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Introduction

The National Petrochemical Company(NPC)of Iran is one of the largest companies around the world which is responsible for producing chemicals and polymers.Today NPC is the second largest producer and exporter of petrochemicals in the Middle east.Over the years ,it has not only expanded the range and volume of its products (specially polymers), but it has also taken steps in areas such as research and technology to achieve its goals and produce products with higher quality.

One of NPC's subsidiaries is Iran Petrochemical Commercial Company (IPCC) which is one of the largest companies in the Middle east engaged in sale and marketing of petrochemical products in the Iranian domestic market as well as export to overseas markets,its current goals are to continually improve the presence and profile of IPCC by upgrading quality and increasing quantities of its facilities, product and services.All for the ultimate satisfaction of its customers and business partners. To meet its objective, IPCC established worldwide subsidiaries : IPCC U.K.Ltd in England , Intra-Chem Trading in Germany , IPCC Singapore ,IPCC Dubai, IPCC Shanghai, IPCC Beijing, IPCC India, IPCC South Korea & IPCC Turkey to carry out its marketing and procurement functions.

NPC's production plants which are using the highest technology to produce polymers, chemicals, Gas and Feed Stocks are as follows

1) Bandar Imam Petrochemical Company (BIPC) which is producer of following Gas and Feed Stocks with below mentioned capacities :

Butane (908,000 mt/y), Raffinate - C4 (62,600 mt/y), Propylene (99,300 mt/y), Propane (1,040,000 mt/y), Naphtha(C5+) (768,000 mt/y), DPG (130,000 mt/y), Ethylene (311,000 mt/y), N2 (---), VCM (180,000 mt/y),

2) Tabriz Petrochemical company (TPC) which is producer of following Gas and Feed Stocks with below mentioned capacities :

B-1 (7,000 mt/y), C4 - Cut (34,000 mt/y), Propylene (56,000 mt/y), Ethylene (136,000 mt/y)

3) Shiraz Petrochemical Company which is producer of following Gas and Feed Stocks with below mentioned capacities :

Ammonia Solution (37,000 mt/y), Argon (5,000 mt/y),

4) Razi Petrochemical Company which is producer of following Gas and Feed Stocks with below mentioned capacities :

Ammonia (660,000 mt/y)

5) Khorasan Petrochemical company which is producer of following Gas and Feed Stocks with below mentioned capacities :

Ammonia (330,000 mt/y)

6) Buali sina Petrochemical Company which is producer of following Gas and Feed Stocks with below mentioned capacities :

Light End (350,000 mt/y), LPG (11,000 mt/y), C5- Cut (21,000 mt/y)

7) Amirkabir Petrochemical company which is producer of following Gas and Feed Stocks with below mentioned capacities :

PG (137,000 mt/y), H2 (---), Ethylene (520,000 mt/y), Propylene (158,000 mt/y), CFO (23,500 mt/y)

BUTANE

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Ethane	mol %	G.C	0.08 max
2	Propane	mol %	G.C	2 max
3	Total – C ₄	mol %	G.C	97.5 min
4	Total – C ₅	mol %	G.C	0.82 max
5	Sp. Gr. @ (60/60°F)	--	ASTM D-2598	To Be Reported
6	Copper Corrosion	--	ASTM D-1838	No.1a max
7	Total Sulphide	Wt.ppm	(BASED ON ASTM D-3246)	30 max
8	Hydrogen Sulphide	Vol.ppm	ASTM D-2420/DRAGE	Nil
9	Vapor Pressure @ (100°F)	Psig	ASTM D-2598	70 max
10	Water Content	Vol.ppm	SHAW DEW POINT	10 max
11	Residue on Evaporation	Vol %	ASTM D-2158	0.05 max

Shipping : Bulk Carrier

Raffinate - C4

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	ISO & Normal Butane	mol %	G.C	28 max
2	1- Butene	mol %	G.C	25 max
3	ISO - Butene	mol %	G.C	45 min
4	Trans & Cis butene-2	mol %	G.C	22 max
5	1,2 & 1,3 Butadiene	mol %	G.C	1 max
6	Methyl Acetylene	mol %	G.C	0.5 max
7	Vinyl Acetylene	mol %	G.C	0.2 max
8	Eethyl Acetylene	mol %	G.C	0.2 max
9	Sp. Gr @ (15.6°C)	--	ASTM D-2598	To Be Reported
10	Total Sulphur	Wt.ppm	Microcoulometry	1 max
11	Copper Corrosion	--	ASTM D-1838	No.1a
12	C3 & Lighter HC	mol %	G.C	0.05 max
13	C5 & Heavier HC	mol %	G.C	0.1 max
14	R.V.P @ (100°F)	Psia	ASTM D-1267	70 max
15	Evaporated Temp, 95%	°C	ASTM D-1837	-2.5 max
16	Residue on Evaporation	Vol %	ASTM D-2158	0.05 max
17	Water Content	wt.ppm	Evaporation Method	700 max

