



INVESTMENT OPPORTUNITIES IN INDUSTRY AND MINE SECTORS EAST AZARBAIJAN



East Azarbaijan
Investment Service Center

*INVESTMENT
OPPORTUNITIES
IN INDUSTRY
AND MINE
SECTORS*



*East Azerbaijan
Investment Service Center*





**IN THE
NAME
OF
ALLAH**

INVESTMENT OPPORTUNITIES IN INDUSTRY AND MINE SECTORS

Publisher: *Economic Affairs and Finance Organization of East Azarbaijan*

Project Manager: *Mr. Reza Hosseini,*

President of Economic Affairs and Finance Organization &

Vice-president of East Azarbaijan Investment Service Center

Design and Graphics: *Mr. Sina Masoomy*

Consultant: *Dorsa Sanat Tehran Consultant Company*

Supervised by: *Mr. Alireza Alipour, Ms. Zahra Jalili,*

Mr. Yousef Nazari and Arash Neghabani

Translated by: *Dorsa Sanat Tehran Consultant Company*

Edited by: *Mr. Mirzaei and Mrs. Madadi*

Published in: *2015, First Impression*

Print: *A'azam*

Lithography: *Babak*

Bookbinding: *Amin*

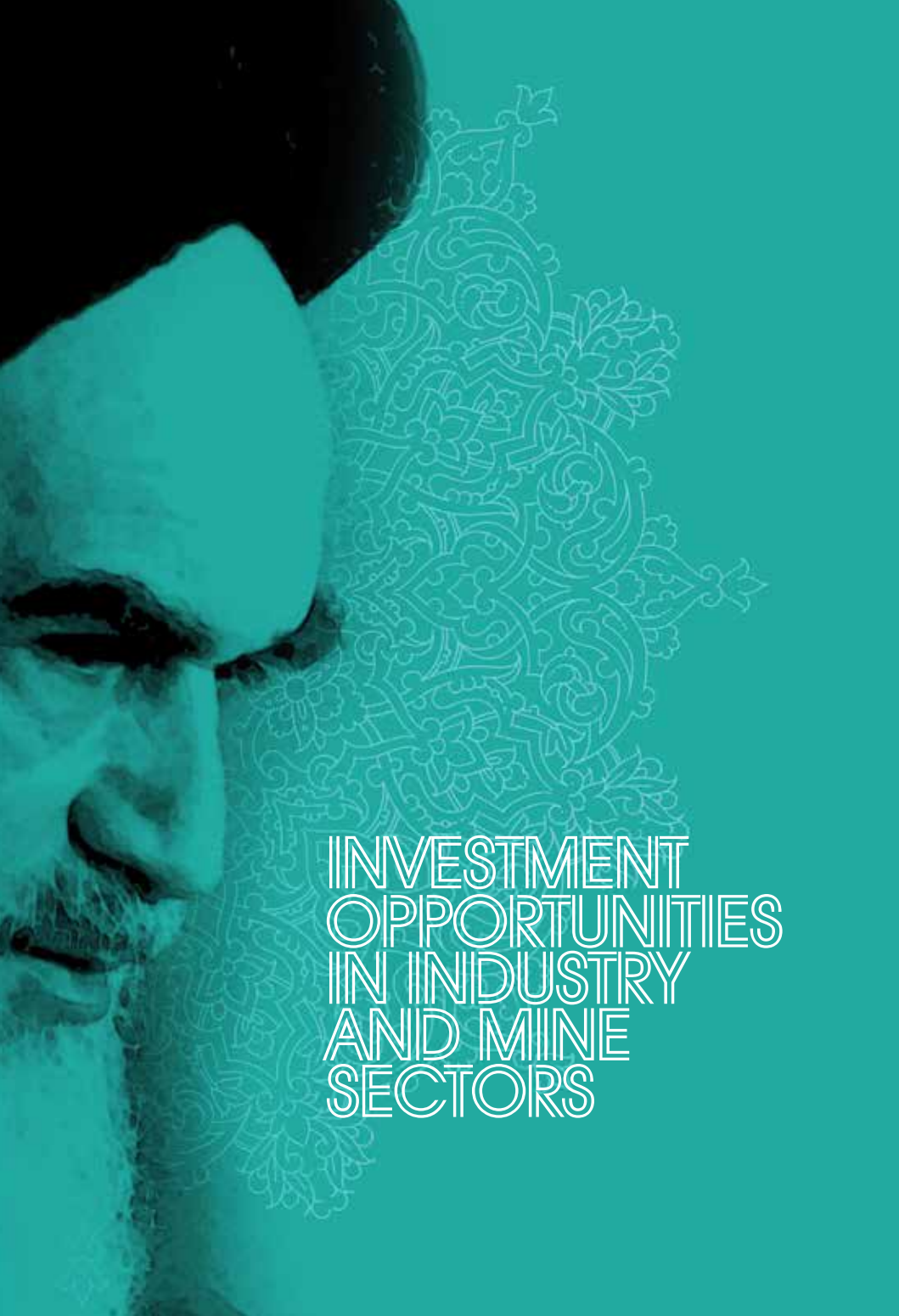
Circulation: *1000 Copies*

Address: *Economic Affairs and Finance Organization
of East Azarbaijan, Shohada Sq, Tabriz - IRAN*



East Azarbaijan
Investment Service Center





INVESTMENT
OPPORTUNITIES
IN INDUSTRY
AND MINE
SECTORS

INDEX



Graphite Electrode.....	12
Raw materials for antibiotics.....	16
Dolomite Refractory Bricks.....	18
Polyester Fibers using PET Wastes...20	
Glass Fiber.....	22
Natural Beta-Carotene.....	26
Tweedy Fabric.....	28
Solar Cell and Panel.....	30
Tire for different types of car.....	34
Alloy Steel.....	36
Sodium Carbonate.....	38
Medicinal Supplements.....	40
POY and FDY Yarns.....	42

Carpet Silk Yarn.....	46
Stretch Thread.....	48
Sodium Nitrate.....	50
Cold rolled sheet (oily sheet).....	52
Plastic Sheets.....	54
HPL CPL Sheets.....	56
Food Stabilizers.....	58
Mini Refinery.....	62
Tin-coated oily sheets.....	64
Perlite Bricks.....	66
Basalt Fibers.....	68
Enzymes used in detergents.....	70
Different Nano fabrics.....	72
Rachel Fabric.....	74
Egg Powder.....	76
Ornamental Modern Stone.....	80
Gray Cement.....	82
White Cement.....	84
Rhenium Metal.....	86
Heblex lightweight concrete.....	88
Artificial Joints (implants).....	90
Copper Alloy Sections.....	94
Lightweight Aggregates.....	96
Nepheline Syenite.....	98

Project title: Production of Graphite Electrode

Sector	Electrical machinery and devices (31)
Sub Sector	Construction of other electrical equipment (90)
Products / Services	Production of Graphite Electrode
location	Hashtrud Industrial Estate, Hashtrud
Project description:	<p>Production process: It consists of three stages. At the first stage, some sand and sieved and ground coke is mixed with melted bitumen, molded and then the combined materials are pressurized using a vibrator. At the second stage, the formed electrode is annealed in the furnace. Then, a coating of bitumen is added to the said compound and is annealed. At the third stage, an electrode carbon is changed to graphite at 300 degrees centigrade. Then, it is changed to a cylinder in intended diameter by lathe operations. Finally, a pin is installed on the head of electrode as socket.</p>
Land area	18000 m ²
Construction area	1050 m ²
Facilities cost	48040 million Rials
Annual capacity	<p>Nominal capacity: 10000 tons of graphite electrode in year Actual capacity: 8000 tons of graphite electrode in year</p>
Local / internal raw material access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	151,296	33,700	4.49	3.17	7.66
Working Capital	16,071	33,700	0.48	0	0.48
Total Investment	167,367	-	4.97	3.17	8.13

