



**ACE Oil** Co.

You Worth  
the ACE



#### Contact us

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## About Us

Atra Crown Energy (ACE Oil) as an independent private company has been established, in its first steps, to manufacture different grades of Bitumen with the purpose of developing oil and oilfield industries in the private sector. Having the appropriate infrastructure, modern facilities and equipment, professional workforces, and utilizing expert knowledge and experience, have made ACE Oil as one of the pioneers of the bitumen industry in Iran and in the Middle East. From the beginning, this company has noted compliance with standards and the use of updated technologies as a priority to build its bitumen production unit; and at present with the establishment of an advanced manufacturing unit, this company is capable of producing and exporting different grades of bitumen in accordance with the recent standards of the world.



## Goals

With due attention to the current state of the country, some of the main goals of Ace oil are as follows:

development of the oil industry in the private sector, the satisfaction of domestic and foreign customers, quality improvement, variety increment, improvement of the export and production quantity in accordance with the latest global standards, training and creating job opportunities for the elite and expert human resources of the country in bitumen industry.

We are attempting to consider exporting bitumen all over the world as one of our major plans. Moreover, we are highly motivated to use the knowledge and technology of the day and to provide products with the most desirable quality in order to make a bright future for ACE Oil as well as paving the way of exporting for other committed exporters.

## Vision

Atra Crown Energy (ACE Oil) as an independent private company has been established, in its first steps, to manufacture different grades of Bitumen with the purpose of developing oil and oilfield industries in the private sector. Having the appropriate infrastructure, modern facilities and equipment, professional workforces, and utilizing expert knowledge and experience, have made ACE Oil as one of the pioneers of the bitumen industry in Iran and in the Middle East. From the beginning, this company has noted compliance with standards and the use of updated technologies as a priority to build its bitumen production unit; and at present with the establishment of an advanced manufacturing unit, this company is capable of producing and exporting different grades of bitumen in accordance with the recent standards of the world.

## Mission

The mission of ACE Oil is to produce different grades of bitumen with the highest quality and suitable/competitive price. This company tries to expand its target market in Asia, Africa, and Europe relying on the latest technology and benefiting from the young elite workforces.

## Security and Health

Ace Oil is an environment supporter company; thus, on the one hand, it is required to create safe and healthy working place and to produce and supply eco-friendly products, on the other hand, it has plans to expand productive activities and to increase capacities and capabilities.



# Storage Terminal

In the next steps, ACE Terminal established which has 7 storage tanks with the capacity of 19250 cubic meters (five tanks for dirty cargos and two tanks for clean cargos). The terminal has been designed for the storage of oil products including bitumen, base oil and furfural extract. The biggest advantage of the Terminal is its proximity to the jetties number 56 and 57 in comparison with other terminals, which is a remarkable point and great help to accelerate the loading operation and surveillance.

Also, it is possible for different reservoirs to discharge with high speed and upload several products simultaneously. Among other positive points of this terminal is the use of modern operational equipment's which has doubled its efficiency and function. The number of working personnel in ACE Terminal is about 32 staffs who are highly experienced and knowledgeable in the field.





