



2021 Plan for Production activity Rompetrol Rafinare S.A.

Petromidia Refinery

The main assumptions for production plan and sales plan 2021

Production Plan for PEM – 2021

TOTAL THROUGHPUT: 6,001,442 mt out of which: 5,179,886 mt crude oil, 821,555 mt other feedstock out of which 75,000 mt Straight Run Gasoil in Crude Unit and 337,999 mt Straight Run Gasoil in Hydrotreaters.

1. Feedstock

The types of crude oil planned to be processed in 2021 (mt/year):

- REBCO: 3,643,655
- Siberian Light Crude Oil: 1,130,001
- CPC Crude Oil: 151,231
- Straight Run Gasoil: 75,000

Crude unit throughput: 5,254,886 mt/year (14,802 mt/day for 355 processing days).

Density and Sulphur (average value) for Crude unit throughput resulted after PIMS simulation: 0.865 g/cm³, 1.26 % wt sulphur content.

2. Commercial Assumptions

2.1 Prices

2.1.1 Crude oil price (Brent Dtd – 40 \$/bbl and Ural RCMB – 39.71 \$/bbl)

2.1.2 Products (cracks to Brent: Prem Unl 10 ppm FOB Med – 95.6 \$/mt and ULSD 10 ppm FOB Med – 53.7 \$/mt).

2.1.3 2021 Utilities costs are estimated to be **8.76 \$/mt**, meaning **52.58 mil \$**.

2.2 Structure of products

Product	domestic	export	total
	mt/year	mt/year	mt/year
Auto Gasoline	371,177	940,357	1,311,534
Jet	214,408	32,000	246,408
Auto Diesel	2,193,559	748,472	2,942,031
Fuel oil	165,915	-	165,915
Propylene	158,854	-	158,854
Coke	166,790	76,000	242,790
Sulphur	-	46,598	46,598
Other	711,003	24,814	735,817



products			
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2.2.1 Auto fuels for domestic market (mt/year) – total 2,564,736

2.2.2 Auto fuels for export (mt/year)- total 1,688,830

2.2.3 Products to be delivered to Vega refinery (408,206 mt/year) from which:

- 177,551 Raffinate
- 65,479 C5-C6 cut
- 12,000 Hydrotreated kerosene
- 701 Slurry
- 152,475 Fuel oil

2.2.4 Others:

- Jet A1- 202,408 mt/year (for domestic market)

2021 White Products yield is 86,51 % wt.

Note: Regarding: raffinate, C5-C6 cut, hydrotreated kerosene, slurry and fuel oil, these products will be transferred to Vega Refinery to be processed in order to obtain valuable products.

Auto fuels are sold on domestic market to Rompetrol Downstream (Gasoline Europlus 10 ppm, Gasoline Efix 95, Gasoline Efix S 98, Gasoline RON 98, Diesel Euro 5, Efix Diesel, Efix S 55 Diesel, 55 Diesel).

The other products are sold on domestic market through: Rompetrol Gas, Rompetrol Downstream, Air BP Sales, OMV-Petrom, Heidelbergcement, Lafarge, Holcim, Mol Romania, Oscar Downstream, Socar, Lukoil.

On the export market the products are sold to: KMG Trading (Grecia, Georgia, Bulgaria, Turcia, Lebanon, Serbia), Rompetrol Moldova, Rompetrol Georgia, Rompetrol Bulgaria, and others.

Auto fuels are sold 60.3 % on domestic market and 39.7 % on export market.

3. Unfinished products

The production plan was done with consumption/accumulation of unfinished products.

4. Products Specifications / Technical Assumptions

Gasoline production for domestic market contents min. 8.0% v/v Bio-ethanol according with internal reglementation.

Diesel production for domestic market contents min. 6.5% v/v Bio-Diesel according according with internal reglementation. During Winter period will be produced Extreme Diesel 55, which is a unique product in Romania having CFPP -35 °C and 55 cetane number, the highest cetane number from Romania market.

During 1st of April and 10th of April the Refinery will be in total shut down for 10 days. In this period, will be performed Reformer catalyst regeneration, will be replaced the catalysts for Diesel HT Unit (HPM Unit) and Delayed Coker heater decoking.