- Value of foreign equipment / machinery: 3.17 Million Euros
- Value of local equipment / machinery: 0 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 3.25 Million Euros in 10 years
- Internal Rate of Return (IRR): 45.56%
- Payback period: 2.89 years from start of construction
- Minimum Attractive Rate of Return: 30%

RAW MATERIALS FOR ANTIBIOTICS



East Azarbaijan
Investment Service Center





Project title: Production of raw materials for antibiotics

Sector	chemical products and materials (24)
Sub Sector	Pharmaceutical products, chemicals used in pharmaceutical and medicinal (23)
Products / Services	Biological production of penicillin G
location	Bostanabad Industrial Estate
Project description:	Industrial process to produce penicillin includes several stages. At first, penicillium crizo-genome (base of penicillin) is fermented under sterile conditions (controlled temperature and pH). Then, the obtained penicillin is filterocrystallized and turned to acid amino penicillinic-6 through enzyme-chemical procedures. In forthcoming stages and through more enzyme-chemical processes, different types of penicillin are produced such as ampicillin, too similar antibiotic to penicillin with more activity against warm bacteria. This production line is designed based on 4 reactors with 10,000 liters capacity of yeast fermentation per year, each reactor produces 37 patches per year.
Land area	5400 m ²
Construction area	3080 m ²
Facilities cost	9141 million Rials
Annual capacity	Nominal capacity: 34,388 kilogram penicillin G per year Actual capacity: 30,949 kilogram penicillin G per year
Local / internal raw materials access	80 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	41,061	34,038	1.21	0.00	1.21
Working Capital	1,538	34,038	0.05	0.00	0.05
Total Investment	42,598	-	1.25	0.00	1.25

- Value of foreign equipment / machinery: 0 Million Euros

- Value of local equipment / machinery: 0.09 Million Euros

- Value of foreign technical know-how: 0 Million Euros

- Value of local technical know-how: 0.15 Million Euros

- Net present value (NPV): 0.81 Million Euros in 10 years

- Internal Rate of Return (IRR): 36.21%

- Payback period: 2.5 years from start of construction

- Minimum Attractive Rate of Return: 25%

Project title: Production of Dolomite Refractory Bricks

Sector	Other Non-metallic mineral products (26)
Sub Sector	Production made of refractory ceramic materials (92)
Products / Services	Dolomite Bricks
location	Miyaneh, East Azarbaijn Province
Project description:	The mud obtained from the raw materials is poured into the mold to be pressurized and the intended form is achieved. In this production method, the moisture is about 7%. The bricks are taken to drying halls to be dried. They are put inside the trays so that they will be prepared to enter the furnace. Then, the obtained adobes are put on the specific wagons and enter the furnace. After they reach sufficient temperature and upon passage of the required time, the furnace is turned off and then, the furnace is cooled. Then, the furnace is discharged and packaged.
Land area	4500 m ²
Construction area	2550 m ²
Facilities cost	12821 million Rials
Annual capacity	Nominal capacity: 6912000 pieces of dolomite bricks in year Actual capacity: 5529600 pieces of dolomite bricks in year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	63,801	34,038	1.87	3.23	5.10
Working Capital	9,456	34,038	0.28	0.00	0.28
Total Investment	73,257	-	2.15	3.23	5.38

- Value of foreign equipment / machinery: 3.226 Million Euros
- Value of local equipment / machinery: 0.73 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0.03 Million Euros
- Net present value (NPV): 0.62 Million Euros in 10 years
- Internal Rate of Return (IRR): 34.9%
- Payback period: 4.89 years from start of construction
- Minimum Attractive Rate of Return: 30%

Project title: Production of polyester fibers using PET wastes

Sector	Manufacture of chemical materials and products (24)
Sub Sector	Production of synthetic fibers (30)
Products / Services	Production of Polyester fibers
location	Bilverdi (Heris) Industrial Estate, Heris
Project description:	The production method of the product consists of crushing and washing PET wastes by crusher and melting, stretching, making curls and waves, cutting and pressing as well as shaping the product in bulk.
Land area	6300 m ²
Construction area	3600 m ²
Facilities cost	16588 million Rials
Annual capacity	Nominal capacity: 6,000 tons in year Actual capacity: 4,800 tons in year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 70 % • Anticipated export market: 30 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	56,510	34,038	1.66	1.36	3.02
Working Capital	17,599	34,038	0.52	0.00	0.52
Total Investment	74,110	-	2.18	1.36	3.53
- Value of foreign equipment / machinery:	1.36 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	0 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	1.03 Million Euros in 10 years				
- Internal Rate of Return (IRR):	35%				
- Payback period:	4.86 years from start of construction				
- Minimum Attractive Rate of Return:	30%				

Project title: Production of Glass Fiber

Sector	Manufacture of non-metallic mineral products (26)
Sub Sector	Manufacture of Glass and Glass Products (10)
Products / Services	Production of Mat and Roving from Glass Fibers
Location	Sarab Industrial Estate, Sarab
Project description:	Production process of glass fibers consists of preparation and mixing the raw materials, melting the glass, fibers traction, sizing using resin coating, gathering the fibers and finally producing the final product (roving and mat) from glass fibers.
Land area	100000 m ²
Construction area	54600 m ²
Facilities cost	69011 million Rials
Annual capacity	Nominal capacity: 40,000 tons per year Actual capacity: 32,000 tons per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 80 % • Anticipated export market: 20 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	689,338	35,369	19.49	58.00	77.49
Working Capital	51,136	35,369	1.45	0.00	1.45
Total Investment	740,474	-	20.94	58.00	78.94
- Value of foreign equipment / machinery: 58 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 18.4 Million Euros in 10 years					
- Internal Rate of Return (IRR): 32.82%					
- Payback period: 2.61 years from start of construction (construction period will be 2 years)					
- Minimum Attractive Rate of Return: 25%					

NATURAL BETA- CAROTENE FROM CARROT



East Azarbaijan
Investment Service Center





Project title: Production of natural Beta-Carotene from carrot

Sector	Food products and drinks (15)
Sub Sector	Manufacture of other food products not classified anywhere else (49)
Products / Services	natural edible beta-carotene 10% as powder
location	Bostanabad, Bostanabad Industrial Estate
Project description:	After washing and rinsing in holding machine, carrot turns to jelly form by means of water vapor and then, hydrolysis and detoxification enzymes processes will be performed. Carrot enters deionization and de-colorization stages. After concentration at the end of process, the product takes its final shape as powder by means of spray dryer machine.
Land area	4000 m ²
Construction area	2200 m ²
Facilities cost	6261 million Rials
Annual capacity	Nominal capacity: 81,000 kilograms per year Actual capacity: 72,900 kilograms per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 40 % • Anticipated export market: 60 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	53,659	35,369	1.52	4.00	5.52
Working Capital	3,802	35,369	0.11	0.00	0.11
Total Investment	57,461	-	1.62	4.00	5.62
- Value of foreign equipment / machinery: 4 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 1.91 Million Euros in 10 years					
- Internal Rate of Return (IRR): 37.19%					
- Payback period: 2.66 years from start of construction					
- Minimum Attractive Rate of Return: 25%					