## Bitumen Production Unit

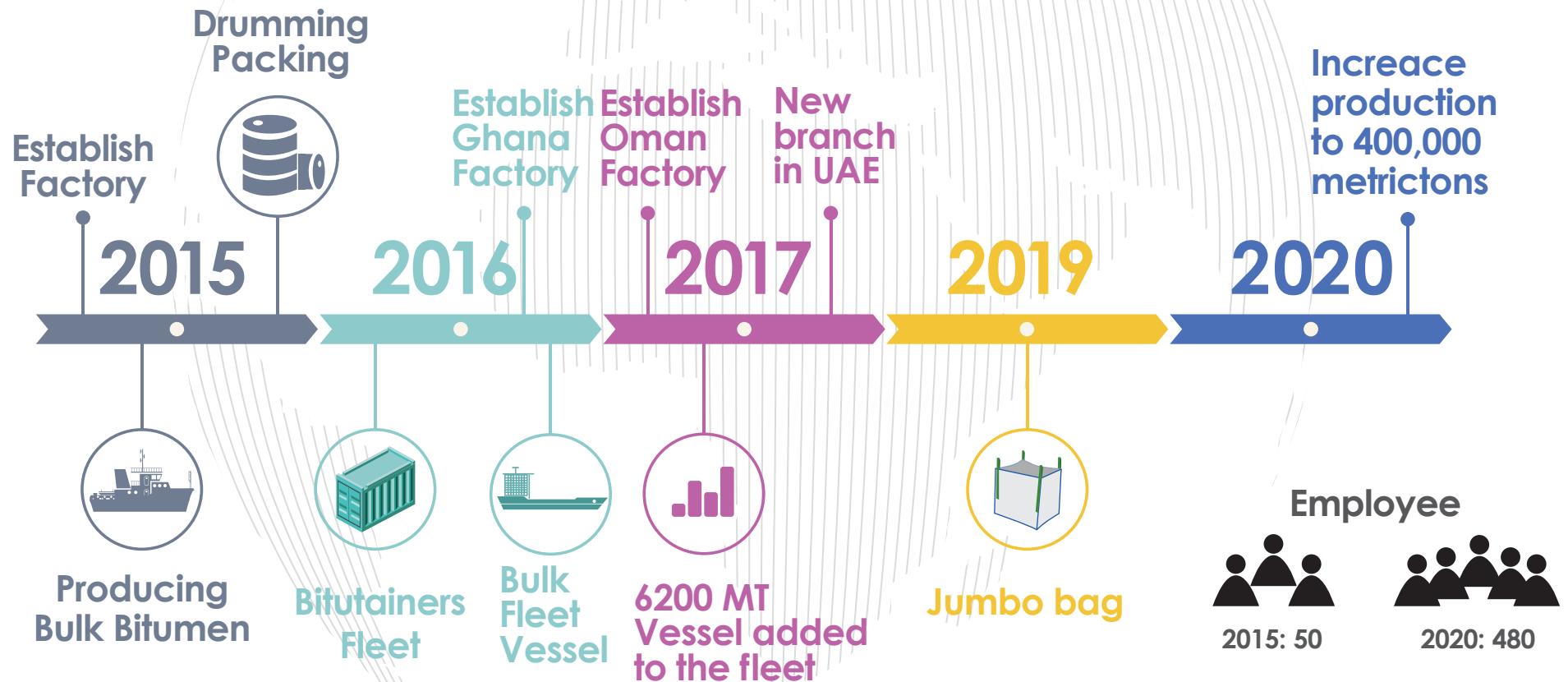
The factory is located on the 20th Kilometer of Shahid Rajaei port in the Persian Gulf Industrial zone. This unit possesses 3200-ton storage tanks with the storage capacity of 2700 tons. The daily production capacity of this unit is 2000 tons of different grades of bitumen. Also, the filling volume of the factory is 11000 drums, equivalent to 2000 tons of bitumen per day. Considering the location of the refinery, high-quality bitumen production and delivery of goods within the minimum time for exporting are of the advantages of this unit.

Currently, the products of this company include different grades of bitumen with penetration grades of 40/50 ,50/70 ,60/70 ,85/100 ,100/120 ,160/220, VG, AC, MC and other special grades.





# Milestone







# L a b o r a t o r y

With the use of modern and advanced equipment and devices, the laboratory of the company investigates the quality of all input raw materials, the materials used in the process of production and the final product as per the Iranian national and international standards. In case of any deviation from the specifications and criteria, the proper action will be taken immediately, and the reports will be promptly released to promote the quality and to decrease the production costs.



# PRODUCT GRADE SPEC



Penetration Grade (American Standard)

CHARACTERISTIC	UNIT	40/50	60/70	85/100	120/150	200/300	TEST METHOD
Penetration @25 °C	0.1 mm	40/50	60/70	85/100	120/150	200/300	ASTM D 5
Flash Point	°C	>230	>230	>230	>218	>177	ASTM D 92
Solubility in TCE	% WT	>99.0	>99.0	>99.0	>99.0	>99.0	ASTM D 2042
Specific Gravity @25 °C	—	1.01-1.06	1.01-1.06	1.01-1.05	1.01-1.05	1.01-1.05	ASTM D 70
Ductility @25 °C	Cm	>100	>100	>100	>100	>100	ASTM D 113
Softening Point, Min	°C	49	46	42	38	32	ASTM D 36
Loss on Heating, Max	% WT	0.2	0.2	0.5	0.5	1.0	ASTM D 6
Drop in Penetration After Heating	%	<20	<20	<20	<20	<20	ASTM D 5 · D 6



