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Iran's Investment opportunities in Petrochemical Industry

September 2016



# Iran

one of the  
oldest cradles of  
civilization

*Iran ... one of the oldest cradles of civilization ... a shining gemstone at the heart of the ancient continent, Asia, ... a nation proud of a rich cultural heritage of 7000 years old, a telltale of history, science, literature and human rights as declared in the Cyrus Cylinder, man's first human rights charter, which dates back to the 6th century before common era.*

*Covering an area of over 1.6 million square meters, located in the south west of Asia.*

*Architecture of Iran, with numerous fascinating historical buildings and monuments, deserved to be listed as World Heritage Sites, depicts a history of genuine culture and customs built upon kindness and respect for others and compassion.*

*Iran is the land of literary masterpieces with great poets like Hafez, Sa'di, Ferdowsi, Attar, Khayam and Rumi to name only a few. It's the standard-bearer of the development of natural sciences including chemistry and medicine with pioneering work and findings by scientists like Avicenna, Razi and Abu Rayhan,*

*whose works, written several centuries ago, have been translated into many different languages and became the beacon for other scientists for generations to come.*

*Iran, the land of four seasons and unique products like saffron, pistachio and the most beautiful carpets, lies on the path of the ancient Silk Road. Today, the "strategic situation" and "abundant hydrocarbon resources" are the two important factors in attempts to revive the Silk Road. Therefore, studying the role and situation of Iran is considered to be very remarkable, not only by policy-makers and macro-planners of the country, but by regional and international statesmen and economists as well. Iran possesses abundant natural resources, including iron, aluminum, oil, gas and many others which offer ample investment opportunities in different industries. These huge oil and gas resources, which are readily available and cost-effective, have paved the grounds for the expansion of petrochemical industry in Iran.*













**Access to International waters** and Import and Export Facilities is One of the Advantages of Investing in Iran's Petrochemical Industry





## National Petrochemical Company

*National Petrochemical Company of Iran, as one of the four main deputies in the Oil Ministry, is responsible for strategic management and macro planning, policy making, coordinating and supporting sustainable development of the country's petrochemical industry. Relying on more than half a century of experience, the company would support and patronize all projects and petrochemical plants across Iran ranging from upstream to downstream industries. By creating dynamic business environment to all local and foreign investors, the company encourages all domestic and foreign investors to choose Iran as their final destination of investment, a country which is into the job of developing petrochemicals production chain. Iran ranks second largest producer of petrochemical products in the region with annual production installed capacity of 60.6*

*million tons of petrochemical products by the end of 2015. With 157.8 billion barrels of proven oil reserves (ranking fourth in the world's oil reserves) and total proven natural gas reserves of approximately 34 trillion cubic meters (ranking number one as holder of natural gas reserves in the world) by the end of 2015, Iran is estimated to be the most stable supplier of feeds to the petrochemical industries across the country and in the World. Also due to other factors affecting risks and investment return, including security investments, quick jump in the development, easy access to high seas, a huge market of growing domestic consumption, educated young population and engineering companies, quality contractors and manufacturers, Iran turns to be a major hub for investment in the petrochemical industry across the region.*







## **Investment Directorate**

*Investment Directorate, as one of the main National Petrochemical Company Directorates, is highly structured with macro objectives in investment, partnership and finance of developing projects.*

*In this respect, identifying, developing and introducing investment opportunities and trusting projects to reliable, authorized investors and facilitating investment in the shortest possible time are among the main objectives of this Directorate. Steering internal and external strategic partnerships through technical and economic evaluation of investors, supporting various processes to absorb investment, supporting current investment funds and creating new investment funds with respect to the targets of the National Petrochemical Company's objectives are among other tasks of the Investment Directorate. Cooperating with other Directorates of the National Petrochemical Company, Investment Directorate is to develop its list of authorized investors. Using its legal mandate and also is to provide an appropriate environment for domestic and foreign investors in Iran's petrochemical industry.*










## ***The advantages of investing in Iran's petrochemical industry***

- *availability of continuous and accessible feeds*
- *Receiving support of the National Petrochemical Company for developing petrochemical industries*
- *Stabilization of feeds prices during the operation based on formulas approved*
- *Discounts defined up to %30 of feedstock to establish plants in least developed areas including downstream chains*
- *Long-term tax exemptions from operating time in free-trade zones, special economic areas and least developed regions*
- *Access to experts and professionals*
- *Access to high seas*
- *Access to import / export facilities*
- *Access to growing domestic market*
- *Existence of developed infrastructures (airport, railway, port, jetty, etc.) in petrochemical hubs*
- *Access to qualified engineering companies, suppliers and manufacturers*
- *Iran's Foreign Investment Promotion and Protection Act (FIPPA - page 14)*