Project title: Production of tweedy fabric

Sector	Construction of textiles (17)
Sub Sector	Preparation and Spinning of textile fibers (11)
Products / Services	Production of Tweedy Fabric
location	Ajabshir Industrial Estate, Ajabshir
Project description:	The production method of tweedy fabric comprises warping, leasing, knitting, fabric control and measurement, darning, washing, felting, foulard, crabbing, cutting the surface of the fabric, pressing and fabric iron, wrapping cloth fabric and packaging.
Land area	9000 m ²
Construction area	5200 m ²
Facilities cost	15803 million Rials
Annual capacity	Nominal capacity: 2000000 meters in year Actual capacity: 1600000 meters in year
Local / internal raw materials access	0 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	87,168	35,106	2.48	4.22	6.71
Working Capital	44,545	35,106	1.27	0.00	1.27
Total Investment	131,713	-	3.75	4.22	7.98
- Value of foreign equipment / machinery:	4.22 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	0 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	2.93 Million Euros in 10 years				
- Internal Rate of Return (IRR):	39.91%				
- Payback period:	3.6 years from start of construction				
- Minimum Attractive Rate of Return:	30%				

Project title: Production of Solar Cell and Panel

Sector	Producing Electrical machinery and machines (31)
Sub Sector	Producing kinds of electromotor, generator and transformer (10)
Products / Services	Producing Solar Panel made from Silicon wafer
location	Bostanabad Industrial Estate
Project description:	During production of solar panels, at first silicon wafers are investigated to remove any possible imperfections, then wafers are entered into production line to be covered in various stages. At this stage, the product is framed by a mostly aluminum-made frame and sealed. Anti-radiation tests are the last stage of production.
Land area	6000 m ²
Construction area	3600 m ²
Facilities cost	6593 million Rials
Annual capacity	Nominal capacity: 83000 pieces of 250 W panels (equal to 20 Mega Watt) per year Actual capacity: 74700 pieces of panels (equal to 18 Mega Watt) in year
Local / internal raw materials access	15 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 50 % • Anticipated export market: 50 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	41,748	35,369	1.18	0.33	1.51
Working Capital	80,563	35,369	2.28	0.00	2.28
Total Investment	122,312	-	3.46	0.33	3.79
- Value of foreign equipment / machinery: 0.33 Million Euros					
- Value of local equipment / machinery: 3.17 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 0.54 Million Euros in 10 years					
- Internal Rate of Return (IRR): 36.71%					
- Payback period: 3.26 years from start of construction					
- Minimum Attractive Rate of Return: 30%					

TIRE FOR DIFFERENT TYPES OF CAR



East Azarbaijan
Investment Service Center



Project title: Producing kinds of tire for different types of cars

Sector	Producing goods from rubber and plastic (25)
Sub Sector	Producing inner and outer rubber, re-coating and re-producing rubber (11)
Products / Services	Producing tires for light and heavy vehicles
location	30 kilometers of Tabriz-Azarshar Road, Tabriz
Project description:	Tires are produced by putting the layers of rubber on each other. These layers are pressed heavily in high temperature and are strengthened by metal layers. Tire enters processing machine in the next stage. This machine performs total operation including cooking, molding marks and codes of tire and tire treading. Heating layers, this machine sticks all layers together. This process is called tire welding. Tire will be ready after total checkout and review. Layers are arranged in different forms in a tire most common of which are angled, intersecting and radial. This project produces radial tires.
Land area	68000 m ²
Construction area	40500 m ²
Facilities cost	110138 million Rials
Annual capacity	Nominal capacity: 2500000 rings of car tires and 200000 rings of truck and bus tires per year Actual capacity: 2000000 rings of car tires and 160000 rings of truck and bus tires per year
Local / internal raw materials access	70 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 90 % • Anticipated export market: 10 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	761,799	34,038	22.38	41.89	64.27
Working Capital	337,004	34,038	9.90	0.00	9.90
Total Investment	1,098,803	-	32.28	41.89	74.17

- Value of foreign equipment / machinery: 41.89 Million Euros
- Value of local equipment / machinery: 0 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 25.09 Million Euros in 10 years
- Internal Rate of Return (IRR): 44.37%
- Payback period: 3.04 years from start of construction
- Minimum Attractive Rate of Return: 30%

Project title: Production Alloy Steel

Sector	Producing basic metals (27)
Sub Sector	Producing basic iron and steel (10)
Products / Services	Producing alloyed steel goods
location	Bostanabad Industrial Estate, Bostanabad County
Project description:	This production process includes sponge iron and scrap metal melting in electric arc furnace, and adding required elements such as manganese, nickel and chrome to produce fittings, belt and hank.
Land area	100000 m ²
Construction area	59800 m ²
Facilities cost	83918 million Rials
Annual capacity	Nominal capacity: 250000 ton in year Actual capacity: 200000 ton in year
Local / internal raw materials access	80 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 80 % • Anticipated export market: 20 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	857,837	34,038	25.20	30.00	55.20
Working Capital	317,790	34,038	9.34	0.00	9.34
Total Investment	1,175,627	-	34.54	30.00	64.54

- Value of foreign equipment / machinery: 30 Million Euros
- Value of local equipment / machinery: 3.17 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 26.75 Million Euros in 10 years
- Internal Rate of Return (IRR): 45.75%
- Payback period: 2.87 years from start of construction
- Minimum Attractive Rate of Return: 30%

Project title: Producing Sodium Carbonate

Sector	producing of chemical products and materials (24)
Sub Sector	Producing basic chemicals, except fertilizers and nitrogen (11)
Products / Services	Production of Sodium Carbonate (24112016)
Location	Maragheh Industrial Estate, Maragheh
Project description:	Production process includes two stages. At first, water vapor (H_2O), carbon dioxide gas (CO_2), salt and ammonia are mixed to produce sodium bicarbonate ($NaHCO_3$) and ammonium chloride (NH_4Cl). Then, sodium bicarbonate is turned to sodium carbonate (Na_2CO_3), CO_2 and water vapor.
Land area	30000 m ²
Construction area	17300 m ²
Facilities cost	122124 million Rials
Annual capacity	Nominal capacity: 200,000 tons sodium carbonate and 200,000 tons ammonium chloride per year Actual capacity: 140,000 tons sodium carbonate and 140,000 tons ammonium chloride per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	944,992	33,700	28.04	103.24	131.29
Working Capital	122,139	33,700	3.62	0.00	3.62
Total Investment	1,067,131	-	31.67	103.24	134.91
- Value of foreign equipment / machinery: 103.24 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 37.27 Million Euros in 10 years					
- Internal Rate of Return (IRR): 39.78%					
- Payback period: 2.09 years from start of construction					
- Minimum Attractive Rate of Return: 25%					

Project title: Production of Nutritional and Medicinal Supplements

Sector	Food products and drinks (15)
Sub Sector	Manufacturing other food products not classified anywhere else (49)
Products / Services	Production of Medicinal Supplements
location	Bostanabad Industrial Estate, Bostanabad
Project description:	During the production process, first, milgroalge powder including spirulina and chlorella are homogenized by a homogenizer machine and then, it soft-gel capsules are formed and at last, they are pressed and packed as medicinal supplements.
Land area	5000 m ²
Construction area	2750 m ²
Facilities cost	8762 million Rials
Annual capacity	Nominal capacity: 60,000 kilograms Medicinal Supplements per year Actual capacity: 48,000 kilograms Medicinal Supplements per year
Local / internal raw materials access	0 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	30,618	34,052	0.90	1.10	2.00
Working Capital	21,232	34,052	0.62	0.00	0.62
Total Investment	51,850	-	1.52	1.10	2.62
- Value of foreign equipment / machinery:	1.1 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	0 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	0.38 Million Euros in 10 years				
- Internal Rate of Return (IRR):	35.41%				
- Payback period:	2.57 years from start of construction				
- Minimum Attractive Rate of Return:	30%				