Shipping : Bulk Carrier

1- BUTENE

PROPANE

TABRIZ PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Purity	Vol %	--	99 min
2	Other Butenes	Wt.ppm	--	2.200 max
3	N-Butane	Wt.ppm	--	2.200 max
4	Propanadienes +1,3-Butadiene	vol.ppm	--	200 max
5	Total Acetylenies	Vol.ppm	--	10 max
6	C ₆ 'S	Vol.ppm	--	500 max
7	Ethane	Wt.ppm	--	200 max
8	Ethylene	Wt.ppm	--	500 max

Shipping : Bulk Carrier

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Ethane	mol %	G.C	0.4 max
2	Propane	mol %	G.C	98 min
3	Butane	mol %	G.C	1.4 max
4	Pcntancs & Heavirc	mol %	G.C	0.01 max
5	Copper Corrosion	--	ASTM D-1838	No.1a max
6	Hydrogen Sulphide	Vol.ppm	ASTM D-2420 / DRAGER	5 max
7	Sp. Gr @ (66/60°F)	--	ASTM D-2598	To Be Reported
8	Sulphur (Volatile)	Wt.ppm	(BASED ON ASTM D-3246)	30 max
9	Vapor Pressure @ (100°F)	Psig	ASTM D-2598	200 max
10	Water Content	--	ASTM D-2713	Pass

Shipping : Bulk Carrier

NAPHTHA (C₅+)

HEXANE

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Density @ (15.6°C)	gr/cm ³	ASTM D-4052	0.735 max
2	R.V.P.	Psia	ASTM D-323	12 max
3	Color Saybolt	--	ASTM D-156	16 min
4	Lead Content	Wt.ppm	ASTM D-3559	20 max
5	Total Sulphur	Wt.ppm	ASTM D-3120	300 max
6	I.B.P.	°C	ASTM D-3120	30 max
7	F.B.P.	°C	ASTM D-86	180 max
8	Paraffins	Wt %	G.C	70 max
9	Olefines	Wt %	G.C	1 max
10	Naphthenes + Aromatics	Wt %	G.C	Balance
11	Total Chlorides	Wt.ppm	IP-AK/81	10 max

Shipping : Bulk Carrier

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Total Butane	wt %	G.C	--
2	Iso Pentane	wt %	G.C	--
3	Normal Pentane	wt %	G.C	--
4	2,2 - Dimethylbutane	wt %	G.C	--
5	2,3 - Dimethylbutane	wt %	G.C	--
6	2 - Methylpentane	wt %	G.C	--
7	3 - Methylpentane	wt %	G.C	--
8	Normal Hexane	wt %	G.C	50 min
9	Methylcyclopentane	wt %	G.C	--
10	Benzene	wt %	G.C	--
11	Cyclohexane	wt %	G.C	4.5 max
12	Total Hexane	wt %	G.C	97 min
13	Heptane Plus	wt %	G.C	--
14	Density @ (15.6°C)	gr/cm ³	ASTM D-4052	To Be Reported

Shipping : Bulk Carrier

C₄ - Cut

ARGON

TABRIZ PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	1,3 Butadiene	Wt %	G.C	43-60
2	Methyl Acetylene	Wt %	G.C	0.15 max
3	Ethyl Acetylene	Wt %	G.C	0.6 max
4	Vinyl Acetylene	Wt %	G.C	2.5 max
5	1,2 Butadiene	Wt %	G.C	0.8 max
6	1- Butane	Wt %	G.C	0.3 – 4
7	N-Butane	Wt %	G.C	2 – 9
8	Propadiene	Wt %	G.C	0 – 1
9	T-2-Butene	Wt %	G.C	2 – 7
10	1-Butene	Wt %	G.C	8 – 13
11	1-Butene	Wt %	G.C	15 – 26
12	C-2-Butene	Wt %	G.C	1.5 – 5
13	C5'S	Wt %	G.C	< 0.3

Shipping : Bulk Carrier

SHIRAZ PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Purity	Wt %	ANALYSED BY ANALYSER	99.9995 min
2	N ₂	Wt.ppm	ANALYSED BY ANALYSER	3 max
3	H ₂	Wt.ppm	ANALYSED BY ANALYSER	1 max
4	CH ₄	Wt.ppm	ANALYSED BY ANALYSER	0.5 max

Shipping : Specific Sylander

ARGON

FAJR PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	Purity	Wt %	ANALYSED BY ANALYSER	99.9995 min
2	O ₂	Wt.ppm	ANALYSED BY ANALYSER	4 max
3	N ₂	Wt.ppm	ANALYSED BY ANALYSER	1 max