- *Advantages and customs exemptions in Free trade and special economic zones:*
  - *Export goods without any formalities*
  - *Import goods at the lowest customs formalities*
  - *Export of imported goods in other zones without any formalities*
  - *Allocate land to qualified applicants after evaluation*
  - *Ensure foreign investment based on free zones law*
  - *Guaranteed return of capital and profits acquired*
  - *Tax breaks for imports of all goods and materials such as equipment and buildings materials*
  - *No requirement to get visa to enter the free trade zones*
  - *Issuance of residence permits for foreign nationals without legal formalities in free trade zones*
  - *Production machinery and equipment exemption from payment of customs duties (first-hand machinery)*
  - *Refund of customs duty paid for importing raw materials in the production of export goods*
  - *Exemption from payment of tariffs for the transportation of semi-finished goods into the country*





Existence of Developed  
Infrastructures (Airport,  
**Railway**, Port, Jetty, etc.)  
in Petrochemical Hubs is One  
of the Advantages of Investing  
in Iran's Petrochemical  
Industry









## **Iran's Foreign Investment Promotion and Protection Act (FIPPA)**

### **● Characteristics and legal facilities**

- *No restrictions on the volume and percentage of foreign investment share*
- *Possibility of registering an Iranian company with %100 foreign capital*
- *The transfer of capital, profits and gains derived from the use of capital in the form of currency or goods*
- *Equal treatment to foreign and domestic investors*
- *Possibility of investing in all areas allowed for private sector*
- *Granting protection coverage to all forms of foreign investment*
- *Short and quick admission application and approval process for foreign investment*
- *Three-year residence permit for investors, managers, foreign experts and their relatives of the first degree*

### **● Risks covered by law**

- *Expropriation or nationalization*
- *The transfer of capital and profits from it indefinitely*
- *Guaranteed purchase of goods and services produced in foreign investment projects in the BOT method if their exclusive purchaser is the Government.*

## Investment opportunities

Iran, due to specific geographical conditions and the huge hydrocarbon reserves, has created a unique opportunity in the region. Investment opportunities in Iran's petrochemical industry, are a wealth and capital at the disposal of those investors, whose technical and economic competence are confirmed, according to a description provided in the annex, to enable them to maximum use of this opportunity. Investment opportunities in Iran's petrochemical industry are introduced through following conditions:

### **1-The projects defined by National Petrochemical Company (Table No. 1)**

These projects are defined by Planning and development Directorate of National Petrochemical Company after studying the market and targeting suitable investment elements. After obtaining approval from the board of directors, by the Investment Directorate through public calls, these projects will be entrusted to those investors whose technical and economic competence is confirmed.

### **2- Participation in ongoing projects (Table No. 2&3)**

Participation in projects that are already achieving development goals for the National Petrochemical Company and have started, according to schedule, to save time. Projects which are prepared to absorb participation of investors whose financial and professional capabilities are confirmed by the NPC.

### **3- Projects introduced by investors**

Investor can do the feasibility study and prepare a business plan and propose it as a new idea to the Investment Directorate. Investment Directorate, in cooperation with other National Petrochemical Company Directorates, studies the offered idea, evaluates documents related to the technical and economic capabilities of the investor, and gains the approval of board of directors at the National Petrochemical Company before the projects are entrusted to the investor.





Equal Treatment to  
**Foreign and  
Domestic** Investors is One  
of the Advantages of Investing in  
Iran's Petrochemical Industry