Project title: Production of POY and FDY Yarns

Sector	Construction of textiles (17)
Sub Sector	Preparation and Spinning of textile fibers (11)
Products / Services	Production of POY and FDY polyester yarns
location	Bostanabad Industrial Estate 2, Bostanabad
Project description:	<p>POY Yarn: Production procedure of this product includes six stages including crystallization of pet chips, drying the chips, melting the chips in the extruder, filtration of molten polymer, passage of molten polymer through the machine head and cooling of the produced yarn.</p> <p>FDY Yarn: The produced POY yarn is changed to FDY yarn by pulling and heating operations.</p>
Land area	4000 m ²
Construction area	2350 m ²
Facilities cost	12236 million Rials
Annual capacity	<p>Nominal capacity: 2400 tons of POY and FDY Yarn per year</p> <p>Actual capacity: 2160 tons of FDY and POY Yarn per year</p>
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 20 % • Anticipated export market: 80 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	42,490	33,700	1.26	1.17	2.43
Working Capital	21,898	32,729	0.65	0	0.65
Total Investment	64,388	-	1.91	1.17	3.08
- Value of foreign equipment / machinery: 1.17 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 0.72 Million Euros in 10 years					
- Internal Rate of Return (IRR): 33.41%					
- Payback period: 5.06 years from start of construction					
- Minimum Attractive Rate of Return: 25%					

CARPET SILK YARN



East Azerbaijan
Investment Service Center



Project title: Production of Carpet Silk Yarn

Sector	Manufacture of textiles (17)
Sub Sector	Preparation and spinning of textile fibers for weaving of textiles (11)
Products / Services	Production of Carpet Silk Yarn
location	Ajabshir Industrial Estate, Ajabshir
Project description:	The procedure to produce silk yarn includes selection, shutting and drying cocoons, fluff removal, cocoon screening, mixing and baking, brushing, silk warping, skinning, soaking, twisting and packaging.
Land area	8000 m ²
Construction area	4300 m ²
Facilities cost	12077 million Rials
Annual capacity	Nominal capacity: 100 tons in year Actual capacity: 75 tons in year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	58,355	33,386	1.75	1.60	3.35
Working Capital	16,061	33,386	0.48	0.00	0.48
Total Investment	74,416	-	2.23	1.60	3.83

- Value of foreign equipment / machinery: 1.6 Million Euros
- Value of local equipment / machinery: 0.420 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 1.55 Million Euros in 10 years
- Internal Rate of Return (IRR): 37.49%
- Payback period: 2.66 years from start of construction
- Minimum Attractive Rate of Return: 25%

Project title: Production of stretch thread

Sector	Manufacture of textiles (17)
Sub Sector	reparation and spinning of textile fibers for weaving of textiles (11)
Products / Services	Stretch Thread (textured)
location	Maragheh Industrial Estate, Maragheh
Project description:	<p>Production stages go as follows:</p> <ol style="list-style-type: none"> 1. Preparation of POY Thread 2. Texturizing POY thread 3. Cooling and change to DTY thread <p>The production method of stretch thread (DTY) is as follows: First POY thread is stretched in the form of smooth and semi-stretched strings. These strings have the capability of traction and forming. They will be fed into forming equipment. Forming POY thread is called "Texturizing". There are eight methods for texturizing POU thread. One of the common methods in industry is called "Virtual Twist Texturizing". Traction and heat cause temporary chains be broken. After twist of thread, the broken chains are changed into zigzag form. Simultaneously, they are cooled. Then, the twist is un-twisted and the thread finds crimp form and remains in the same state and eventually, stretch thread (DTY) is produced.</p>
Land area	4000 m ²
Construction area	2300 m ²
Facilities cost	13304 million Rials
Annual capacity	Nominal capacity: 14,400 tons in year Actual capacity: 12,960 tons in year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	49,160	34,265	1.43	2.04	3.47
Working Capital	90,539	34,265	2.64	0.00	2.64
Total Investment	139,699	-	4.08	2.04	6.12
- Value of foreign equipment / machinery:	2.04 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	0 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	1.43 Million Euros in 10 years				
- Internal Rate of Return (IRR):	34.23%				
- Payback period:	5.31 years from start of construction				
- Minimum Attractive Rate of Return:	25%				

Project title: Producing Sodium Nitrate

Sector	Producing chemical products and material (24)
Sub Sector	Producing basic chemicals, except fertilizers and nitrogen (2411)
Products / Services	Sodium Nitrate
location	Ajabshir Industrial Estate
Project description:	Method of Production: Quality control of raw material, weighing and mixing material, heating and drying products, quality control of product, packing and transportation.
Land area	1500 m ²
Construction area	550 m ²
Facilities cost	1016 million Rials
Annual capacity	Nominal capacity: 1200 tons per year Actual capacity: 960 tons year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	8,219	33,928	0.24	0.00	0.24
Working Capital	2,136	33,928	0.06	0.00	0.06
Total Investment	10,355	-	0.31	0.00	0.31

- Value of foreign equipment / machinery: 0 Million Euros

- Value of local equipment / machinery: 0.04 Million Euros

- Value of foreign technical know-how: 0 Million Euros

- Value of local technical know-how: 0 Million Euros

- Net present value (NPV): 0.01 Million Euros in 10 years

- Internal Rate of Return (IRR): 32.69%

- Payback period: 2.97 years from start of construction

- Minimum Attractive Rate of Return: 30%

Project title: Producing cold rolled coils (oiled sheet)

Sector	Producing basic metals (27)
Sub Sector	Producing basic iron and steel (10)
Products / Services	Cold Rolled Coils (Oiled sheets)
location	Ajabshir Industrial Estate, Ajabshir
Project description:	Pickling operation is performed on hot rolled sheets (black sheets) and then, biliner rolling process is performed to reduce thickness of sheet. The product is rewinded in cold rolling process line in order to decrease tensions due to torsion and to cutting-edge of coils and sending to annealing line. In annealing line, thermal and annealing operation of coils is performed in order to improve and integrate metallurgical structure and to achieve required mechanical qualities. To create hardness and roughness on sheet surface and also to improve smoothness and mechanical qualities, the annealed product will be passed through four roller single-shelf rolling shell. At the end, total flattening operation, wave-removing and edge-cutting will be performed on cold rolled sheet and consequently, surface of sheets will be greased to avoid corrosion.
Land area	80000 m ²
Construction area	46800 m ²
Facilities cost	737391 million Rials
Annual capacity	Nominal capacity: 550000 tons of cold rolled sheet in year Actual capacity: 522500 tons of cold rolled sheet in year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	1,537,979	34,038	45,18	53.02	98.20
Working Capital	1,237,933	34,038	36,37	0	36.37
Total Investment	2,775,912	-	81,55	53.02	134.57
- Value of foreign equipment / machinery: 53.02 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 43.83 Million Euros in 10 years					
- Internal Rate of Return (IRR): 44.8%					
- Payback period: 3.12 years from start of construction					
- Minimum Attractive Rate of Return: 30%					

