, its imports amounted to about ٤۷،٥٤۹،۳٦۲ kg in ۲۰۱۸. Therefore, if access to the raw material, applicants are

suggested to build one (or several) ۲۰،۰۰۰ tonnes (or even more) units in different areas (especially deprived areas). The plan is to start operating at ٦۰ percent capacity in the first year and increase below capacity in the following years, respectively.

- The plan is to start operating at ٦۰ percent capacity in the first year and increase below capacity in the following years, respectively.

Year	First Year	Second Year	third year	forth year	Fifth year
Capacity(%)	٦۰ %	۷۰ %	۸۰ %	۹۰ %	۱۰۰ %
Production capacity (ton)	۹۰۰۰	۱۰۵۰۰	۱۲۰۰۰	۱۳۵۰۰	۱۵۰۰۰

prime cost	۵۹ million rials/Per kg –۲۰۵ Euro
Selling prices of products	۱۰۰ million rials/Per kg – ۳٤۷ Euro
Total Sales (Million Rials)	۱۵۰۰۰۰۰ million rials – ۵۲۰۸۳۳۳ Euro
Percentage of sales at the point head to head	٤۹
Profit (Million Rials)	٦۱۵۰۰۰ million rials – ۲۱۳۵٤۱۷ Euro
Gross Value Added (Million Rials)	٦۹۰٤٤۲ million rials - ۲۳۹۷۳٦۸ Euro
Net Value Added (Million Rials)	٦۳٦٤۰۱ million rials – ۲۲۰۹۷۲٦ Euro
Ratio of gross value added to total sales	۰/٤٦
Ratio of net added value to total sales	۰/٤۲
Ratio of gross value added to investment	۰,۸۵
Return of capital	۲,۵