Penetration Grade (European Standard)

CHARACTERISTIC	UNIT	35/50	50/70	70/100	100/150	160/220	TEST METHOD	
Penetration @25 °C	0.1 mm	35/50	50/70	70/100	100/150	160/220	BS EN 1426	ASTM D 5
Viscosity @60 °C, Min	Pa.s	225	145	90	55	30	BS EN 12596	ASTM D 4402
Viscosity @135 °C, Min	CST	370	295	230	175	135	BS EN 12595	ASTM D 4402
Specific Gravity @25 °C	—	Report	Report	Report	Report	Report	BS EN 15326	ASTM D 70
Softening Point	°C	50-58	46-54	43-51	39-47	35-43	BS EN 1427	ASTM D 36
FlashPoint, Min	°C	240	230	230	220	180	BS EN 22592 ISO 2592	ASTM D 92



Viscosity Grade

CHARACTERISTIC	UNIT	VG40	VG30	VG20	VG10	TEST METHOD	
Absolute Viscosity @60 °C	Poises	3200-4800	2400-3600	1600-2400	800-1200	ASTM D 2171	IS 1206 (Part 2)
Kinematic Viscosity @135 °C, Min	CST	400	350	300	250	ASTM D 2170	IS 1206 (Part 3)
Penetration @25 °C, Min	0.1 mm	35	45	60	80	ASTM D 5	IS 1203
Flash Point, Min	°C	220	220	220	220	ASTM D 92	IS 1448 [P-69]
Solubility in TCE, Min	% WT	99	99	99	99	ASTM D 2042	IS 1216
Softening Point, Min	°C	50	47	45	40	ASTM D 36	IS 1205
Test on residue from rolling thin film oven test							
a)Viscosity Ratio @60 °C, Max		4	4	4	4	ASTM D 2171	IS 1206 (Part 2)
b)Ductility @25 °C, Min	Cm	25	40	50	75	ASTM D 113	IS 1208





Medium-Curing (MC) Bitumen												
CHARACTERISTIC	UNIT	MC30		MC70		MC250		MC800		MC3000		TEST METHOD
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
Kinematic Viscosity @60 °C	CST	30	60	70	140	250	500	800	1600	3000	6000	ASTM D 2171
Flash Point	°C	38	-	38	-	66	-	66	-	66	-	ASTM D 3143
	%VOL	0.2		0.2		0.2		0.2		0.2		ASTM D 95
Distillate to 360												
to 225 °C	%VOL	-	35	-	25	-	25	-	-	-	-	ASTM D 2171
to 260 °C	%VOL	30	70	10	70	5	55	-	15	-	15	ASTM D 3143
to 316 °C	%VOL	75	95	65	93	60	90	15	75	15	75	
Residue from Distillation to 360		50	-	55	-	67	-	80	-	80	-	
Test on Residue Bitumen from Distillation												
Penetration @25 °C	0.1 mm	120	300	120	300	120	300	120	250	120	250	ASTM D 5
Ductility @25 °C	cm	100		100		100		100		100		ASTM D 113
Solubility in TCE	%WT	99		99		99		99		99		ASTM D 2042
Dynamic Viscosity @60 °C, (After Distillation)	Pa.S	30	120	30	120	30	120	30	120	30	120	ASTM D 2027



Rapid-Curing (RC) Bitumen											
CHARACTERISTIC	UNIT	RC70		RC250		RC800		RC3000		TEST METHOD	
		Min	Max	Min	Max	Min	Max	Min	Max		
Kinematic Viscosity @60 °C	CST	70	140	250	500	800	1600	3000	6000	ASTM D 2171	
Flash Point	°C	-	-	27	-	27	-	27	-	ASTM D 3143	
Water Content Max	%VOL	0.2		0.2		0.2		0.2		ASTM D 95	
Distillate to 360											
to 190 °C	%VOL	10	-	-	-	-	-	-	-		
to 225 °C	%VOL	50	-	35	-	15	-	-	-	ASTM D 402	
to 260 °C	%VOL	70	-	60	-	45	-	25	-	ASTM D 402	
to 316 °C	%VOL	85	-	80	-	75	-	70	-	ASTM D 402	
Residue from Distillation to 360		55	-	65	-	75	-	80	-	ASTM D 402	
Penetration @25 °C	0.1 mm	120	300	120	300	120	250	120	250	ASTM D 5	
Ductility @25 °C	cm	100		100		100		100		ASTM D 113	
Solubility in TCE	%WT	99		99		99		99		ASTM D 2042	
Dynamic Viscosity @60 °C, (After Distillation)	Pa.S	60	240	60	240	60	240	60	240	ASTM D 2028	



