TRANSRISK





Report for week beginning 1 July 2017

		Global Feedsto	ock Price Outlo	ok Summary			
29 Jun 2017	ICE Brent Cru Oil Aug'17 USD/Barrel	Naphtha CFR Far East USD/MT	Ethylene CFR South East Asia USD/MT	Propylene CFR South East Asia USD/MT	PTA CFR South East Asia USD/MT	MEG CFR South East Asia USD/MT	
Closing Prices	47.42	411.25	885	775	625	805	
Change since 16 Jun 2017	+0.05	-0.75	0	+35	-10	+10	
	Critical Price	drivers			Price Dir	ection	
	Weak trend	in crude oil price	es		Downward		
Fundamental	PTA and MEG	G refinery shutd	Upward				
Summary	Decline in PP	imports to Chir	Downward				
	High PE prod	luct margins	Downward				
	Recovery in f	feedstock prices	Upward				
	ICE Brent Cru	ude Oil July'17	Naphtha CFR	Far East	Ethylene CFR S Asia	South East	
Price Outlook Summary	Driege are likely to stay			ly to stay d trade s 425 to turning	Prices are likely above 870 and higher towards	consolidate	
	0 to 1 Month	0 to 2 Months		0 to 2 Months		0 to 2 Months	
Direction	Downward	Downward	Upward	Mixed	Mixed	Mixed	

Price Range	44.00 to 51	41 to 51	435 to 395	450 to 395	930 to 870	950 to 870
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Price Outlook Summary	Propylene CFR South East Asia		PTA CFR South East Asia		MEG CFR South East Asia	
	Prices are lik support arou trade mixed	und 680 and	Prices are lik higher towa holding abov	rds 670 by	Prices are like higher toward 900 by holdin	ds USD 855 to
	0 to 1 Month	0 to 2 Months	0 to 1 Months	0 to 2 Months	0 to 1 Months	0 to 2 Months
Direction	Downward	Mixed	Upward	Mixed	Upward	Upward
Price Range	700 to 800	680 to 800	670 to 625	685 to 625	855 to 745	900 to 745

	Expected Price Revision +/-									
Products	Current Price	July 2017	Aug 2017	Sep 2017						
South Korea, HDPE, Injection USD/ton	1140	-10	-20	+20						
Saudi Arabia, HDPE, Injection USD/ton	1070	-10	-20	+20						
Germany, HDPE, Injection EUR/ton	1335	-10	-20	+20						
South Korea, PP, Injection USD/ton	1150	-10	+20	+10						
Saudi Arabia, PP, Injection USD/ton	1090	-10	+20	+10						
Germany PP, Injection USD/ton	1275	-10	+10	+10						
South Korea PET, Bottle USD/ton	960	+10	+10	0						
Germany PET, Bottle USD/ton	1105	+10	+10	0						

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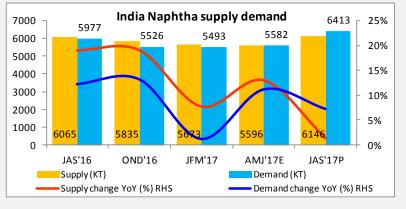


Fundamental Analysis: Feedstock – Upstream (Crude oil and Naphtha)

- Crude oil prices dipped further in the first few days of the last fortnight but started to recover gradually, rising to week highs supported by Dollar weakness and decline in weekly US crude oil production levels.
- ❖ US crude oil inventories witnessed a marginal increase of 0.12 million barrels in the week ending 23rd Jun to 509.21 million barrels from 509.10 million barrels a week earlier. Overall, US crude oil stocks have declined by a cumulative of 26.33 million barrels since the start of April, as the refinery activity has picked up pace.
- ❖ At the demand front, four week average gasoline demand is currently about 2.3% lower compared to the demand during same period last year, despite the start of the summer driving season in US, casting a shadow on demand growth outlook.
- ❖ Meanwhile, US weekly crude oil production levels declined to 9.25 MBpd in the week ending 23rd Jun from 9.35 MBpd a week earlier majorly due to the operations being hit at gulf coast because of Tropical Storm Cindy. Four week average crude oil production is currently 7.2% higher compared to same time last year.
- ❖ At the naphtha front, India's naphtha supply during Apr-Jun'17 quarter is estimated to have increased by 13% to 5.59 million tons compared to 4.95 million tons during same period last year, majorly driven by the production increment.
- ❖ Meanwhile, India's naphtha consumption in the current quarter is estimated to have