**5. Operational Results**

- Gross Refinery P/L: 255,232 mil\$
- Gross Refinery Margin P/L: 42.53 \$/mt

The table below shows a summary of 2021 PEM-production plan:

tons/year

Total Feedstock	6,001,442
Crude oil	5,254,886
Other raw materials	746,555
Finished Products	5,849,947
Gasoline	1,489,085
Jet	246,408
Diesel	2,942,732
Fuel oil	171,315
Gases	263,152
Propylene	158,854
LPG	289,013
Petroleum coke	242,790
Sulphur	46,598
Total Loss	151,494



Vega Refinery

The main assumptions for production plan and sales plan 2021

1. Feedstock

Vega refinery will process raw material from Petromidia Refinery. The total feedstock for 2021 will be **408,277** tonnes in the following structure:

- C5-C6 cut – 65,679 tonnes
- raffinate – 177,551 tonnes
- hydrotreated kerosene – 12,000 tonnes
- slurry – 701 tonnes
- fuel oil – 152,475 tonnes
- polymer for bitumen – 55 tonnes
- marker (dyeguard blue) – 17 tonnes

2. Structure of products

FINITE PRODUCTS	domestic	export	TOTAL
	mt/year	mt/year	mt/year
Ecological solvents	400	47,365	47,765
n-Hexane	2,866	79,275	82,141
Naphtha gasoline	37,529	72,829	110,358
White spirit	3,630	4,259	7,889
Heating oils	9,476	-	9,476
Fuel oil	26,726	-	26,726
Bitumen	119,421	1,000	120,421
TOTAL	200,048	204,728	404,776

Vega refinery is the only east European producer of N-hexane, used in polypropylene production and extraction of vegetable oils in food industry.

Vega refinery is also the only romanian producer of Ecological Solvents – Rompetrol SE, products with lower sulphur and aromatics content and lower toxicity level.

Total volume of petroleum products estimated to be delivered in 2021 is 404,776 tonnes, out of which:

- 49.42% domestic market;
- 50.58% export market.



On the export market the products are sold in India, Turkey, Ukraine, Moldova, Serbia, Uzbekistan, Hungary, Germany, Austria, Italy, Bulgaria, Poland, Bosnia, Czech Republic, Slovakia and Russia.

3. Products Specifications

The finished products for Vega Refinery are produced according to Quality Specific Standards that are in use at the moment and comply with the internal and international standards for these products.

The table below shows a summary of 2021 VEGA-production plan:

Raw materials	408,277
Crude oil	-
Other feedstock	408,277
Finite products	404,776
Ecological solvents	47,765
n-Hexane	82,141
Naphtha gasoline	110,358
White spirit	7,889
Gasoil	3,147
Light liquid fuel	6,329
Fuel oil	26,726
Bitumen	120,421
Consumption	3,501

4. Operational results

- Gross Refinery P/L: 53,748 k\$
- Gross Refinery Margin P/L: 131.6 \$/mt



Petrochemicals AREA

The main assumptions for production plan and sales plan 2021

Production Plan for PETROCHEMICALS AREA – 2021

POLYMERS PRODUCTION: 171,910 mt, out of which:

- PP : 92,485 mt,
- LDPE : 79,425 mt,

PROPYLENE TYPE P PRODUCTION: 31,982 mt

Feedstock

Raw materials planned to be processed in 2021 (mt/year):

- Propane-propylene mixture : 158,854 mt from FCC
- Ethylene : 81,252 mt

1. Commercial Assumptions

2.1 Prices

2.1.1 Raw materials prices:

- Propane-propylene mixture 487 \$/mt;
- Ethylene 705 \$/mt

2.1.2 Products

- PP 842 \$/mt (crack 355 \$/mt)
- LDPE 923 \$/mt (crack 218 \$/mt)
- Propylene type P 582 \$/mt

2.1.3 Utilities costs are estimated to be **144.4 \$/ product mt**, meaning **29.4 mil \$**.

2.2 Sales (mt/year)

	tone/year				
Polymers Sale	171,910	Domestic		Export	
PP	92,485	46,585	50%	45,900	50%
LDPE	79,425	35,000	44%	44,425	56%
Propylene type P sale	30,800	30,800	100%		