## ***Iran geography is ready to develop the petrochemical industry***

### ***The existing hub for the petrochemical industry***

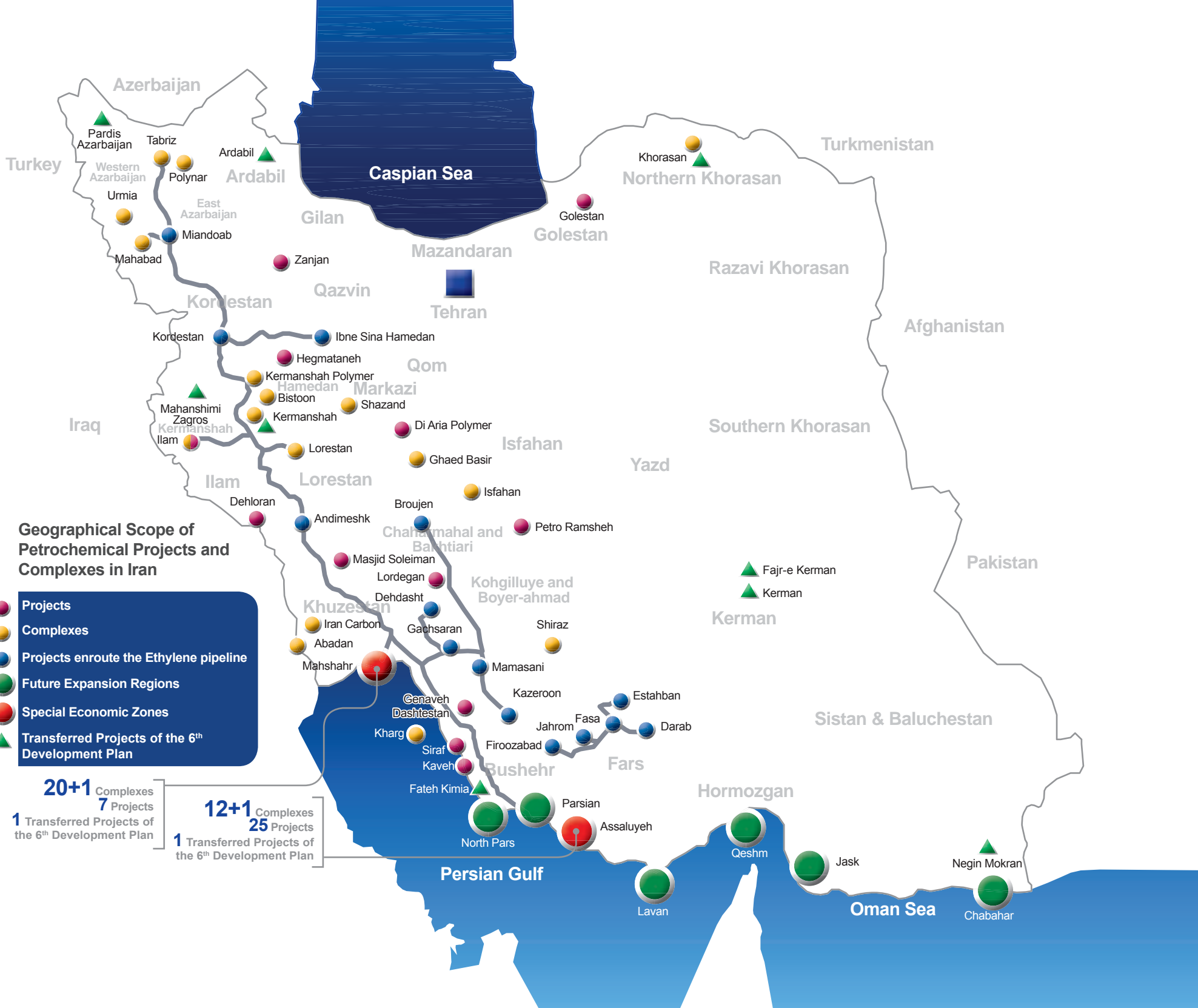
- Mahshahr
- Assaluyeh

### ***Other areas***

- Central Ethylene Pipeline
- The ongoing projects within the country
- West Ethylene Pipeline
- Complexes under operation in the country

### ***The future hub for the petrochemical industry***

- Chabahar
- Parsian
- Qeshm
- Jask
- Lavan
- Iranshahr
- Mahshahr development
- Assaluyeh development





# Approval process and entrust of petrochemical projects to investors

## Receiving documents and application

- A
  - A copy of the original document of the company constitution
  - A copy of the original: From first and last official newspapers displaying company changes
  - A copy of the original: From registration documents, including registration certificate, national ID and economic code
  - 2 recent years financial statements approved by the regulators or audit organization
  - Applicants, executive background in the past two years and any activities related to the requested projects
  - Preliminary Business Plan or prefeasibility Study (PFS)

## Assessment of project and approval of investment qualification

- B
  - Verification of the applicant company's legal capacity and ...
  - Evaluation of Preliminary Business Plan or PFS of projects
  - Feeds availability
  - Evidence of financial capability
  - Evidence of technical and administrative capabilities of the applicant company
  - Correspondence with the relevant ministries and agencies