increased by 11% to 5.58 million tons compared to 5.02 million tons, aided by 30% YoY growth in exports despite the consumption improving at a marginal rate of 2% YoY during Apr-Jun quarter in 2017.

Going ahead, however, Naphtha consumption is expected to witness strong growth due to



increase in domestic demand for higher packaging sector products demand ahead of festive season as well as fertilizer production along with continuing robust growth momentum in

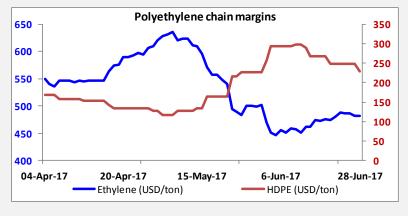
Naphtha exports is expected remain supportive to prices while the supply growth is expected to moderate due to decline in imports.

Fundamental Analysis: Resins and Films

- Polyethylene resin prices in South Korea and Middle East witnessed sharp decline in the past fortnight owing to weak demand in the market as well as the impact of decline in feedstock ethylene prices earlier.
- ❖ Meanwhile, polypropylene and PET resin prices remained unchanged in South East Asia and Middle East supported by improving regional buying activity. Further, PET edged higher in European region supported by rise in feedstock PTA prices.
- China's Polypropylene imports in the first five months of 2017 have increased by 18.2% YoY to 1392 thousand tons compared to 1178 thousand tons during same month last year amid lower operating rates due to extended refinery maintenances along with strong demand. China's PP margins have declined in the past two years, due to improving operating rates and new capacities coming online in the market. During 2016, total PP imports to China have declined by 11.2% to 3017 thousand tons from 3397 thousand tons during 2015.
- Going ahead, despite the strong demand growth in China due to the refineries ramping up production in the coming months with facilities coming back online after the maintenances, PP imports are likely to grow at a marginal pace.
- ❖ Feedstock Ethylene prices were unchanged during last two weeks, stabilizing after the sharp

12% decline in prices during past month owing to weakness in upstream prices along with decline in regional demand.

Firmer trend in feedstock prices compared to PE product prices has led to recovery in margins for Ethylene in the past fortnight. Going ahead, with crude oil prices turning higher, Ethylene prices are



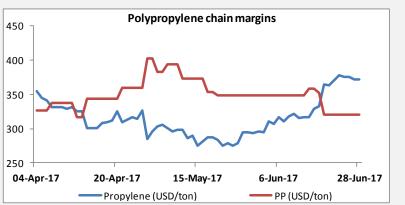




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expected to witness further recovery in Ethylene margins, while product margins are likely to come down in the coming month, resulting in PE material tightness.

- ❖ Meanwhile, Propylene feedstock prices edged higher in the past two weeks supported by recovery in crude oil prices and improving regional demand.
- Amid recovery in feedstock prices, Propylene margins have improved marginally in the past week. However, Propylene price ratio with crude oil is seen to lower than typical levels resulting in margins being at subdued levels than normal. Extended weakness in Propylene margins along with higher margins for PP products is



- likely to result in tightness feedstock material availability in the medium term.
- ❖ At the PTA front, prices have edged lower in the past week as the supplies are seen increasing after the capacities shut earlier have come back and started ramping up the production while MEG prices have traded higher in the past two weeks supported by higher demand in the market.
- ❖ Meanwhile, PET product margins continued to remain in a mixed range, but higher than average margins in past year.