R Grades							
CHARACTERISTIC	UNIT	R 85/25	R 95/25	R 90/15	R 90/40	R 115/15	TEST METHOD
Specific Gravity @25 °C	——	1.01-1.05	1.01-1.05	1.01-1.05	1.01-1.05	1.01-1.05	ASTM D 70
Penetration @25 °C, 100gm, 5 sec	0.1 mm	20/30	20/30	10/20	35/45	10/20	ASTM D 5
Softening Point, Ring & Ball	°C	80/90	90/100	85/95	85/95	110/120	ASTM D 36
Ductility @25 °C, After TFOT Min	Cm	1.5	1.5	3	5.5	1.5	ASTM D 113
Loss on Heating Max	% WT	0.2	0.2	0.2	0.2	0.2	ASTM D 6
Flash Point Cleveland Open Min	°C	260	260	225	260	260	ASTM D 92
Solubility in CS2 Min	% WT	99	99	99	99	99	ASTM D 4
These data are according to ASTM D 3695 and UNI EN standard							



AC Grade					
CHARACTERISTIC	AC10	AC20	AC30	AC40	TEST METHOD
Viscosity 60 °C (140 °F) Pa.s	100±20	200±40	300±60	400±80	ASTM D 4402
Viscosity 135 °C (275 °F), Cst, Min	150	210	250	300	ASTM D 4402
Penetration 25 °C (77 °F), 100 g, 5s, 0.1mm, Min	70	40	30	20	ASTM D 5
Flash Point, Cleveland open cup, °C (°F), Min	220(425)	230(450)	230(450)	230(450)	ASTM D 92
Solubility in Trichloroethylene, Min	99.0	99.0	99.0	99.0	ASTM D 2042
Test on Residue From Thin-Film Oven Test					
Viscosity Ratio °60C (°F), Pa.s, Max	500	1000	1500	2000	ASTM D 4402 - D 1754
Ductility °25C (°77F), 5cm/min,Cm, Min	50	20	15	10	ASTM D 113

GRADE  
SPEC



## AFRICA

24

Ethiopia, Ghana, Mozambique, Tanzania, Kenya, Zimbabwe, South Africa, Senegal, Rwanda, Uganda, Madagascar, Sudan, Somalia, Djibouti, Congo, Cameroon, Mauritius, Democratic Republic of the Congo, Benin, Zambia, Namibia, Guinea-Bissau, Mauritania, Gambia

## ASIA

19

Georgia, Pakistan, India, Bangladesh, Vietnam, Philippine, Thailand, Myanmar, Nepal, Tajikistan, Turkmenistan, Uzbekistan, China, Taiwan, Singapore, Indonesia, Sri Lanka, Malaysia, Cambodia

50

clients

## MIDDLE EAST

7

UAE, Qatar, Iraq, Turkey, Oman, Yemen, Kuwait





# PACKING

## PACKING



150 Kg in new steel drum

180 Kg in new steel drum

Jumbo Bag

Bulk

Bitutainer



Jumbo Bag:  
Capacity: 1 MT  
Dimension: 85\*85\*60

## JUMBO BAG



## BULK

Bulk fleet  
Capacity: from 1000 MT to 6200 MT

## DRUM



Drum:  
150 Kg  
Height: 86 cm  
Diameter: 50 cm  
Body Thickness: 0.6+0.02 mm

180 Kg  
Height: 98 cm  
Diameter: 50 cm  
Body Thickness: 0.6+0.02 mm

200 Kg  
Height: 98 cm  
Diameter: 55 cm  
Body Thickness: 0.8±0.02 mm



Bitutainer:  
Max GW: Approximately 35,000kg  
Payload: Approximately 28,000kg  
Tare Wt.: Approximately <6,300kg

## BITUTAINER



A large white and blue bulk carrier ship is shown from a side-on perspective. The ship has multiple decks with various equipment, including a red lifeboat mounted on a davit. The hull is dark grey, and the upper structures are white with blue accents. The ship is on the water, and the sky is clear.