## Inquiring the opinion or approval of the Board of Directors at the National Petrochemical Company

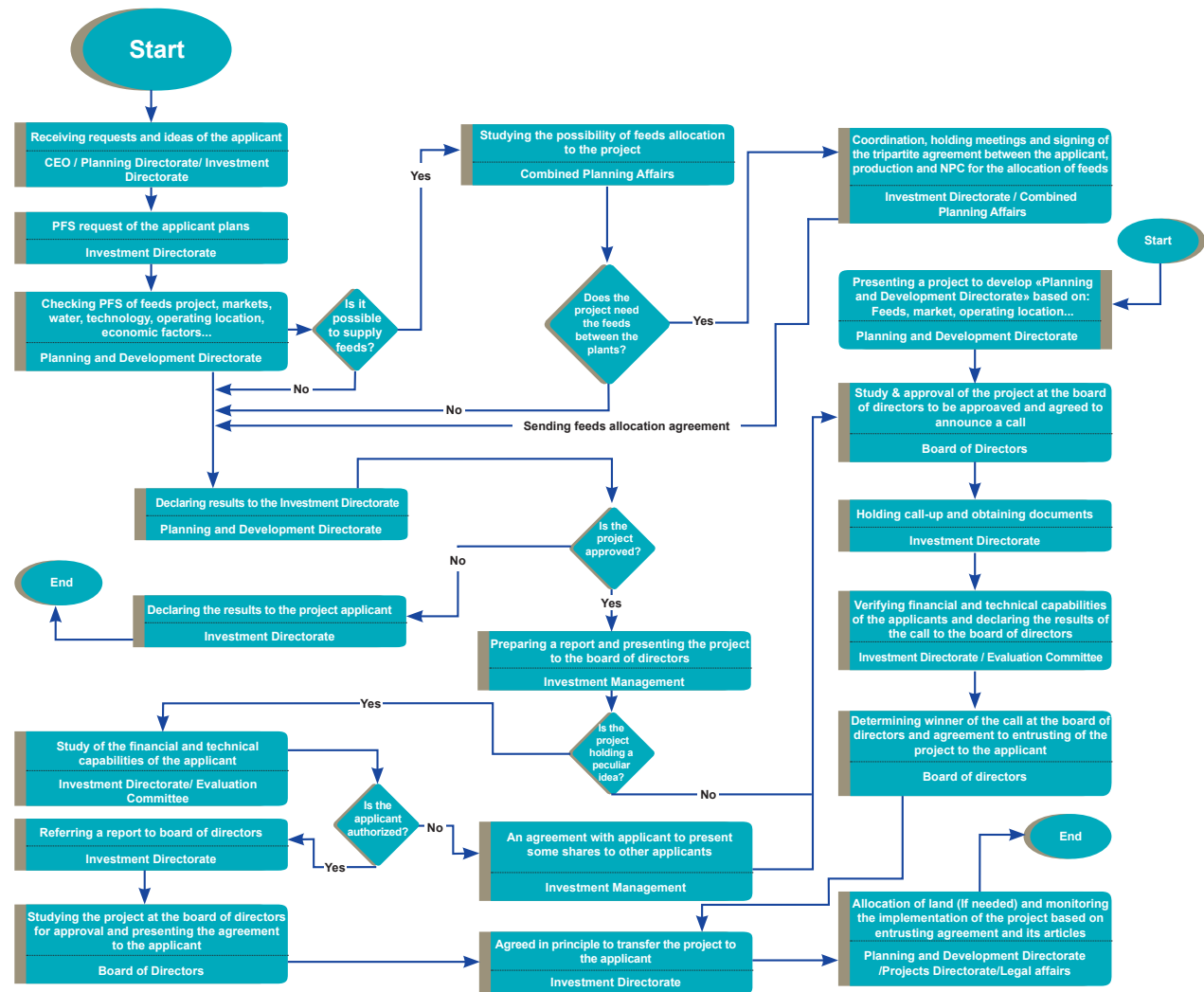
- C
  - Evaluating the project and obtaining the necessary approvals
  - necessary correspondence with other entities including the Ministry of petroleum, Ministry of Industry, Mine and Trade
  - Bringing up the project at the Board of Directors and obtaining the necessary approvals
  - issuing primary agreement of the project after approval of Deputy of planning of ministry of petroleum

## Investor activities after obtaining the primary agreement (within the 1<sup>st</sup> year)

- D
  - Providing final business plan
  - Providing land lease or purchase document with the approval of the Governor and other relevant organizations
  - Providing official confirmation by the Environment Protection Organization
  - Obtaining necessary permits (for feeds, water, electricity, fuel, etc.) from the concerned organizations
  - Obtaining necessary permits from the Ministry of Industry, Mine and Trade
  - Determining owner of the certificate, operating contractors and consultants of the project such as EPC operating contract or any other operation strategy
  - providing financing package of the project



# workflow to entrust projects of the petrochemical industry



Agreement expiry will be materialized in the event of non-fulfillment of obligations in accordance with the agreement and based on relevant directive which is an integral part of the cited above process.