Project title: Producing Plastic Sheets with Ion Exchange Properties

Sector	Producing goods from rubber & plastic (25)
Sub Sector	Producing plastic goods (20)
Products / Services	Plastic Sheets with Ion Exchange Properties
location	Bostanabad Industrial Estate, Bostanabad
Project description:	A brief summary on production procedure: The production process of this product includes six stages: material mixer, extrusion, calendaring, extraction of lubricants and cooling, cutting and rolling.
Land area	5000 m ²
Construction area	2800 m ²
Facilities cost	7836 million Rials
Annual capacity	Nominal capacity: 10800000 square meters per year Actual capacity: 8640000 square meters per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 50 % • Anticipated export market: 50 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller/ builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	47,786	35,106	1.36	1.90	3.26
Working Capital	20,105	35,106	0.57	0	0.57
Total Investment	67,891	-	1.93	1.90	3.83
- Value of foreign equipment / machinery:	1.9 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	0 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	1.61 Million Euros in 10 years				
- Internal Rate of Return (IRR):	39.77%				
- Payback period:	2.6 years from start of construction				
- Minimum Attractive Rate of Return:	25%				

Project title: Production of HPL CPL sheets

Sector	Construction of coating sheets, layer board, Neopan and other panels and boards (21)
Sub Sector	Wood and wooden products, except armchairs (20)
Products / Services	Production of HPL CPL Sheets
Location	Bostanabad Industrial Estate, Bostanabad
Project description:	HPL CPL sheets are made by putting craft cellulose papers together as the core of pressed pages, decorated paper, and anti-abrasive and anti-UV glossy covers. These papers are bound together using melamine and formaldehyde resins. First, the craft papers enter the system through loading ten rolls. Then, they will be cut in proper size and enter pressurized press stage at high temperature for 120 seconds. Then, vector loading is done.
Land area	2800 m ²
Construction area	1600 m ²
Facilities cost	5119 million Rials
Annual capacity	Nominal capacity: 72000 square meters of HPL (CPL) sheet in year Actual capacity: 57600 square meters of HPL (CPL) sheet in year
Local / internal raw materials access	80 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	19,546	34,038	0.57	0.31	0.88
Working Capital	3,318	34,038	0.10	0	0.10
Total Investment	22,864	-	0.67	0.31	0.98
- Value of foreign equipment / machinery: 0.31 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 0.44 Million Euros in 10 years					
- Internal Rate of Return (IRR): 39.6%					
- Payback period: 2.5 years from start of construction					
- Minimum Attractive Rate of Return: 25%					

Project title: Production of Food Stabilizers

Sector	Food products and drinks (15)
Sub Sector	Producing other food products not classified elsewhere (49)
Products / Services	stabilizer of strained yoghurt
location	Ajabshir Industrial Estate
Project description:	A brief summary on production procedure: Raw material with a certain level of purity based on the type of produced stabilizer will be mixed in the first part of production line, then moves toward baking and homogenization stages and at last, packaging stage.
Land area	2500 m ²
Construction area	1500 m ²
Facilities cost	7129 million Rials
Annual capacity	Nominal capacity: 4000 tons per year Actual capacity: 3600 tons per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 80 % • Anticipated export market: 20 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	26,871	34,052	0.79	0.00	0.79
Working Capital	79,195	34,052	2.33	0.00	2.33
Total Investment	106,066	-	3.11	0.00	3.11

- Value of foreign equipment / machinery: 0 Million Euros
- Value of local equipment / machinery: 0.1 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 1000 Million Rials
- Net present value (NPV): 0.05 Million Euros in 10 years
- Internal Rate of Return (IRR): 30.8%
- Payback period: 4.16 years from start of construction
- Minimum Attractive Rate of Return: 30%

ESTABLISHMENT OF MINI REFINERY



East Azerbaijan
Investment Service Center





Project title: Establishing Mini Refinery

Sector	-
Sub Sector	-
Products / Services	Petrol, Gasoline, Naphtha, Oil Sludge, Mazut
location	Aras Free Zone
Project description:	In continuous units, distillation process is performed in multi stages as followings: First distillation, second distillation, third distillation, finishing unit
Land area	64000 m ²
Construction area	35400 m ²
Facilities cost	29386 million Rials
Annual capacity	<ul style="list-style-type: none"> • Nominal capacity of petrol: 48000 tons per year and practical capacity: 43200 tons per year • Nominal capacity of gasoline: 96000 tons per year and practical capacity: 86400 tons per year • Nominal capacity of naphtha: 60000 tons per year and practical capacity: 54000 tons per year • Nominal capacity of mazut: 12000 tons per year and practical capacity: 10800 tons per year • Nominal capacity of oil sludge: 24000 tons per year and practical capacity: 21600 tons per year
Local /internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 0 % • Anticipated export market: 100 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	511,135	35,184	14.53	27.80	42.33
Working Capital	509,842	35,184	14.49	0.00	14.49
Total Investment	1,020,977	-	29.02	27.80	56.82
- Value of foreign equipment / machinery: 27.8 Million Euros					
- Value of local equipment / machinery: 2.6 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 22.34 Million Euros in 10 years					
- Internal Rate of Return (IRR): 38.57%					
- Payback period: 2.65 years from start of construction					
- Minimum Attractive Rate of Return: 25%					

Project title: Producing tin-coated cold rolled coils (tin plated oiled sheets)

Sector	Producing basic metals (27)
Sub Sector	Producing basic iron and steel (10)
Products / Services	Production of tin-coated oily sheets (tin plate)
location	Ajabshir Industrial Estate, Ajabshir
Project description:	A brief summary on production procedure: Extra edges of coils may be cut after opening. Strips must be welded to save continuity of coils during production line. Curvature of opened strips will be flatted passing through rollers. Further operations including traction, heating, washing, drying and neutralization of static electricity will be performed to prepare sheets to be coated by tin. Other operations including drying, finishing, oiling the surface of strip, control and investigation and packing products in coil or bundle modes will be performed at last stage.
Land area	10000 m ²
Construction area	6000 m ²
Facilities cost	53253 million Rials
Annual capacity	Nominal capacity: 140000 tons of tinplate per year Actual capacity: 126000 tons of tinplate per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	192,344	34,038	5.65	11.37	17.02
Working Capital	354,323	34,038	10.41	0.00	10.41
Total Investment	546,667	-	16.06	11.37	27.43
- Value of foreign equipment / machinery: 11.37 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 3.22 Million Euros in 10 years					
- Internal Rate of Return (IRR): 35.8%					
- Payback period: 3.78 years from start of construction					
- Minimum Attractive Rate of Return: 30%					

Project title: Producing Perlite Bricks (Acoustic Insulator)

Sector	Other non-Metallic Mineral Products (26)
Sub Sector	Manufacture of Concrete, Cement and Plaster Products (95)
Products / Services	Perlite Processing (Expanded Perlite) and Production of Perlite Bricks
location	Kaghazkonan Industrial Estate, Miyaneh
Project description:	First, raw perlite is changed into the expanded perlite that is the raw material of this kind of brick using the furnace. Production process of this type of brick is carried out after expanded perlite mixture is prepared and cement enters forming stage of the mixture by vacuum and mixer machine, then it is pressed and cut. Finally, the obtained adobe is transferred into drying hall.
Land area	7000 m ²
Construction area	4250 m ²
Facilities cost	6009 million Rials
Annual capacity	Nominal capacity: 28,800,000 molds per year Actual capacity: 23,040,000 molds per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 50 % • Anticipated export market: 50 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	63,468	35,327	1.80	0.00	1.80
Working Capital	10,231	35,327	0.29	0.00	0.29
Total Investment	73,699	-	2.09	0.00	2.09