Shipping : Specific Sylander

ETHYLENE

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Purity	mol %	G.C	99.95 min
2	Impurity Paraffins	Vol.ppm	G.C	500 max
3	Propylene & Higher Olefins	Vol.ppm	G.C	10 max
4	Acetylene	Vol.ppm	G.C	3 max
5	Carbon Monoxide	Vol.ppm	G.C	3 max
6	Carbon Dioxide	Vol.ppm	G.C	3 max
7	Hydrogen	Vol.ppm	G.C	5 max
8	Total Sulphur	Vol.ppm	BASED ON ASTM D-3246	2 max
9	Oxygen	Vol.ppm	G.C	2 max
10	Water Content	Vol.ppm	SHAW DEW POINT	1 max
11	Ammonium+Amin comp.	Vol.ppm	G.C	Nil

Shipping : Bulk Carrier

ETHYLENE

AMIR KABIR PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	Ethylene	Vol %	Linde Instr.553	99.95 min
2	Hydrogen	Vol ppm	ASTM D-1946	5 max
3	Methane ÷ Ethane	Vol ppm	Linde Instr.553	500 max
4	Acetylene	Vol ppm	Linde Instr.553	1 max
5	Propylene ÷ Higher	Vol ppm	Linde Instr.553	10 max
6	Carbon Monoxide	Vol ppm	ISO6381	0.2 max
7	Carbon Dioxide	Vol ppm	ISO6381	1 max
8	Oxygen	Vol ppm	Oxygen Analyzer(TELEDINE)	1 max
9	Water	Vol ppm	H2O Analyzer(show Dew point meter)	1 max
10	Sulphur as H2S	Vol ppm	ASTM E 840	1 max
11	Methanol	Vol ppm	Linde Instr.535	1 max
12	Oxygenated Organics	Vol ppm	Linde Instr.535	1 max
13	Carbonyl Sulphide	Vol ppm	ASTM D-6228	0.1 max

Shipping : Bulk Carrier

NITROGEN

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Purity	mol %	G.C	99.998 min
2	Carbon Monoxide	vol.ppm	G.C	1 max
3	Carbon Dioxide	vol.ppm	G.C	1 max
4	Oxygene	vol.ppm	G.C	5.0 max
5	Acetylene	vol.ppm	G.C	0.05 max
6	Total Hydrocarbon	vol.ppm	G.C	1.0 max
7	Water Content	vol.ppm	SHAW DEW POINT	8.0 max

Shipping : specific sylander

NITROGEN

FAJR PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Purity	Vol %	--	99.99 min.
2	Oxygen	ppm	--	2 max.
3	Co Content	ppm	--	10 max.
4	Co2 Content	ppm	--	1 max.
5	H2 Content	ppm	--	1 max.
6	Water Content	ppm	--	1 max.
7	Chloride	ppm	--	Nil
8	s	ppm	--	0.2 max.

Shipping : specific sylander

PROPYLENE (Polymer Grade)

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Purity	Vol %	G.C	99.7 min
2	Propane & Heavier	Vol %	G.C	Balance
3	Ethane	Vol.ppm	G.C	30 max
4	Ethylene	Vol.ppm	G.C	2 max
5	Acetylene	Vol.ppm	G.C	1 max
6	Methylacetylene	Vol.ppm	G.C	1 max
7	Propadiene	Vol.ppm	G.C	2 max
8	Total – C ₄ 'S	Vol.ppm	G.C	1 max
9	Hydrogen	Vol.ppm	G.C	5 max
10	Methane	Vol.ppm	G.C	10 max
11	Carbon Monoxide	Vol.ppm	G.C	0.3 max
12	Carbon Dioxide	Vol.ppm	G.C	2 max
13	Oxygen	Vol.ppm	G.C	2 max
14	Water Content	Vol.ppm	G.C	5 max
15	Total Sulphur	Vol.ppm	G.C	2 max
16	Methanol & Ketones	Vol.ppm	G.C	5 max

Shipping : Bulk Carrier

NITROGEN

TABRIZ PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Purity	mol %	--	99.65 min.
2	Oxygen	ppm	--	3 max.
3	Argon	mol %	--	0.05 max.

Shipping : specific sylander

HEPTANE

BANDAR IMAM PETROCHEMICAL CO.