Investment Opportunities in Petrochemical Industry of Iran (Table No.1)

No.	Project	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
						Name	Amount	Unit
1	Olefin/ Aromatics	New hubs (Under Study)	P-Xylene	796	2,647	Naphtha	2000	KT/Y
			O-Xylene	97		Ethane	1100	KT/Y
			Phthalic Anhydride	100		Natural Gas - Fuel	0.5	MM m3/d
			Benzene	382				
			Styrene	750				
			LPG	82				
			Heavy Aromatics	32				
			Raffinate	344				
			Ethylene	1,000				
			Propylene	75				
			C4 Cut	32				
			Pyrolysis Gasoline	65				
			Fuel Oil	5				
			Sum.	3,760				
2	Olefin/ Aromatics	Siraf	P-Xylene	796	2,647	Naphtha	2000	KT/Y
			O-Xylene	97		Ethane	1100	KT/Y
			Phthalic Anhydride	100		Natural Gas - Fuel	0.5	MM m3/d
			Benzene	382				
			Styrene	750				
			LPG	82				
			Heavy Aromatics	32				
			Raffinate	344				
			Ethylene	1,000				
			Propylene	75				
			C4 Cut	32				
			Pyrolysis Gasoline	65				
			Fuel Oil	5				
			Sum.	3,760				



Investment Opportunities in Petrochemical Industry of Iran (Table No.1 Cont.)

No.	Project	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
						Name	Amount	Unit
3	Olefin - 1	New hubs (Under Study)	Ethylene	1,000	2,398	Ethane	900	KT/Y
			Propylene	138		Butane	700	KT/Y
			LLD/HDPE	500		Natural Gas - Fuel	0.5	MM m3/d
			HDPE	500				
			Polyols	170				
			PBR	45				
			C4 Raffinate	55				
			C4 Cut	100				
			Pyrolysis Gasoline	67				
			Sum.	2,575				
4	Olefin - 2	New hubs (Under Study)	Ethylene	1,000	2,398	Ethane	900	KT/Y
			Propylene	138		Butane	700	KT/Y
			LLD/HDPE	500		Natural Gas - Fuel	0.5	MM m3/d
			HDPE	500				
			Polyols	170				
			PBR	45				
			C4 Raffinate	55				
			C4 Cut	100				
			Pyrolysis Gasoline	67				
			Sum.	2,575				
5	Olefin - 3	New hubs (Under Study)	Ethylene	500	1,177	Ethane	500	KT/Y
			Propylene	50		Butane	240	KT/Y
			LLD/HDPE	450		Natural Gas - Fuel	0.3	MM m3/d
			EPDM	90				
			C4 Cut	42				
			Pyrolysis Gasoline	27				
			Sum.	1,159				



Investment Opportunities in Petrochemical Industry of Iran (Table No.1 Cont.)

No.	Project	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
						Name	Amount	Unit
6	Aromatics (Cyclar)	New hubs (Under Study)	Benzene	635	700	LPG	380	KT/Y
			Toluene	106		Natural Gas - Feed	3.2	MM m3/d
			Mixed Xylenes	57		Natural Gas - Fuel	0.1	MM m3/d
			C9+ Aromatics	202				
			Sum.	1,000				
7	GTPP	New hubs (Under Study)	Methanol	1,650	1,400	Natural Gas - Feed	4	MM m3/d
			Propylene	515		Natural Gas - Fuel	1.4	MM m3/d
			Polypropylene	490				
			Pyrolysis Gasoline	125				
			LPG	69				
			Sum.	2,849				
8	PDH & Downstream	New hubs (Under Study)	Propylene	450	852	Propane	530	KT/Y
			Acrylonitrile	100		Ammonia	52	KT/Y
			Arylic Acid	190		Sulfuric acid	10	KT/Y
			Hydrogen Cyanide	11		Natural Gas - Fuel	0.2	MM m3/d
			Acetonitrile	3				
			Ammonium Sulfate	12				
			Sum.	766				
9	PDH & Downstream	New hubs (Under Study)	Propylene	500	1,319	Propane	580	KT/Y
			Acrylonitrile	300		Ammonia	150	KT/Y
			Hydrogen Cyanide	33		Sulfuric acid	140	KT/Y
			Acetonitrile	9		Ethylene oxide	9	KT/Y
			Ammonium Sulfate	36		Natural Gas - Fuel	0.3	MM m3/d
			Polyols	180				
			Peropylene Oxide	220				
			Propylene Glycol	60				
			Sum.	1,338				



Investment Opportunities in Petrochemical Industry of Iran (Table No.1 Cont.)