Plant Updates

		Global Plant Updates								
Plant	Location	Product	Type of closure	Closing date	Restart date	Capacity (KTPA)	Impact			
Hengli Petrochemical	China	PTA	Maintenance turnaround	27 Jun	End of July	2200	Upward			
Sinopec Shanghai	Shanghai, China	MEG	Maintenance turnaround	10 May 2017	12 July 2017	380	Downward			

Petrochemical							
Xinjiang Tianye	China	MEG	Maintenance turnaround	Jun 6,2017	Mid July	250	Downward
Hanbang Petrochemical	China	PTA	Maintenance turnaround	Mid- June	Mid – July	1100	Downward
Sinopec Yangzi Petrochemical	China	PP	Maintenance turnaround	May 15 th	NA	400	Upward
CMMFC (China Man-made fiber corporation)	Taiwan	MEG	Delayed restart	Mid-Feb	NA	200	Upward

ASIA (SOUTH KOREA)

Procurement Strategy: South Korea HDPE Injection

South Korea Injection Procurement Strategy for spot month*							
	Pricing Window			Already Priced			
Open Position	Start	End	Avg Till Date	Weighted Average Price	Quantity		
		01 June 30 June 2017 2017		1180	100%		
	01 June 2017			Yet to be Priced (Remaining quantity)			
	2017 2017			NA	0.00%		
Strategy Review		ne'17 buyin average of U	-	covered at average of USD 12	00 compared		
Closed Positions Audit	Market	Perio	d	Procurement saving (Bettering the market a			

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TRANSRISK Exposure – P&L – VaR





South Korea 2011 to Till Date 0.45%
HDPE
Injection June 2017 0.14%
Spot USD/MT

Procurement Strategy: South Korea LDPE Injection

South Korea LDPE Injection Procurement Strategy for spot month*							
	Pricing Wir	ndow		Already Priced			
	Start	End	Avg Till Date	Weighted Average Price	Quantity		
Open Position				1370	100%		
	01 June 2017	30 June 2017	1395	Yet to be Priced (Remaining	g quantity)		
	2017	2017		NA	0.00%		
Strategy Review	100% of Ju to market a	·		covered at average of USD 14	05 compared		
	Market	Perio	Ч	Procurement savings %			
	IVIAIREL	reno	u	(Bettering the market average)			
Closed Positions Audit	South Kore	a 2011	to Till Date		0.67%		
Tidale -	LDPE Injection Spot USD/N		June 2017 0.50				
* Please contact En	gagement m	anager for	forward / long te	rm buying strategies			

Procurement Strategy: South Korea LLDPE Injection

South Korea LLDPE Injection Procurement Strategy for spot month*							
	Pricing Wind	wob		Already Priced			
	Start	End	Avg Till Date	Weighted Average Price	Quantity		
Open Position					0%		
		30 June 2017	1210	Yet to be Priced (Remaining o	quantity)		
	2017			1180	100%		
Strategy Review	100% of June to market av	- · · · · · · · · · · · · · · · · · · ·	= :	overed at average of USD 1210) compared		
	Market	Perioc	ı	Procurement savings	%		
	iviainet	renoc		(Bettering the market ave	erage)		
Closed Positions Audit	South Korea	2011 t	o Till Date		0.71%		
Addit	LLDPE Injection Spot USD/M	June 2 T	017		0.91%		

^{*} Please contact Engagement manager for forward / long term buying strategies

Procurement Strategy: South Korea PP Injection

South Korea PP Injection Procurement Strategy for spot month*						
	Pricing Wi	ndow		Already Priced		
	Start	End	Avg Till Date	Weighted Average Price	Quantity	
Open Position					0%	
	15 June 2017	16 July 2017	1141.53	Yet to be Priced (Remaining	quantity)	
	2017	2017		At current Price	100%	
Strategy Review		•	ng was covered at USD 1141.48.	an average price of USD 1140) compared	

^{*} Please contact Engagement manager for forward / long term buying strategies

TRANSRISK





Closed Positions	Market	Period	Procurement savings % (Bettering the market average)
Audit	South Korea	2011 to Till Date	1.02%
	PP Injection Spot USD/MT	June 2017	0.13%