#	Property	Units	Test Method	Value
1	Total Butane	Wt %	G.C	--
2	Total Pentane	Wt %	G.C	--
3	Total Hexane	Wt %	G.C	--
4	Iso Paraffin Heptane	Wt %	G.C	--
5	Naphthane Heptane	Wt %	G.C	--
6	Normal Heptane	Wt %	G.C	38.6 min.
7	Total Heptane	Wt %	G.C	88 min.
8	Total Octane & Heavier	Wt %	G.C	--
9	Aromatic Benzene Toluene C ₈ Aromatic	Wt %	G.C	--
10	Density @ (15.6°C)	gr/cm ³	ASTM D-4052	To Be Reported

Shipping : Bulk Carrier

LPG

BUALI SINA PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	GC		(ISO 7941)	
2	H2	Mol%		MAX 1.5
3	C1	Mol%		MAX 0.5
4	C2	Mol%		MAX 9
5	C5	Mol%		MAX 2.5
6	C6+	Mol%		MAX 0.4
7	N2	Mol%		MAX 0.1

Shipping : Bulk carrier

LIGHT END

BUALI SINA PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	PONA Paraffinic Olefinic Naphthenic Aromatic Others	Wt % Wt % Wt% Wt% Wt% Wt%	ASTM D – 5134	86 – 97 0 – 1.67 0.47 – 5.5 0 – 5 0 – 0.02
2	Total sulfur	ppm	ASTM D – 3120	850 - 1260
3	Water content	ppm	ASTM D - 1744	160

Shipping : Bulk carrier

C5 - Cut

BUALI SINA PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	C2	Mol%	---	0.02
2	C3	Mol%	---	0.06
3	C4	Mol%	---	0.3
4	C5	Mol%	---	98.22
5	C6	Mol%	---	1.4
6	Total	Mol%	---	100

SP.Gr	0.65-0.7
Br.NO	100-181
M.A.V	1.3-8.6

Shipping : Bulk carrier

HYDROGEN

AMIR KABIR PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	Hydrogen Content	Vol %	ASTM D-1946	99.9 min
2	CO	Vol ppm	ISO6381	5 max
3	CH4, N2	Vol ppm	ASTM D-2505	Balancc max
4	C2H4	Vol ppm	Linde Instr.553	10 max

Shipping : Bulk carrier

PROPYLENE

AMIR KABIR PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	Propylene	Vol %	Linde Instr.553	99.8 min
2	propane & heavier	Vol %	Linde Instr.553	Balance
3	Methane	Vol ppm	Linde Instr.553	10 max
4	Ethane	Vol ppm	Linde Instr.553	20 max
5	Hydrogen	Vol ppm	ASTM D-1946	5 max
6	Ethylene	Vol ppm	Linde Instr.553	1 max
7	Acetylene	Vol ppm	Linde Instr.553	1 max
8	C4 HC	Vol ppm	Linde Instr.553	1 max
9	Methyle acetylene	Vol ppm	Linde Instr.553	1 max
10	Propadiene	Vol ppm	Linde Instr.553	2 max
11	Carbonyl monoxide	Vol ppm	ISO6381	0.2 max
12	Carbonyl dioxide	Vol ppm	ISO6381	2 max
13	Water	Vol ppm	H2O Analyzer(show Dew point meter)	5 max
14	Toyal Sulphur	Vol ppm	ASTM E 840	2 max
15	Methanol ÷ Ketones	Vol ppm	Linde Instr.553	5 max

Shipping : Bulk carrier

PROPYLENE

TABRIZ PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	Propylene	mol %	G.C	99.7 min
2	Propane	mol ppm	G.C	2800 max
3	Ethane	mol ppm	G.C	30 max
4	Ethylene	mol ppm	G.C	2 max
5	Acetylene	mol ppm	G.C	1 max
6	Methyl Acetylene	mol ppm	G.C	1 max
7	Propadiene	mol ppm	G.C	2 max
8	C4'S	mol ppm	G.C	1 max
9	Methane	mol ppm	G.C	10 max
10	CO	mol ppm	G.C	0.3 max
11	CO2	mol ppm	G.C	2 max

Shipping : Bulk carrier

PROPYLENE (Chemical)

BANDAR IMAM PETROCHEMICAL CO.

#	PROPERTY	Units	Test Method	Value
1	Purity	mol %	G.C	92 min
2	Paraffins	mol %	G.C	8 max
3	Ethylene	mol - ppm	G.C	10 max
4	Acetylene	mol - ppm	G.C	1 max
5	Methylacetylene + Propadiene	mol - ppm	G.C	10 max
6	Butadiene	mol - ppm	G.C	5 max
7	Butanes & Butenes	mol - ppm	G.C	20 max
8	Total Sulphur	wt.ppm	MICROCOULOMETRY (BASED ON ASTM D-3246)	2 max
9	Water Content	vol.ppm	SHAW DEW POINT	2.5 max
10	Nitrogen	mol - ppm	G.C	Nil
11	Hydrogen	mol - ppm	G.C	10 max
12	Carbon Monoxide	mol - ppm	G.C	5 max
13	Carbon Monoxide	mol - ppm	G.C	10 max
14	Oxygene	mol - ppm	G.C	5 max
15	Oxygenated Organic Compound (Methanol)	mol - ppm	G.C	5 max
16	Sp. Gr. @ (60 / 60°F)	---	ASTM D-2598	To Be Reported

Shipping : Bulk carrier

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