No.	Project	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
						Name	Amount	Unit
10	PDH/PP	New hubs (Under Study)	Propylene	500	732	Propane	600	KT/Y
			Poly Propylene	500		Natural Gas - Fuel	0.4	MM m3/d
			Sum.	1,000				
11	MTP/PP (Petrochemical Research & Technology Co.)	New hubs (Under Study)	Propylene	490	676	Methanol	1650	KT/Y
			Polypropylene	470				
			Pyrolysis Gasoline	178				
			LPG	36				
			Sum.	1,174				
12	3rd PTA/PET	New hubs (Under Study)	PTA	1,000	1,234	P-Xylene	660	KT/Y
			PET - Bottle	1,000		MEG	350	KT/Y
			Sum.	2,000		Natural Gas - Fuel	0.5	MM m3/d
13	Benzene Chain	Mahshahr	Cyclohexane	150	568	Benzene	140	KT/Y
			Caprolactam	70		Ammonia	56	KT/Y
			Adipic Acid	70		Sulfuric Acid	52	KT/Y
			Ammonium Sulfate	166		Natural Gas - Fuel	0.01	MM m3/d
			Sum.	456				
14	Ammonium Sulfate	Under Study	Ammonium Sulfate	400	Under Study			
15	Sulphur coated urea	Under Study	Sulphur coated urea	500	Under Study			
16	Sulphur Bentonite	Under Study	Sulphur Bentonite	500	Under Study			
TOTAL				25,812	18,748			

Us \$ exchange rate: 31000 IRR





Projects Announced Ready for Partnership in Petrochemical Industry of Iran (Table No.2)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
1	14 th Olefin	FirouzAbad PC	FirouzAbad	Ethylene	1,000	600	Ethane	1300	KT/Y
				C3+	90		Natural Gas - Fuel	1.9	MM m3/d
				Sum.	1,090				
2	Darab HDPE	Darab PC	Darab	HDPE	300	385	Ethylene	305	KT/Y
							Butene -1	5	KT/Y
							Natural Gas - Fuel	0.24	MM m3/d
3	Jahrom LL/HDPE	Jahrom PC	Jahrom	LL/HDPE	300	385	Ethylene	290	KT/Y
							Butene -1	24	KT/Y
							Natural Gas - Fuel	0.24	MM m3/d
4	Fasa LDPE	Fasa PC	Fasa	LDPE	300	401	Ethylene	310	KT/Y
							Propylene	2	KT/Y
							Natural Gas - Fuel	0.24	MM m3/d

Us \$ exchange rate: 31000 IRR





Projects Announced Ready for Partnership in Petrochemical Industry of Iran (Table No.2 Cont.)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
5	Mamasani HDPE	Mamasani PC	Mamasani	HDPE	300	431	Ethylene	305	KT/Y
							Butene -1	3	KT/Y
							Natural Gas - Fuel	0.48	MM m3/d
6	Dehdasht HDPE	Dehdasht PC	Dehdasht	HDPE	300	395	Ethylene	305	KT/Y
							Butene -1	5	KT/Y
							Natural Gas - Fuel	0.2	MM m3/d
7	Boroujen HDPE	Boroujen PC	Boroujen	HDPE	300	488	Ethylene	305	KT/Y
							Butene -1	3	MM m3/d
							Natural Gas - Fuel	0.2	MM m3/d
8	Kazeroon LL/HDPE	Kazeroon PC	Kazeroon	LL/HDPE	300	481	Ethylene	290	KT/Y
							Butene -1	24	KT/Y
							Natural Gas - Fuel	0.24	MM m3/d
9	Acetic Acid	Bushehr PC *	Assaluyeh	Aceic Acid	300	132	Methanol	162	KT/Y
10	Ethoxylates	Hamedan Ibn Sina PC	Hamedan	Ethylene oxide	100	475	Ethylene	80	KT/Y
				MEG	6		N-Butane	30	KT/Y
				Ethoxylates	80		Fatty Alcohols	28	KT/Y
				Glycol Ether	50		Ammonia	6	KT/Y
				MEA/AMDEA	30		Natural Gas - Fuel	0.21	MM m3/d
				Sum.	266				

\* The investment amount only includes foreign currency investment in acetic acid unit