- Value of foreign equipment / machinery: 0 Million Euros
- Value of local equipment / machinery: 0.55 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 0.42 Million Euros in 10 years
- Internal Rate of Return (IRR): 31.36%
- Payback period: 3.07 years from start of construction (construction period will be 2 years)
- Minimum Attractive Rate of Return: 30%

Project title: Production of Basalt Fibers

Sector	Wood and wooden products, except armchairs (20)
Sub Sector	Other non-metallic mineral products not classified anywhere else (99)
Products / Services	Production of Basalt Fibers (products made of basalt fibers-26991422)
location	Varzaqan Industrial Estate
Project description:	<p>Production stages go as follows:</p> <ol style="list-style-type: none"> 1. Preparation of Basalt Stone; 2. Melting the materials for producing continuous fibers; 3. Continuous spinning of fibers. <p>The production method of Basalt Fibers is the same as that of glass fibers. However, its raw material is made of basalt stones. On a whole, producing the basalt fibers is more difficult than that of glass fibers since it is opaque. Thus, on the whole, after basalt stone is prepared, materials are melted under certain conditions and after continuous spinning of fibers, the final product is packaged.</p>
Land area	15000 m ²
Construction area	6950 m ²
Facilities cost	31606 million Rials
Annual capacity	Nominal capacity: 3000 tons in year Actual capacity: 2700 tons in year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	174,815	35,327	4.95	11.50	16.45
Working Capital	9,393	35,327	0.27	0.00	0.27
Total Investment	184,208	-	5.21	11.50	16.71
- Value of foreign equipment / machinery:	11.5 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	1 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	2.44 Million Euros in 10 years				
- Internal Rate of Return (IRR):	28.32%				
- Payback period:	2 years from start of construction				
- Minimum Attractive Rate of Return:	25%				

Project title: Production of Enzymes used in detergents

Sector	production of chemical products and materials (24)
Sub Sector	production of Basic chemicals, except fertilizers and nitrogen (11)
Products / Services	Production of Protease, Lipase, Cellulose and Amylase Enzymes
location	Bostanabad-Bostanabad Industrial Estate 2
Project description:	Production process includes separation of industrial strains (strains are germs producing other germs), correction and stability of strains, preparation of fermentation medium, fermentation process, cell destruction, recycled products, sedimentation, filtration and drying.
Land area	4800 m ²
Construction area	2700 m ²
Facilities cost	10075 million Rials
Annual capacity	Nominal capacity: 100 tons per year Actual capacity: 90 tons per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	51,052	34,489	1.48	0.60	2.08
Working Capital	9,103	34,489	0.26	0.00	0.26
Total Investment	60,154	-	1.74	0.60	2.34
- Value of foreign equipment / machinery:	0.6 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	0.29 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	0.45 Million Euros in 10 years				
- Internal Rate of Return (IRR):	30.03%				
- Payback period:	3.71 years from start of construction				
- Minimum Attractive Rate of Return:	30%				

Project title: Production of Different Antimicrobial, Anti-spot and Fireproof Nano fabrics	
Sector	Manufacture of textiles (17)
Sub Sector	Manufacture of other textiles not classified anywhere else (29)
Products / Services	different antimicrobial, anti-spot and fireproof Nano-fabrics
location	Bilverdi Industrial Estate, Heris
Project description:	In the present project, the intended supplementary solutions are formulated and produced first. Then, raw fabric is processed in different phases by the solutions and finally, the end product is dehydrated, dried and stabilized.
Land area	4000 m ²
Construction area	2350 m ²
Facilities cost	8165 million Rials
Annual capacity	Nominal capacity: 2,025000 m ² of Fire proof Fabrics, and 2,025,000 m ² of antimicrobial and anti-spot Nano fabrics per year. Actual capacity: 2,250,000 m ² of Fire proof Fabrics, and 2,025,000 m ² of antimicrobial and anti-spot Nano fabrics per year.
Local / internal raw mateRials access	80 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 60 % • Anticipated export market: 40 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	34,697	33,693	1.03	0.95	1.98
Working Capital	26,239	33,693	0.78	0.00	0.78
Total Investment	60,937	-	1.81	0.95	2.76
- Value of foreign equipment / machinery:	0.95 Million Euros				
- Value of local equipment / machinery:	0 Million Euros				
- Value of foreign technical know-how:	0 Million Euros				
- Value of local technical know-how:	0 Million Euros				
- Net present value (NPV):	0.46 Million Euros in 10 years				
- Internal Rate of Return (IRR):	30.75%				
- Payback period:	3.29 years from start of construction				
- Minimum Attractive Rate of Return:	30%				

Project title: Production of Rachel Fabric

Sector	Manufacture of textiles (17)
Sub Sector	Production of fabrics and knitted goods (30)
Products / Services	Production of Rachel Fabric
location	Ajabshir Industrial Estate, Ajabshir
Project description:	Production method: Warp circular weaving is a kind of knitting wherein the fabric structure is made of certain circulars lying along with wrap of fabric. The production process of this kind of fabric is to use Jacquard design mechanism including warping, knitting, completing, dimensional stabilizing, measurement, and rolling and finally packaging the fabric.
Land area	4500 m ²
Construction area	2500 m ²
Facilities cost	8556 million Rials
Annual capacity	Nominal capacity: 3,420,000 meters length per year Actual capacity: 2,736,000 meters length per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 60 % • Anticipated export market: 40 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	113,584	35,369	3.21	12.10	15.31
Working Capital	16,518	35,369	0.47	0.00	0.47
Total Investment	130,102	-	3.68	12.10	15.78
- Value of foreign equipment / machinery: 11.01 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 4.93 Million Euros in 10 years					
- Internal Rate of Return (IRR): 36.59%					
- Payback period: 2.73 years from start of construction					
- Minimum Attractive Rate of Return: 25%					

Project title: Production of Egg Powder

Sector	Food products and Drinks (15)
Sub Sector	Manufacturing other food products not classified anywhere else (49)
Products / Services	Production of Albumen Powder, Yolk Powder, and Eggshell Powder
location	Maragheh, Maragheh Industrial Estate
Project description:	Method of Production: Breaking egg, sorting, separating eggshell from contents, separation system, filtration, cooling, and pasteurization, drying and packing.
Land area	5000 m ²
Construction area	2900 m ²
Facilities cost	6083 million Rials
Annual capacity	<ul style="list-style-type: none"> • Albumen Powder: Nominal capacity of 300 tons per year and Actual capacity of 270 tons per year • Yolk Powder: Nominal capacity of 700 tons per year and Actual capacity of 630 tons per year • Eggshell Powder: Nominal capacity of 799 tons per year and Actual capacity of 719 tons per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 50 % • Anticipated export market: 50 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	96,057	35,184	2.73	0.32	3.05
Working Capital	22,149	35,184	0.63	0.00	0.63
Total Investment	118,206	-	3.36	0.32	3.68
- Value of foreign equipment / machinery: 0.32 Million Euros					
- Value of local equipment / machinery: 1.51 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 0.77 Million Euros in 10 years					
- Internal Rate of Return (IRR): 30.54%					
- Payback period: 3.11 years from start of construction					
- Minimum Attractive Rate of Return: 30%					

