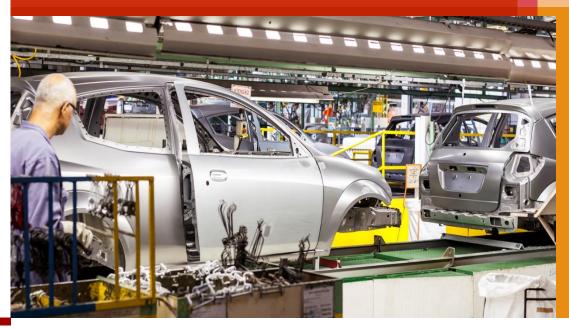
www.pwc.com

Commodity price monitor *May-18*

Prepared for ACMA

Strictly private and confidential

25 June 2018





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Commodity trend dashboard

Commodity trend dashboard Quarter-on-Quarter changes (1/2)-Rolling view

Commodity	Region	Q-o-Q Up	Q-0-Q I	Down
ron & Steel				
Iron Ore	International		-5%	
	Domestic low grade	NA		
	Domestic high grade	NA		
Pig Iron	International	5%		
	Domestic	2%	`	
Stainless steel	Domestic	4%		
	Domestic	4%	•	
Wire rod	International		-1%	
	Domestic	5%		
Steel Billets	International		-0.6%	
	Domestic	9%		
Hot-rolled coils	International	1%		
	Domestic	4%		
Cold-rolled coils	International	1%		
	Domestic	4%	•	
EN8	Domestic	3%		
20MnCr5	Domestic	3%		
erro-alloys				
Ferro titanium	International		-9%	
Ferro chrome	International		-11%	
	Domestic		-5%	▼
Ferro molybdenum	International		-1%	▼
Ferro vanadium	International	13%		
Ferro silicon	International		-14%	
	Domestic		-3%	•

Calendar Year 18-19: Q vs. Q update

ND: Not disclosed by the source

Commodity trend dashboard Quarter-on-Quarter changes (2/2)- Rolling view

Commodity	Region	Q-0-	Q-o-Q Down		
Base Metals					
Aluminum	International	5%			
	Domestic	9%			
Copper	International			-2%	▼
	Domestic	1%			
Zinc	International			-9%	▼
	Domestic			-5%	▼
Nickel	International	7%			
	Domestic	10%			
Tin	International			-0.5%	▼
	Domestic	3%			
Magnesium	International			-5%	▼
Precious Metals					
Platinum	International			-6%	▼
Palladium	International			-6%	▼
Rhodium	International	15%			
Polymers					
Low density polyethylene	International			-1%	▼
	Domestic			-3%	▼
Polypropylene (PP)	International			0%	
	Domestic	3%			
Rubber	Domestic			-3%	▼
Currency Exchange					
Dollar	International	3%			
Pound	International	1%			
Euro	International	2%			
Yen	International	2%			

Calendar Year 18-19: Q vs. Q update

Iron & Steel

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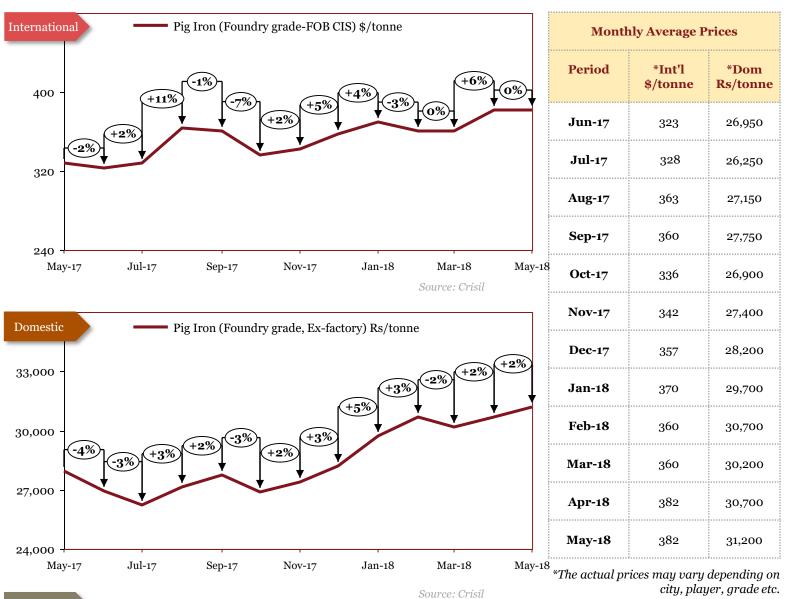
Iron Ore