Projects Announced Ready for Partnership in Petrochemical Industry of Iran (Table No.2 Cont.)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
11	Acrylonitrile	Arg PC	Mahshahr	Acrylonitrile	100	247	Propylene	110	KT/Y
				Acetonitrile	3		Ammonia	54	KT/Y
				Ammonium Sulfate	12		Sulfuric Acid	12.5	KT/Y
				Sodium cyanide	20		Sodium hydroxide	18	KT/Y
				Sum.	135		Natural Gas - Fuel	0.1	MM m3/d
12	Acrylates	Petro Fannavari Polymer Ofogh Co.	Mahshahr	Acrylic Acid	80	200	Propane	185	KT/Y
				Propylene	150		Natural Gas - Fuel	0.1	MM m3/d
				Oxo Alcohols	60				
				Acrylate Esters	60				
				Super absorbing Polymers	45				
				Sum.	395				
13	EPS	Petro Ramshe Co.	Isfahan	EPS	50	64	Styrene	40	KT/Y
							Natural Gas - Fuel	0.05	MM m3/d
14	9th Ammonia/Urea	Masjed Soleiman Petrochemical Industry Co.	Masjed Soleiman	Ammonia	680	743	Natural Gas - Feed	1.4	MM m3/d
				Urea	1,075		Natural Gas - Fuel	1.2	MM m3/d
				Sum.	1,755				
15	GTPP	Pardis Azarbajian Co.	Maku	Methanol	1,650	1,400	Natural Gas - Feed	4	MM m3/d
				Propylene	515		Natural Gas - Fuel	1.4	MM m3/d
				Polypropylene	490				
				Pyrolysis Gasoline	125				
				LPG	69				
				Sum.	2,849				



Projects Announced Ready for Partnership in Petrochemical Industry of Iran (Table No.2 Cont.)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
16	Methanol Chain	Petro Olefin Fanavaran Co.	Mahshahr	Methanol	1,650	1,701	Natural Gas - Feed	4	MM m3/d
				Propylene	120		Natural Gas - Fuel	1.4	MM m3/d
				2EH	150		Ethylene	58	KT/Y
				DME	800				
				VAM	160				
				Acetic Acid	300				
				Pyrolysis Gasoline	29				
				LPG	16				
				Sum.	3,225				
17	GTPP	Fateh Kimia Co.	Dayyer Port	Methanol	1,650	1,051	Natural Gas - Feed	4	MM m3/d
				Propylene	515		Natural Gas - Fuel	0.7	MM m3/d
				Polypropylene	490				
				Pyrolysis Gasoline	125				
				LPG	69				
				Sum.	2,849				
18	Butane Chain	Romak Energy Saramad Co.	Mahshahr	Iso-Butane	90	548	Butane	225	KT/Y
				N-Butane	120		Natural Gas - Fuel	0.05	MM m3/d
				Isobutene Isobutylene	16				
				Isobutylene	60				
				Polyisobutylene	30				
				Butadiene	70				
				Sum.	386				



Projects Announced Ready for Partnership in Petrochemical Industry of Iran (Table No.2 Cont.)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
19	GTPP	Ardebil Petrochemical Co.	Ardebil	Methanol	1,650	1,400	Natural Gas - Feed	4	MM m3/d
				Propylene	515		Natural Gas - Fuel	1.32	MM m3/d
				Polypropylene	490				
				Pyrolysis Gasoline	125				
				LPG	69				
				Sum.	2,849				
20	GTPP	Kerman Petrochemical Complex Co.	Baft	Methanol	1,650	1,400	Natural Gas - Feed	3.9	MM m3/d
				Propylene	515		Natural Gas - Fuel	0.56	MM m3/d
				Propylene	490				
				Pyrolysis Gasoline	125				
				LPG	69				
				Sum.	2,849				
21	GTO	Mahan Chimie Zagros Co.	Islam Abad-e Gharb	Methanol	1,850	1,429	Natural Gas - Feed	4.5	MM m3/d
				Ethylene	308		Natural Gas - Fuel	0.7	MM m3/d
				Propylene	308				
				HDPE	300				
				Polypropylene	300				
				C4/C5 Cut	135				
				Sum.	3,201				
TOTAL					24,299	14,358			



Partnership Opportunities in Petrochemical Industry of Iran (Under Study by Shareholders) (Table No.3)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
1	Maleic Anhydride, BDO & PBT	Petrokimia Ibn Sina Co.	Mahshahr	Maleic Anhydride	110	340	Butane	160	KT/Y
				BDO	75		PTA	45	KT/Y
				PBT	60		Methanol	4	KT/Y
				Iso-butane	50		Natural Gas - Fuel	0.08	MM m3/d
				THF	24				
				Sum.	319				
2	Maleic Anhydride	Modaberan Chimie Co.	Mahshahr	Maleic Anhydride	20	46	Butane	40	KT/Y
				Fumaric Acid	4		Natural Gas - Fuel	0.01	MM m3/d
				Unsaturated Polyester resins	15				
				Isobutane	14				
				Sum.	53				
3	ABS & SBS/SB/LCBR	Pad Jam Polymer Expansion Co.	Assaluyeh	ABS	200	331	Styrene	150	KT/Y
				SBS	30		Nutadiene	54	KT/Y
				SB	15		Acrylonitrile	48	KT/Y
				LCBR	15		Natural Gas - Fuel	0.07	MM m3/d
				Sum.	260				