ORNAMENTAL MODERN STONE



East Azerbaijan
Investment Service Center



Project title: Production of Ornamental Modern Stone

Sector	Other non-metallic mineral products (26)
Sub Sector	Cutting and shaping and finishing of stone (96)
Products / Services	Production of mosaic and antique stones
location	Ajabshir Industrial Estate
Project description:	Antique stone is produced by putting broken stones and rubbles together (wastes and Travertine waste stones), stuck together by using the mortars of resin base. In other words, mortars are made by using and combining wastes of Travertine ornamental stones using other trivial additives. Cutting the stone, putting them together and sticking colorful stones to create a pattern using cutting and abrasion is called "mosaic work on stone". The patterns used in mosaic work on tiles are traditional, Arabesque, Angelica and even other various scripts and patterns. Considering mosaic work on stone, different kinds of marble, travertine and semi-granite stones are used. Its application is for residential and trading building complexes, lobbies and floor of elevator enclosure.
Land area	4000 m ²
Construction area	2250 m ²
Facilities cost	10292 million Rials
Annual capacity	Nominal capacity: 6250 square meters of mosaic stone and 105000 square meters of antique stone in a year Actual capacity: 5000 square meters of mosaic stone and 84000 square meters of antique stone in a year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 80 % • Anticipated export market: 20 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	34,664	34,276	1.01	0.50	1.51
Working Capital	4,196	34,276	0.12	0.00	0.12
Total Investment	38,860	-	1.13	0.50	1.63
- Value of foreign equipment / machinery: 0.5 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV):0.8 Million Euros in 10 years					
- Internal Rate of Return (IRR): 37.30%					
- Payback period: 2.5 years from start of construction					
- Minimum Attractive Rate of Return: 25%					

Project title: Production of Gray Cement

Sector	Other non-metallic mineral products (26)
Sub Sector	Manufacture of cement, lime and plaster (94)
Products / Services	Production of Gray Cement (26941112)
location	Maragheh Industrial Estate, Maragheh
Project description:	<p>Production Method:</p> <ol style="list-style-type: none"> 1.Extraction and transfer of raw materials 2.Preparation of materials (stonecutting) 3.Sampling 4.Raw materials mix hall (transport and storing the raw materials) 5.Bunkers for feeding the raw materials 6.Grinding the raw materials (raw materials mix) 7.Reserving raw materials (silos of raw materials) 8.Preparing the raw materials for arrival to the furnace and annealing (pre-warming) 9.Furnace for annealing raw materials and cooler 10.Clinker silos 11.Cement grinding part and cement production 12.Reserving cement and delivery of the said cement (cement silos and loading plant).
Land area	100 hectares
Construction area	483750 m ²
Facilities cost	183372 million Rials
Annual capacity	<p>Nominal capacity: 1,050,000 tons clinker per year, equivalent to 1,102,500 tons gray cement per year</p> <p>Actual capacity: 1,047,375 tons gray cement per year</p>
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 50 % • Anticipated export market: 50 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	1,548,221	35,327	43.83	35.00	78.83
Working Capital	84,592	35,327	2.39	0.00	2.39
Total Investment	1,632,813	-	46.22	35.00	81.22

- Value of foreign equipment / machinery: 35 Million Euros
- Value of local equipment / machinery: 12.23 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 4.93 Million Euros in 10 years
- Internal Rate of Return (IRR): 21.32%
- Payback period: 3.25 years from start of construction
- Minimum Attractive Rate of Return: 20%

Project title: Production of White Cement	
Sector	Other non-metallic mineral products (26)
Sub Sector	Manufacture of cement, lime and plaster (94)
Products / Services	White Cement (26941113)
location	A piece of land in vicinity of a mine with facilities such gas and electricity located in Sarab
Project description:	Clinker or white cement is produced by mixing iron ore and a silicate material (Kaolin) and an additional material such as silica and then by softening and annealing the said mixture in rotating furnaces to about 1600 degrees centigrade. The obtained clinker reaches the desirable softness in cement grinder. Then, it is packaged and offered to consumption market.
Land area	500000 m ²
Construction area	20,000 m ³ reinforced concrete and 3500 tone of metal frame
Facilities cost	72143 million Rials
Annual capacity	Nominal capacity: 198,000 tons of Clinker in year, equal to 220,770 tons of white cement Actual capacity: 209,732 tons of white cement per year
Local / internal raw mateRials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 50 % • Anticipated export market: 50 %
Total time to finish the project	3 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	652,013	35,327	18.46	15.00	33.46
Working Capital	31,805	35,327	0.90	0.00	0.90
Total Investment	683,818	-	19.36	15.00	34.36

- Value of foreign equipment / machinery: 15 Million Euros
- Value of local equipment / machinery: 1.9 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 3.39 Million Euros in 10 years
- Internal Rate of Return (IRR): 22.11%
- Payback period: 3.14 years from start of construction
- Minimum Attractive Rate of Return: 20%

Project title: Production of Rhenium Metal

Sector	Manufacturing chemical substances and products (24)
Sub Sector	Manufacturing nitrogen fertilizer and compounds (12)
Products / Services	Production of Rhenium Metal
Location	Varzaqan Industrial Estate
Project description:	Firstly, the molybdenum sulfide resulted from copper ore roasting process, is converted to molybdenum oxide through concentration. Rhenium salts, as a by-product of these oxides, can be achieved by separation of ions, and finally the crystallization process, in the mixer settler extraction towers, or by other methods of concentration and extraction. Finally, by reducing the salt in the presence of hydrogen in the CVD reactor, rhenium metal is obtained.
Land area	4800 m ²
Construction area	2650 m ²
Facilities cost	16610 million Rials
Annual capacity	<ul style="list-style-type: none"> • Nominal capacity: 1,333,300 kg of Molybdenum Oxide and 373 kg of Rhenium Metal tons per year • Actual capacity: 1,066,600 kg of Molybdenum Oxide and 299 kg of Rhenium Metal tons per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 10 % • Anticipated export market: 90 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	56,328	32,515	1.73	1.14	2.87
Working Capital	53,421	32,515	1.64	0.00	1.64
Total Investment	109,748	-	3.38	1.14	4.52
- Value of foreign equipment / machinery: 0.76 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0.38 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 0.54 Million Euros in 10 years					
- Internal Rate of Return (IRR): 35.4%					
- Payback period: 3.16 years from start of construction					
- Minimum Attractive Rate of Return: 30%					

Project title: Production of Heblex lightweight concrete pieces

Sector	Construction of production made of refractory ceramic materials (92)
Sub Sector	Other non-metallic mineral products (26)
Products / Services	Production of Heblex lightweight concrete pieces
location	Bostanabad Industrial Estate, Bostanabad
Project description:	Production process: Heblex is a mixture of silica, cement, lime and aluminum powder which is cooked in autoclaves in a heat of 200° C and a pressure of 12atm, and then is chopped into pieces required for construction.
Land area	5000 m ²
Construction area	2900 m ²
Facilities cost	7113 million Rials
Annual capacity	Nominal capacity: 135000 m ³ of Heblex lightweight concrete pieces in year Actual capacity: 121500 m ³ of Heblex lightweight concrete pieces in year
Local / internal raw materials access	0 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	49,031	33,837	1.45	2.40	3.85
Working Capital	6,113	33,837	0.18	0.00	0.18
Total Investment	55,143	-	1.63	2.40	4.03
- Value of foreign equipment / machinery: 2.4 Million Euros					
- Value of local equipment / machinery: 0 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 0.56 Million Euros in 10 years					
- Internal Rate of Return (IRR): 35.25%					
- Payback period: 2.63 years from start of construction					
- Minimum Attractive Rate of Return: 30%					