Our Own  
Bulk Fleet

**Atra Crown Energy**

Equipped with  
Bitumen carrier Vessels



# 1



## Vessel No: 1

Flag: Cameron

Capacity: 6200MT

Trade Area: Kuwait, Qatar,  
Emirates, UAE, Pakistan, India,  
Singapore, Indonesia, China,  
Malaysia, Philippines, Vietnam,  
Myanmar, Cambodia, Hong  
Kong, Korea, Timor-Leste, Brunei

## Vessel No.1

# 6,200







## Vessel No: 2

Flag: Cameron  
Capacity: 2300MT  
Trade rea: Qatar, UAE,  
Kuwait, Pakistan, India,  
Bangladesh, Sri Lanka,  
Kenya, Tanzania,

**Vessel No: 2**  
**2,300**



## Vessel No: 3

Flag: Cameron  
Capacity: 1500MT  
Trade rea: Qatar, UAE,  
Kuwait, Pakistan, India,  
Bangladesh, Sri Lanka,  
Kenya, Tanzania,  
Kenya, Tanzania,

**Vessel No: 3**  
**1,500**



## Vessel No: 4

Flag: Cameron  
Capacity: 1200MT  
Trade rea: Qatar, UAE,  
Kuwait, Pakistan

**Vessel No: 4**  
**1,200**



## Vessel No: 5

Flag: Panama  
Capacity: 1100MT  
Trade rea: Qatar, UAE,  
Kuwait, Pakistan

**Vessel No: 5**  
**1,100**



# DRUM PACKING

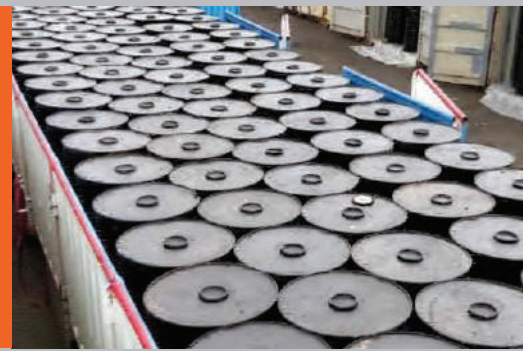


Drum Details

SPECIFICATION	150 KG	180 KG	200 KG
Plate Thickness			
Body	0.6±0.02 mm	0.6±0.02 mm	0.8±0.02 mm
Top & Bottom	0.6±0.02 mm	0.7±0.02 mm	0.8±0.02 mm
Height	86 Cm	98 Cm	98 Cm
Diameter	50 Cm	50 Cm	55 Cm
Lid Hole Position			Center
Lid Hole Diameter	10±1 Cm	10±1 Cm	10±1 Cm
Net Filling Capacity	147±3 Kg	182±3 Kg	200±3 Kg
Gross Weight	156±3 Kg	192±3 Kg	215±3 Kg
Drum Tare Weight	8.2±0.1 Kg	9.5±0.1 Kg	16.0±0.2 Kg
Color	Glossy Black	Glossy Black	Glossy Black
Loading in 20ft Container-With Pallet			
Number of Drums	80	80	80
Bitumen Net Weight	≈12.00 MT	≈14.40 MT	≈16.00 MT
Loading in 20ft Container-Without Pallet			
Number of Drums	110	110	88
Bitumen Net Weight	≈16.50 MT	≈19.80 MT	≈19.80 MT

Supplied Drums of good workmanship and are sufficiently leak-proof when filled with hot bitumen \*

New cold roll steel grade DIN 1623 ST12 \*





The Bitutainers are suitable for the transportation of bulk bitumen by rail, road and ships throughout the world. All materials used in the construction shall withstand extremes of temperature range from °20-C to °230C without effecting on the strength of the container.