Us \$ exchange rate: 31000 IRR





Partnership Opportunities in Petrochemical Industry of Iran (Under Study by Shareholders) (Table No.3 Cont.)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
4	15th Methanol	Siraf Energy Co.	Dayyer Port	Methanol	1,650	883	Natural Gas - Feed	3.6	MM m3/d
							Natural Gas - Fuel	0.4	MM m3/d
5	15th Olefin and MEG Genaveh - Dashtestan	Genaveh Dashtestan PC	Genaveh Dashtestan	Ethylene	500	1,617	Ethane	650	KT/Y
				C3+	45		Natural Gas - Fuel	1.1	MM m3/d
				MEG	500				
				DEG	50				
				TEG	4				
				Sum.	1,099				
6	PDH	Salman Farsi PC	Mahshahr	Propylene	450	408	Propane	560	KT/Y
							Natural Gas - Fuel	0.8	MM m3/d
7	PDH,PP	Mehr Petrokimia Co.	Assaluyeh	Propylene	450	922	Propane	560	KT/Y
				Polypropylene	450		Ethylene	30	KT/Y
							Butene -1	5	KT/Y
				Sum.	900		Natural Gas - Fuel	0.42	MM m3/d

Us \$ exchange rate: 31000 IRR





Partnership Opportunities in Petrochemical Industry of Iran (Under Study by Shareholders) (Table No.3 Cont.)

No.	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
8	12th Olefin	Kian PC	Assaluyeh	Ethylene	1,200	4,496	Naphtha	1300	KT/Y
				Propylene	327		Ethane	900	KT/Y
				C4 Cut	294		C3+	315	KT/Y
				Fuel Oil	26		Light cuts	340	KT/Y
				Heavy Cut	1,089		Natural Gas - Fuel	2.8	MM m3/d
				Benzene	382				
				P-Xylene	528				
				O-Xylene	90				
				Heavy Aromatics	25				
				Ethylbenzene	476				
				Styrene	440				
				Linear Alfa olefins	200				
				Propylene Oxide	200				
				Butadiene	130				
				Raffinate	160				
				Sum.	5,567				

## The Core Values of National Petrochemical Company

Value Creation    Accountability    Commitment to the Sustainable Development



Partnership Opportunities in Petrochemical Industry of Iran (Under Study by Shareholders) (Table No.3 Cont.)

No	Project	Executer	Location	Products	Capacity (KT/Y)	Total Estimated Investment (Million US \$)	Feed & Fuel		
							Name	Amount	Unit
9	17th Olefin	Dehloran Sepehr Petrochemical Industry Co.	Dehloran	Ethylene	500	1,032	NGL	860	KT/Y
				Propylene	81		Butene -1	5	KT/Y
				Pyrolysis Gasoline	64		Natural Gas - Fuel	0.6	MM m3/d
				Fuel Oil	15				
				HDPE	300				
				Sum.	960				
10	Ammonia/ Urea	Kermanshah Petrochemical Industry Co.	Kermanshah	Ammonia	396	414	Natural Gas - Feed	0.8	MM m3/d
				Urea	660		Natural Gas - Fuel	0.37	MM m3/d
				Sum.	1,056				
11	GTPP	Khorasan PC	Bojnourd	Methanol	1,650	1,400	Natural Gas - Feed	4	MM m3/d
				Propylene	515		Natural Gas - Fuel	1.33	MM m3/d
				Polypropylene	490				
				Pyrolysis Gasoline	125				
				LPG	69				
Sum.	2,849								
12	GTO	Fajr Kerman Petrochemical Industry Co.	Kerman	Methanol	450	1,267	Natural Gas - Feed	1.2	MM m3/d
				Propylene	105		Natural Gas - Fuel	0.3	MM m3/d
				Ethylene	75				
				EPDM	50				
				EVA	50				
Sum.	730								
TOTAL					15,893	13,155			

Us \$ exchange rate: 31000 IRR





## **Liaison of investment**

### **Access to information**

*Questions and requests for information should be directed through the National Petrochemical Company, Investment Directorate. If you have any questions or need more information, do not hesitate to contact the Investment Directorate via email: [Investment@nipc.ir](mailto:Investment@nipc.ir).*

*All information sent by the applicants will be properly protected by National Petrochemical Company.*



**N P C**  
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