^{*} Please contact Engagement manager for forward / long term buying strategies

Procurement Strategy: South Korea PET Bottle Grade

Sou	South Korea PET Bottle Grade Procurement Strategy for spot month*						
	Pricing Wi	ndow		Already Priced			
	Start	End	Avg Till Date	Weighted Average Price	Quantity		
Open Position				960	100%		
	01 June 2017	30 June 2017	953.33	Yet to be Priced (Remaining	g quantity)		
	2017	2017		NA	0.00%		
Strategy Review		•	ng requirements USD 944.07.	covered at average of USD 9	50 compared		
	Market	Perio	d	Procurement saving (Bettering the market a			
Closed Positions Audit	South Kore	ea 2011	to Till Date		0.54%		
	PET Bottle Grade Spot USD/MT	t _{June}	2017		-0.63%		
* Please contact En	gagement m	anager for	forward / long te	rm buying strategies			

MIDDLE EAST (SAUDI ARABIA)

Procurement Strategy: Saudi Arabia HDPE Injection

Saudi Arabia Injection Procurement Strategy for spot month*						
	Pricing Win	dow		Already Priced		
	Start	End	Avg Till Date	Weighted Average Price	Quantity	
Open Position				1105	100%	
		30 June 2017	1112.71	Yet to be Priced (Remaining	quantity)	
	2017	2017		NA	0.00%	
Strategy Review	100% of Jun to market a	•		overed at average of USD 113	5 compared	
	Market	Period	1	Procurement savings	%	
	IVIAINEL	renoc	1	(Bettering the market av	erage)	
Closed Positions Audit	Saudi Arabia	a 2011 t	to Till Date		0.80%	
	HDPE Injection June 2 Spot USD/MT		2017		0.08%	

^{*} Please contact Engagement manager for forward / long term buying strategies

Procurement Strategy: Saudi Arabia LDPE Lamination

Saudi Arabia Qatar LDPE Lamination Procurement Strategy for spot month*							
	Pricing Wir	ndow		Already Priced			
Open Position	Start	End	Avg Till Date	Weighted Average Price	Quantity		
	01 June	30 June	1471.25		0%		

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	2017 2	017	Yet to be Priced (Remaining qua	ntity)
			Price at Current Level	100%
Strategy Review		17 buying requirements on the contract of USD 1493.70.	covered at average of USD 1480 co	mpared
Market	Period	Procurement savings % (Bettering the market average	ge)	
Closed Positions Audit	Saudi Arabia	2011 to Till Date		0.87%
- Addit	Qatar LDPE Lamination Spot USD/MT	June 2017		0.92%

^{*} Please contact Engagement manager for forward / long term buying strategies

Procurement Strategy: Saudi Arabia LLDPE Injection

Saudi Arabia LLDPE Injection Procurement Strategy for spot month*						
	Pricing Wine	dow		Already Priced		
	Start	End	Avg Till Date	Weighted Average Price	Quantity	
Open Position					0%	
	01 June 2017	e 30 June 2017	1204.17	Yet to be Priced (Remaining	quantity)	
	-0-/			Price at current Level	100%	
Strategy Review		100% of June'17 buying requirements covered at average of USD 1200 compared to market average of USD 1218.18.				
	Market	Period	l	Procurement saving	s %	
Closed Positions	Warket	1 01100		(Bettering the market av	verage)	
Audit	Saudi Arabia	a 2011 t	to Till Date		0.57%	
	LLDPE Injection	luno 2017			1.49%	

Spot USD/MT

Procurement Strategy: Saudi Arabia PP Injection

Saudi Arabia PP Injection Procurement Strategy for spot month*							
	Pricing Win	dow		Already Priced			
	Start	End	Avg Till Date	Weighted Average Price	Quantity		
Open Position					0%		
		30 June 2017	1085.41	Yet to be Priced (Remaining	quantity)		
	2017	2017		Price at Current Level	100%		
Strategy Review		100% of June'17 buying requirements covered at average of USD 1090 compared to market average of USD 1076.66.					
	Market Period		d	Procurement saving	s %		
Closed Positions Audit Saudi Arabia PP Injection Spot USD/M	IVIAINEL	Perio	u	(Bettering the market av	verage)		
		to Till Date		0.79%			
	_		2017		-1.23%		