The Bitutainers inside shall be fitted with two pairs of heating pipes running from rear to front and back to rear with exhaust at the top. Heating pipes are fastened by "U" bolts. Diameter of heating pipes is 219mm (at flame area) and 159mm (at other area). Two diesel burners installed at the inlet of each heating pipe will carry out heating.

# Bitutainer

## Specification

### Ratings:

- Max GW **35,125 Kgs**
- Payload **28,825 Kgs**
- Tare Wt. **<6,300 Kgs**

### Measures:

- Length **6,058 mm (20')**
- Width **2,438 mm (8')**
- Height **2,591 mm (6'8")**

## Advantages:

- 30 % more carrying capacity compared to regular tank containers
- High-performance factory fitted heating tubes
- High value factory-installed insulation
- Ships as a standard 20ft ISO container with Lloyds approval
- Robust and durable pressed corten steel outer skin
- Great for temporary or long-term storage applications
- Quality of bitumen remain without any change in spec
- Less loss in heating
- Less Freight cost compare to drums

## Heating equipment required:

- Quick Fit Diesel Burners Set
- Stainless Steel Flame Liners





# Jumbo Bag

## Jumbo bag 1000KG

Atra Crown Energy installed Pomer packing system in order to produce high quality jumbo bag bitumen. Pomer packing line using the latest technology for packing the jumbo bag.

Jumbo bag was designed to operate under any weather conditions. The bagged bitumen is placed next to the melting unit and the bag is raised by the crane that is an integral part of the unit. After the outer bag has been removed, the bitumen is then easily melted over the heated burners. The melted product is collected in a storage tank, where it is ready to be used. This melting equipment is especially prepared to guarantee a high heat transfer area, taking into consideration the physical and chemical properties of the product. It therefore minimizes associated energy costs and guarantees the consistency of the product. Jumbo bag offers numerous environmental, safety and stock management advantages. Its structure ensures the simultaneous transport of large quantities of bitumen and its long-term storage capability drastically reduces energy costs.





# OUR CERTIFICATE

**Dedal** Attestation & Certification

Notified body No. 1922  
Bulgaria, 8230 Nesebar  
Mladost #50

## CERTIFICATE

of Conformity of the Factory Production Control

1922 - CPR - 1579

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

**Paving Grade Bitumen - classes: 35/50, 50/70, 70/100, 100/150, 160/220**

placed on the market under the name or trade mark of

**Atra Crown Energy Co.**

**Unit 5, 11th Floor, Artemis Tower, Next to 4th Narenjestan St., Pasdaran**

**St., Tehran, Iran**

and produced in the manufacturing plant

**Atra Crown Energy Co.**

**Bandar Abbas: ACE OIL Factory, After the 1st. Sq., Kalij Fars Industrial Estate, Bandar Abbas, Hormozgan Province, Iran**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12591:2009**

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on 14.06.2021 and will remain valid until 14.06.2022 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address [www.dedal-bg.net](http://www.dedal-bg.net).



Issued:  
Burgas, 14 June 2021  
Ref. No. 01-00

Manager: *Halimova*  
dipl. eng. Anna Vasileva

## CERTIFICATE of REGISTRATION



Certificate Number: QMS1353210721

**Atra Crown Energy (ACE Oil)**

**Unit 5, 11th Floor, Artemis Tower, Fourth Narenjestan Alley,  
Pasdaran St., Tehran, Iran**

*Assessment of the management system demonstrates evidence that the organization adheres to legal and regulatory obligations and contractual agreements by addressing Quality Management System ISO 9001:2015 for the purpose to protect communities and consumers. This certification—instrument is not transferable and remains the property of the International Registration Body BRSM.*

**Scope of activities: Production, Land and Sea Transportation, Storage, Loading of Bitumen and Production of Barrels for Bitumen**

Date of Effectiveness: 13 August 2021

Date of Renewal: 13 August 2024

**BRSM is accredited by IAS member of IAF for the scope and sub scopes of in this certificate**

This certificate is validated annually through on-site surveillance assessments  
Exclusion: 8.3, 8.5.3, 8.5.5

*H. A. Layhi*  
**BRSM** BRSM, Europe Office  
[www.BRSMENA.com](http://www.BRSMENA.com)  
[www.iafcertsearch.org](http://www.iafcertsearch.org)

13 August 2021  
Date



ISO 9001





# Best Awards and Certificates







**ACE Oil** co.

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