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The table below shows a summary of 2020 PETROCHEMICAL AREA-production plan:

tone/year

Total Feedstock	240,105
Propane-propylene mixture	158,854
Ethylene	81,252
Polymers production	171,910
PP	92,485
LDPE	79,425
Propylene type P production	31,982

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PETROMIDIA REFINERY PRODUCTION PLAN 2021	Brent Dtd		\$ 40.00	7.567	\$ 302.68
			bbl	CF	mt
	Ural		\$ 39.71	7.310	\$ 290.27
	Crude Unit			14,802	to/day
	Total			16,905	
Number of days:	355				
	Yield	Quantity	Price		Value
	%	mt	USD/mt		(,000\$)
TOTAL FEEDSTOCK :	100	6,001,442	314.22	1,885,795	
CRUDE OIL	87.56	5,254,886	291.15	1,529,935	
Sour	64.96	3,898,655	287.71	1,121,695	
REBCO	60.71	3,643,655	288.45	1,051,023	
Sweet	21.35	1,281,231	298.47	382,412	
Siberian Light Crude Oil	18.83	1,130,001	297.16	335,786	
CPC Crude Oil	2.52	151,231	308.31	46,626	
Alternative feedstock	1.25	75,000	344.38	25,828	
Gasoil for Crude Unit	1.25	75,000	344.38	25,828	
OTHER FEEDSTOCK :	12.44	746,555	476.67	355,860	
Naphtha	0.63	37,529	300.71	11,285	
Light Naphtha type II	0.63	37,529	300.71	11,285	
Bioethanol feedstock	0.73	43,633	897.92	39,179	
Gasoline Components	0.01	826	464.93	384	
Refomate	0.01	600	438.80	263	
Alkylate	0.00	226	534.21	121	
Methanol	0.36	21,414	296.26	6,344	
Methanol	0.36	21,414	296.26	6,344	
MTBE	0.53	32,018	635.93	20,361	
MTBE Feedstock	0.53	32,018	635.93	20,361	
Chemical grade gas	0.75	45,009	282.61	12,720	
Fuel Oil from Vega for DCK	0.20	12,000	304.10	3,649	
Kero Fuel for non-industrial use type P	0.02	1,485	461.60	685	
Pyrolysis Propane	0.53	31,524	266.00	8,385	
SRGO in Diesel Htr	5.63	337,999	354.46	119,807	
Biodiesel	2.24	134,353	856.55	115,080	
Imported Methane	1.06	63,752	312.53	19,925	
Other	0.50	30,023	358.90	10,775	
Dyeguard Green	0.00	1,224	9,835.50	12	
Diesel component	0.50	30,003	357.05	10,713	
Keropur 5205	0.00	9,398	3,021.75	28	
Keropur 3576	0.00	9,120	2,426.88	22	
FINISHED PRODUCTS:	97.48	5,849,947	365.99	2,141,027	
GASOLINE	24.81	1,489,085	389.29	579,689	
Natural gasoline	0.93	55,550	374.74	20,817	
Natural Gasoline RON 92	0.93	55,550	374.74	20,817	
Unleaded Gasoline	20.93	1,255,984	406.83	510,978	
Efix Gasoline 95	0.36	21,689	439.32	9,529	
intern	0.36	21,689	439.32	9,529	
EuroPlus Unleaded Gasoline Euro 5	8.15	489,207	389.94	190,762	
export	8.15	489,207	389.94	190,762	
EuroPlus Gasoline BIO	7.70	462,205	426.90	197,316	
export	2.15	129,309	417.48	53,985	
intern	5.55	332,896	430.56	143,331	
Gasoline RON 98 (with bio component)	0.24	14,120	498.10	7,033	
intern	0.24	14,120	498.10	7,033	
Gasoline Efix S 98 (with bio component)	0.06	3,644	487.65	1,777	
export	0.02	1,172	495.63	542	
intern	0.04	2,472	499.63	1,235	
Gasoline Euro Standard	4.28	256,667	392.54	101,061	
Benzina Euro Super 98	0.14	8,452	414.20	3,501	