^{*} Please contact Engagement manager for forward / long term buying strategies

EUROPE (GERMANY)

Procurement Strategy: Germany HDPE Injection

Germany Injection Procurement Strategy for spot month*

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^{*} Please contact Engagement manager for forward / long term buying strategies





Decision enabling market analysis & price outlook

	Pricing Win	dow		Already Priced		
	Start	End	Avg Till Date	Weighted Average Price	Quantity	
Open Position				1335	100%	
		30 June 2017	1363.25	Yet to be Priced (Remaining	quantity)	
2017	2017		NA	0.00%		
Strategy Review	100% of June'17 buying requirements covered at average of EUR 1380 compared to market average of EUR 1409.54.					
	Market	Period	4	Procurement savings	s %	
	Widiket	1 61100	4	(Bettering the market av	verage)	
Closed Positions Audit	Germany	2014	to Till Date		0.36%	
ĺ	HDPE Injection Spot USD/M	June 2 1T	2017		2.06%	
* Diagram						

^{*} Please contact Engagement manager for forward / long term buying strategies

Procurement Strategy: Germany LDPE GP

Germany LDPE GP Procurement Strategy for spot month*						
	Pricing Wir	ndow		Already Priced		
	Start	End	Avg Till Date	Weighted Average Price	Quantity	
Open Position			1445.25		0%	
	01 June 30 June 2017 2017	30 June 2017		Yet to be Priced (Remaining quantity)		
		2017		Price at Current Level	100%	
Strategy Review	100% of June'17 buying requirements covered at average of EUR 1450 compato market average of EUR 1482.05.				0 compared	
Closed Positions	Market	Period	ı	Procurement savings	%	

Audit		(Bettering the market avera	ge)		
	Germany	2014 to Till Date	0.25%		
	LDPE GP Spot USD/MT	June 2017	2.16%		
* Please contact Engagement manager for forward / long term buying strategies					

Procurement Strategy: Germany LLDPE Butene

Germany LLDPE Butene Procurement Strategy for spot month*						
	Pricing Wind	dow		Already Priced		
	Start	End	Avg Till Date	Weighted Average Price	Quantity	
Open Position					0%	
	01 June 2017	30 July 2017	1417	Yet to be Priced (Remaining	quantity)	
2017 2	2017		1345	100%		
Strategy Review	100% of Jun to market av	•	- •	covered at average of EUR 140	5 compared	
	Market	Period	l	Procurement savings %		
	iviaiket	Period		(Bettering the market ave	erage)	
Closed Positions Audit	Germany	2014 t	o Till Date		0.31%	
Addit	LLDPE Butene Spot USD/MT	t June 2	017		2.38%	
* Diagon and the Fr	<u>'</u>			la		

^{*} Please contact Engagement manager for forward / long term buying strategies

Procurement Strategy: Germany PP Injection

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Germany PP Injection Procurement Strategy for spot month*						
	Pricing Wind	low		Already Priced		
	Start	End	Avg Till Date	Weighted Average Price	Quantity	
Open Position					0%	
		30 June 2017	1298.68	Yet to be Priced (Remaining quantit		
	2017			Price at Current Level	100%	
Strategy Review	100% of June to market av	•	•	overed at average of EUR 130	5 compared	
	Market	Period		Procurement savings	%	
Closed Positions	iviaiket	renoc		(Bettering the market ave	erage)	
Audit	Germany PP	2014 t	o Till Date		0.55%	
	Injection Spot USD/M ⁻	T June 2	017		2.36%	
* Please contact Engagement manager for forward / long term buying strategies						

Procurement Strategy: Germany PET Bottle Grade

Germany PET Bottle Grade Procurement Strategy for spot month*							
Open Position 01	Pricing Window			Already Priced			
	Start	End	Avg Till Date	Weighted Average Price	Quantity		
					0%		
	01 June 30 July 2017 2017	•	1081.50	Yet to be Priced (Remaining	quantity)		
			Price at current level	100%			
Strategy Review		100% of June'17 buying requirements covered at average of EUR 1075 compared to market average of EUR 1075.					