Project title: Artificial Hip and Artificial Joints (implants)

Sector	Medical instruments- Optical- Accurate-watches (33)
Sub Sector	Manufacture of medical and surgical equipment and orthopedic appliances (11)
Products / Services	Production of Hip Implant
location	Bilverdi Industrial Estate (Heris)
Project description:	<p>Production process of hip implants starts by making raw materials ready for improvement of metallurgical properties such as carbonization, nitrogenization, and other similar operations to improve mechanical properties of raw materials. These operations are done on raw materials to make them ready for making implants. Followings are production stages:</p> <ul style="list-style-type: none"> • Warming raw material to reach melting point • Forming melted piece under press • Machining forged piece to take total form and dimensions • Sterilization of total product
Land area	3000 m ²
Construction area	1800 m ²
Facilities cost	7875 million Rials
Annual capacity	<ul style="list-style-type: none"> • Nominal capacity: 3000 pieces of hip implants in year • Actual capacity: 2400 pieces of hip implants in year
Local / internal raw materials access	0 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 80 % • Anticipated export market: 20 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	54,314	34,052	1.60	1.15	2.75
Working Capital	6,540	34,052	0.19	0.00	0.19
Total Investment	60,855	-	1.79	1.15	2.94

- Value of foreign equipment / machinery: 0.15 Million Euros
- Value of local equipment / machinery: 0.23 Million Euros
- Value of foreign technical know-how: 1 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 0.54 Million Euros in 10 years
- Internal Rate of Return (IRR): 36.58%
- Payback period: 2.56 years from start of construction
- Minimum Attractive Rate of Return: 30%

COPPER ALLOY SECTIONS



*East Azerbaijan
Investment Service Center*



Project title: Producing Copper Alloyed Sections (Brass Sections)

Sector	Producing basic metal (27)
Sub Sector	Producing high-priced basic metals and non-ferrous metals (20)
Products / Services	Producing brass sections (27201434)
location	Hashtrud Industrial Estate
Project description:	First of all copper and zinc ingots with high purity are melted in induction furnaces. Then the melted substance is directed towards extrusion line which is a relatively modern method in metallurgy. At the final stage section are cut into various sizes by cutting machines.
Land area	3000 m ²
Construction area	1900 m ²
Facilities cost	16327 million Rials
Annual capacity	Nominal capacity: 1400 tons in year Actual capacity: 1260 tons in year
Local / internal raw materials access	100 %
Sale	• Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Riials	Rate	Equivalent in Million Euros		
Fix Capital	43,569	35,020	1.24	0.88	2.12
Working Capital	24,594	35,020	0.70	0.00	0.70
Total Investment	68,164	-	1.95	0.88	2.82

- Value of foreign equipment / machinery: 0.88 Million Euros

- Value of local equipment / machinery: 0.08 Million Euros

- Value of foreign technical know-how: 0 Million Euros

- Value of local technical know-how: 0 Million Euros

- Net present value (NPV): 0.67 Million Euros in 10 years

- Internal Rate of Return (IRR): 31.57%

- Payback period: 3.71 years from start of construction

- Minimum Attractive Rate of Return: 30%

Project title: Processing the Lightweight Aggregates (Producing Natural Lightweight Aggregate)

Sector	Other non-Metallic Mineral Products (26)
Sub Sector	Other non-metallic mineral products not classified anywhere else (99)
Products / Services	Producing Natural Lightweight Aggregate
location	near to Clay Mine in Bostanabad
Project description:	<p>A brief description of the manufacturing process:</p> <p>After digging a trench by bulldozer, stripping operations that remove the layers of rock and soil from natural lightweight aggregate's layers is done. Then the loading operation is done by loader. Minerals are shipped by trucks from the mine site, and then will be sent to the market.</p>
Land area	10000 m ²
Construction area	1300 m ²
Facilities cost	4249 million Rials
Annual capacity	<ul style="list-style-type: none"> • Nominal capacity: 120,000 m³ natural lightweight aggregate per year • Actual capacity: 108,000 m³ natural lightweight aggregate per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? No
- List of know- how, machinery, equipment, as well as seller /builder companies defined? Yes
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	40,129	35,327	1.14	0.00	1.14
Working Capital	1,008	35,327	0.03	0.00	0.03
Total Investment	41,137	-	1.16	0.00	1.16

- Value of foreign equipment / machinery: 0 Million Euros
- Value of local equipment / machinery: 0.24 Million Euros
- Value of foreign technical know-how: 0 Million Euros
- Value of local technical know-how: 0 Million Euros
- Net present value (NPV): 0.05 Million Euros in 10 years
- Internal Rate of Return (IRR): 31.70%
- Payback period: 2.86 years from start of construction
- Minimum Attractive Rate of Return: 30%

Project title: Production of Nepheline Syenite

Sector	Mining of metal ores (13)
Sub Sector	Mining of non-ferrous metal ores, except uranium and thorium ores (1320)
Products / Services	Processing of Nepheline Syenite
Location	Adjacent to Nepheline Syenite Mine
Project description:	A brief description of the production process: Extraction from the mine, transportation to site, crushing, grinding and removal of iron minerals by magnetic separation (purity enhancing).
Land area	6000 m ²
Construction area	2300 m ²
Facilities cost	6133 million Rials
Annual capacity	<ul style="list-style-type: none"> • Nominal capacity: 500,000 tons of Processed Nepheline Syenite (concentrate) per year • Actual capacity: 375,000 tons of Processed Nepheline Syenite (concentrate) per year
Local / internal raw materials access	100 %
Sale	<ul style="list-style-type: none"> • Anticipated local market: 100 % • Anticipated export market: 0 %
Total time to finish the project	2 years

Project Status

- Feasibility study available? No
- Required land provided? No
- Legal permissions (establishment license, foreign currency quota, environment, etc.) taken? No
- Partnership agreement concluding with local /foreign investor? No
- Financing agreement concluding? No
- Agreement with local /foreign contractor(s) concluding? No
- Infrastructural utilities (electricity water supply, telecommunication, fuel, road, etc.) procured? Yes
- List of know- how, machinery, equipment, as well as seller /builder companies defined? No
- Purchases agreement machinery, equipment and know-how concluded? No

Financial structure

Descriptions	Local Currency Required			Foreign Currency Required (Million Euros)	Total Million Euros
	Million Rials	Rate	Equivalent in Million Euros		
Fix Capital	110,493	33,928	3.26	0.00	3.26
Working Capital	35,511	33,928	1.05	0.00	1.05
Total Investment	146,004	-	4.30	0.00	4.30
- Value of foreign equipment / machinery: 0 Million Euros					
- Value of local equipment / machinery: 1.59 Million Euros					
- Value of foreign technical know-how: 0 Million Euros					
- Value of local technical know-how: 0 Million Euros					
- Net present value (NPV): 0.89 Million Euros in 10 years					
- Internal Rate of Return (IRR): 39.06%					
- Payback period: 2.77 years from start of construction (construction period will be 2 years)					
- Minimum Attractive Rate of Return: 30%					



INVESTMENT OPPORTUNITIES IN INDUSTRY AND MINE SECTORS

www.investin-ea.ir
info@investin-ea.ir
Tel: 041-35262237-8
Fax: 041-35265053