PETROMIDIA REFINERY PRODUCTION PLAN 2021	Brent Dtd		\$ 40.00	7.567	\$ 302.68
			bbl	CF	mt
	Ural		\$ 39.71	7.310	\$ 290.27
	Crude Unit		14,802		to/day
	Total		16,905		
Number of days:	355				
	Yield	Quantity	Price	Value	
	%	mt	USD/mt	(,000\$)	
Gasoline for chemical use	2.96	177,551	269.75	47,894	
Raffinate - for Vega	2.96	177,551	269.75	47,894	
JET FUEL	4.11	246,408	400.61	98,712	
Aviation Turbine Fuel Jet A1	4.11	246,408	400.61	98,712	
export	0.53	32,000	385.14	12,325	
intern	3.37	202,408	399.29	80,820	
intern- for VGA	0.20	12,000	464.01	5,568	
DIESEL FUEL	49.03	2,942,732	414.49	1,219,737	
Diesel Fuel	49.02	2,942,031	414.54	1,219,578	
Diesel Euro 5	17.88	1,073,354	378.44	406,202	
export	11.13	668,002	369.46	246,800	
intern	6.75	405,352	393.24	159,402	
Euro 5 Diesel (Super Diesel Euro 5)	27.79	1,667,794	435.83	726,872	
intern	27.79	1,667,794	435.83	726,872	
Diesel Euro 5 (Winter Diesel)	0.89	53,283	374.52	19,955	
export	0.89	53,283	374.52	19,955	
51 Efix Diesel	1.12	67,130	444.70	29,853	
intern	1.12	67,130	444.70	29,853	
55 Diesel Winter	1.05	63,241	461.52	29,187	
intern	1.05	63,241	461.52	29,187	
55 Efix S Diesel Winter	0.29	17,229	435.81	7,509	
export	0.12	7,242	388.40	2,813	
intern	0.17	9,986	470.20	4,696	
Slurry	0.01	701	227.61	160	
FUEL OIL	2.85	171,315	178.57	30,592	
Fuel Oil	2.85	171,315	178.57	30,592	
Heavy Fuel Oil-vega - Type I	2.54	152,475	175.13	26,703	
FCC residues -exp.	0.22	13,440	210.37	2,827	
Fuel Oil-UTM+export	0.09	5,400	196.57	1,061	
GASES	4.38	263,152	241.96	63,672	
Chemical grade gas	1.09	65,519	264.67	17,341	
Propane fuel	0.00	40	186.82	7	
C5-C6 Cut	1.09	65,479	264.72	17,333	
Fuel gas	3.29	197,632	234.43	46,331	
PROPYLENE	2.65	158,854	487.02	77,365	
LIQUIFIED PETROLEUM GAS	4.82	289,013	187.46	54,178	
Liquified petroleum gas	4.40	264,199	187.70	49,591	
Liquified petroleum gas	3.37	202,242	188.15	38,052	
Automotive LPG	1.03	61,958	186.23	11,538	
Propane-butane Commercial	0.41	24,814	184.88	4,588	
PETROLEUM COKE	4.05	242,790	63.26	15,358	
Petroleum Coke	4.05	242,790	63.26	15,358	
Sorted Petroleum coke for domestic use	0.28	17,000	79.96	1,359	
Green petroleum for type 4	3.76	225,790	62.00	13,999	
export	1.27	76,000	62.00	4,712	
intern	2.50	149,790	62.00	9,287	
SULPHUR	0.78	46,598	37.00	1,724	
TOTAL UNFINISHED PRODUCTS:	0.00	0	-	-	
TOTAL LOSS	2.52	151,494			
LOSS	2.52	151,494			
Loss	2.52	151,494			

PETROMIDIA REFINERY PRODUCTION PLAN 2021	Brent Dtd \$ 40.00 7.567 \$ 302.68			
	bbl CF mt			
	Ural \$ 39.71 7.310 \$ 290.27			
	Crude Unit		14,802	to/day
	Total		16,905	
Number of days:		355		
	Yield	Quantity	Price	Value
	%	mt	USD/mt	(,000\$)
Coke on Catalyst	1.20	71,829		
Hydrogen purge gas	0.52	31,469		
Technological Loss	0.80	48,196		
GROSS REFINERY P/L	11,648		255,232	
GROSS REFINERY MARGIN			43	
GROSS REFINERY P/L,excluding fuel gas			208,901	
GROSS REFINERY MARGIN			35	
white products, %		86.51		-