Closed Positions	Market	Period	Procurement savings % (Bettering the market average)
Audit Germany PE ⁻ Bottle Grade	,	2014 to Till Date	NA
	Spot USD/MT	June 2017	0.00%

^{*} Please contact Engagement manager for forward / long term buying strategies

Market Prices

Market	Commodity	30-Jun- 17	16-Jun- 17	Change	% Change
South Korea	Ethylene FOB USD/ton	885	900	-15	-1.67%
South Korea	Propylene FOB USD/ton	820	820	0	0.00%
South Korea	HDPE, Injection USD/ton	1140	1180	-40	-3.39%
Saudi Arabia	HDPE, Injection USD/ton	1070	1110	-40	-3.60%
Germany	HDPE, Injection EUR/ton	1335	1335	0	0.00%
South Korea	LDPE, Injection USD/ton	1365	1395	-30	-2.15%
Qatar	LDPE, Lamination USD/ton	1430	1470	-40	-2.72%
Germany	LDPE, GP EUR/ton	1425	1425	0	0.00%
South Korea	LLDPE, Injection USD/ton	1210	1210	0	0.00%
Saudi Arabia	LLDPE, Injection USD/ton	1200	1200	0	0.00%
Germany	LLDPE, Butene USD/ton	1365	1365	0	0.00%
South Korea	PP, Injection USD/ton	1150	1150	0	0.00%
Saudi Arabia	PP, Injection USD/ton	1090	1090	0	0.00%
Germany	PP, Injection USD/ton	1275	1275	0	0.00%
South Korea	PET, Bottle USD/ton	960	960	0	0.00%

TRANSRISH Exposure – P&L – VaR





Germany PET, Bottle USD/ton 1105 1075 30 2.79%

Our Extensive coverage of Packaging Products				
Report	Coverage #	Price Outlook & Strategies		
Bi-Weekly Paper and Paperboards Market Intelligence	NU, FA, PO, PS, FF, MP, 1M, 2M	North India, West India		
Quarterly Paper and Paperboards special report	FA, BS, PO, FF, MP, 2M, 4M			
Bi-Weekly Indian Polymers price outlook and strategy	NU, FA, TA, PO, PS, FF, MP, 2W, 1M	HDPE, LDPE, LLDPE, PP, PET, India –RIL, Crude Oil, Naphtha, Ethylene, Propylene, PTA, MEG		
Bi-Weekly International Polymers price outlook and strategy	NU, FA, TA, PO, PS, FF, MP, 2W, 1M	Crude Oil, Naphtha, Ethylene, Propylene, PTA, MEG, ASIA (SOUTH KOREA): HDPE, LDPE, LLDPE, PP, PET; MIDDLE EAST (SAUDI ARABIA): HDPE, LDPE, LLDPE, PP; EUROPE (GERMANY): HDPE, LDPE, LLDPE, PP, PET		
Quarterly Polymers special report	FA, BS, PO, FF, MP, 2M, 4M, 6M			
Quarterly Laminates special report	FA, BS, PO, FF, MP, 2M, 4M. 6M			

News Update NU, Fundamental Analysis FA, Balance Sheets BS, Weather Analysis WA, Policy Impact PI, Technical Analysis TA, Trading Strategies TS, Procurement Strategies PS, Price Outlook PO, Market Intelligence MI, Facts & Figures FF, Market Prices MP, Price Spreads PS, Forward Curves FC, Elliott Wave Analysis EWA, 5D, 2W, 6W, 2M, 4-6M

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