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VEGA REFINERY Plan January-December 2021	feedstock 1.119 to/day			
	TOTAL 2021			
No.of days	365	Total 2021		
	Efficiency %	Qty (,000 mt)	Price USD/mt	Value (,000 USD)
RAW MATERIALS:	100.00	408.277	229.74	\$ 93,796.746
CRUDE OIL	0.00	0.000		0.00
OTHER RAW MATERIALS :	100.00	408.277	229.74	\$ 93,796.75
Gasoline	59.53	243.030	268.50	\$ 65,253.796
C5-C6 Cut	16.04	65.479	264.83	\$ 17,341.113
Raffinate type IV	43.49	177.551	269.85	\$ 47,912.683
Petroleum	2.94	12.000	353.64	\$ 4,243.701
JET MIDIA	2.94	12.000	353.64	\$ 4,243.701
Gas oil	0.17	0.701	174.18	\$ 122.097
Slurry	0.17	0.701	174.18	\$ 122.097
Fuel Oil	37.35	152.492	157.44	\$ 24,008.864
Dyeguard Blue	0.00	0.017	5,720.00	\$ 94.666
Fuel Oil -Midia	37.35	152.475	156.84	\$ 23,914.199
Polimer SBS	0.01	0.055	3,082.20	\$ 168.288
Other raw materials	0.00	0.000	-	\$ -
FINITE PRODUCTS :	99.14	404.776	364.51	147,545.090
GASOLINE :	58.85	240.264	377.03	\$ 90,587.70
Rompetrol SE	11.70	47.765	362.55	\$ 17,317.18
Rompetrol SE 30/60	11.47	46.840	360.46	\$ 16,883.75
export	11.47	46.840	360.46	\$ 16,883.75
intern	0.00	0.000	-	\$ -
Rompetrol SE 65/80	0.08	0.325	465.25	\$ 151.21
export	0.05	0.200	427.27	\$ 85.45
intern	0.03	0.125	526.02	\$ 65.75
Rompetrol SE 35/80	0.00	0.000		\$ -
Rompetrol SE 75/115	0.15	0.600	470.38	\$ 282.23
export	0.08	0.325	424.24	\$ 137.88
intern	0.07	0.275	524.90	\$ 144.35
Naphtha gasoline	27.03	110.358	302.87	\$ 33,424.30
Light Naphtha type II - export	17.54	71.629	309.22	\$ 22,148.96
Benzina Naphtha - transfer Midia	9.19	37.529	289.91	\$ 10,879.89
Naphtha gasoline- export	0.29	1.200	329.54	\$ 395.45
n-Hexan	20.12	82.141	485.09	\$ 39,846.22
export	19.42	79.275	484.79	\$ 38,431.99
intern	0.07	0.275	574.90	\$ 158.10
Petrochemicals	0.63	2.591	484.80	\$ 1,256.14
WHITE SPIRIT	1.38	5.634	533.64	\$ 3,006.73
Refined white spirit	1.38	5.634	533.64	\$ 3,006.73
export	1.04	4.259	532.91	\$ 2,269.84
intern	0.34	1.375	535.92	\$ 736.89
White spirit	0.00	0.000	-	\$ -
PETROLEUM	0.55	2.255	365.50	\$ 824.04
Liquid fuel for non-industrial use type I	0.43	1.775	341.69	\$ 606.50
Liquid fuel for non-industrial use type I	0.12	0.480	453.60	\$ 217.54
GASOIL	0.77	3.146	406.56	\$ 1,279.18
Rompetrol Calor Extra 1	0.77	3.146	406.56	\$ 1,279.18
intern	0.77	3.146	406.56	\$ 1,279.18
LIGHT LIQUID FUEL	1.55	6.329	314.31	\$ 1,989.35
Light liquid fuel type 3	0.28	1.127	386.69	\$ 435.79
intern	0.28	1.127	386.69	\$ 435.79
Rompetrol Calor Economic 3	1.27	5.202	298.63	\$ 1,553.56
FUEL OIL	6.55	26.726	255.85	\$ 6,837.78
Fuel Oil	6.55	26.726	255.85	\$ 6,837.78
Fuel Oil 40-45 intern	3.61	14.726	267.59	\$ 3,940.51
Fuel Oil 40-45 PEM	2.94	12.000	241.44	\$ 2,897.27
Fuel Oil 40-45 -export	0.00	0.000	-	\$ -
BITUMEN	29.49	120.421	357.25	\$ 43,020.31
Road Bitumen	29.25	119.421	356.25	\$ 42,543.26
Bitumen type D 50/70 export	0.24	1.000	291.70	\$ 291.70
Bitumen type D 50/70	25.09	102.421	356.87	\$ 36,551.39
Bitumen type D 70/100	1.89	7.700	356.46	\$ 2,744.72
Bitumen type D 160/220	2.03	8.300	356.08	\$ 2,955.44
Modified Bitumen	0.24	1.000	477.05	\$ 477.05
'Road bitumen type EUROBITUM	0.24	1.000	477.05	\$ 477.05
OTHER PRODUCTS	0.00	0.000		\$ -
UNFINISHED PRODUCTS	0.00	0.000		0.00
TOTAL CONSUMPTION :	0.86	3.502		0.00
CONSUMPTION	0.86	3.502		0.00
Consumption	0.86	3.502		0.00
Technological consumption	0.86	3.502	-	0.00
Fuel oil for combustion	0.00	0.000	-	0.00
GROSS REFINERY P/L	53,748.3			
GROSS REFINERY MARGIN	131.6			

THE BOARD OF DIRECTORS:

Chairman
Yedil UTEKOV

DocuSigned by:

Yedil UTEKOV

Member
Alexey GOLOVIN

DocuSigned by:

Alexey Golovin

Member and General Manager
Felix CRUDU-TESLOVEANU

DocuSigned by:

Felix Crudu-Tesloveanu

Member
Nicolae B

DocuSigned by:

Nicolae Bogdan Codrut Stanescu

Member
Bogdan-Cătălin STERIOPOL

DocuSigned by:

Bogdan-Catalin Steriopol

Financial Manager
Ramona-Georgiana GĂLĂȚEANU

DocuSigned by:

Ramona-Georgiana Galateanu

Deputy General Manager and Operation
Kuanysh DOSMURATOV

DocuSigned by:

Kuanysh Dosmuratov

Production & Planning Optimization Director
Raluca LAINER

DocuSigned by:

Raluca Lainer

Operations Director
Nicolae NIȚU

DocuSigned by:

Nicolae Nitu

Quality Production Manager
Razvan CRISTEA

DocuSigned by:

Razvan Cristea

PETROMICALS AREA

Production Budget_2021

tone/year

Total Feedstock	240,105
Propane-propylene mixture	158,854
Ethylene	81,252
Polymers production	171,910
PP	92,485
LDPE	79,425
Propylene type P production	31,982

tone/year

Polymers Sale	171,910	Domestic		Export	
PP	92,485	46,585	50.4%	45,900	49.6%
LDPE	79,425	35,000	44.1%	44,425	55.9%
Propylene type P sale	30,800	30,800	100%		

Board of Directors

Chairman

Yedil UTEKOV

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Yedil Utekov

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Member

Alexey Golovin

DocuSigned by:

Alexey Golovin

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Member and General Manager

Felix CRUDU-TESLOVEANU

DocuSigned by:

Felix Crudu-Tesloveanu

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Member

Nicolae E

DocuSigned by:

Nicolae Bogdan Codrut Stanescu

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Member

Bogdan-Cătălin STERIOPOL

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Bogdan-Catalin Steriopol

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Financial Manager

Ramona-Georgiana GĂLĂȚEANU

DocuSigned by:

Ramona-Georgiana Galateanu

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Deputy General Manager and Operations Director

Kuanysh Dosmuratov

DocuSigned by:

Kuanysh Dosmuratov

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Production & Planning Optimization Division

Raluca Lainer

DocuSigned by:

Raluca Lainer

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Operations Director

Nicolae Nitu

DocuSigned by:

Nicolae Nitu

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Petrochemicals Production Manager

Traian Stanica

DocuSigned by:

Traian Stanica

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