nternational Iron Ore (64% Fe, Qingdao Port) \$/tonne	Monthly Average Prices			
	Period	*Int'l		om onne
100 -		\$/tonne	65% & below	65% & above
	Jun-17	64	1,158	2,713
	Jul-17	70	1,586	2,585
	Aug-17	76	1,525	2,676
60 May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-	₁₈ Sep-17	76	1,799	2,765
Source: Crisil	Oct-17	64	1,697	2,426
Domestic 58% to below 60%, 60% to below 62%, 62% to below 65% Fe Fines	Nov-17	62	1,812	2,585
65% and above Fe Fines	Dec-17	66	1,646	2,512
3,000 $+5%$ $+4%$ $+3%$ $+7%$ $-12%$ $-0%$ Prices not released	Jan-18	74	1,953	2,507
by the source yet	Feb-18	74	2,099	3,216
2,000 - +37% - 4% + 18% + 7% + 9% + 7% + 9%	Mar-18	74	2,012	2,919
	Apr-18	70	-	-
1,000	May-18	70	-	-

Outlook

The iron ore prices continued to increase in August owing to increased imports of iron ore by China. In September, the international prices of iron ore remained stable. In October, the ore prices decreased in the international market due to slack in demand. In November, the international prices decreased due to slack in demand from the consuming industries. In December, the international iron ore prices increased due to supply shortage from China caused by Chinese government restrictions. Additionally, strong steel prices aided the ore price hike. In January 2018, international ore prices followed similar tends as it did last month. However, the prices are expected to slow down as the market stabilizes. In Feb 2018, the international ore prices remained constant. In March, the international prices remained stable as the supply and demand balanced. In April, the international prices decreased owing to the closure of steel mills in China due to environmental sanctions. In May, prices in the international market remained unchanged due to slated capacity cuts by Chinese steel producers owing to government regulation.

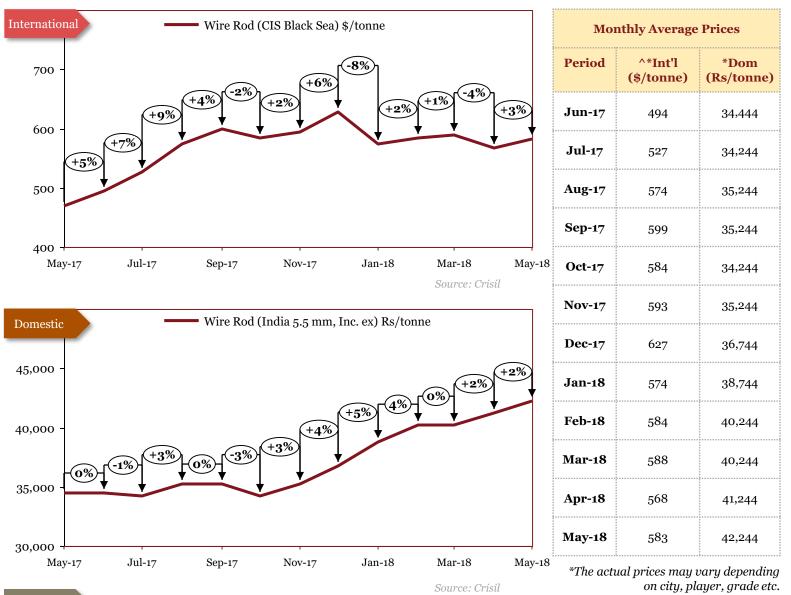
Pig Iron



Outlook

In October, the domestic and international prices decreased owing to the fall in prices of coking coal. In the month of Nov, the international and domestic prices have increased owing to the rise in the raw material prices. In December, the increase in the international and domestic prices could be attributed to the rise in raw materials costs. Furthermore, the rising steel prices are aiding the price hike. In January 2018, the international prices increased due to rise in the iron ore and scrap prices, coupled with increase in demand from North America. The domestic prices followed the international prices. In Feb 2018, the international prices decreased as the raw material prices stabilised. In the domestic market, the supply crunch and increasing billet prices fuelled the pig iron domestic prices. In March, the international prices remained flat owing to the continued decrease in the raw material prices. In the domestic market the prices declined as the supply of raw materials stabilised. In April, the international prices increased owing to the increased owing to the increased on back of the rising domestic steel prices. In May, the international prices increased initially due to increase at a steady pace.

Wire Rod

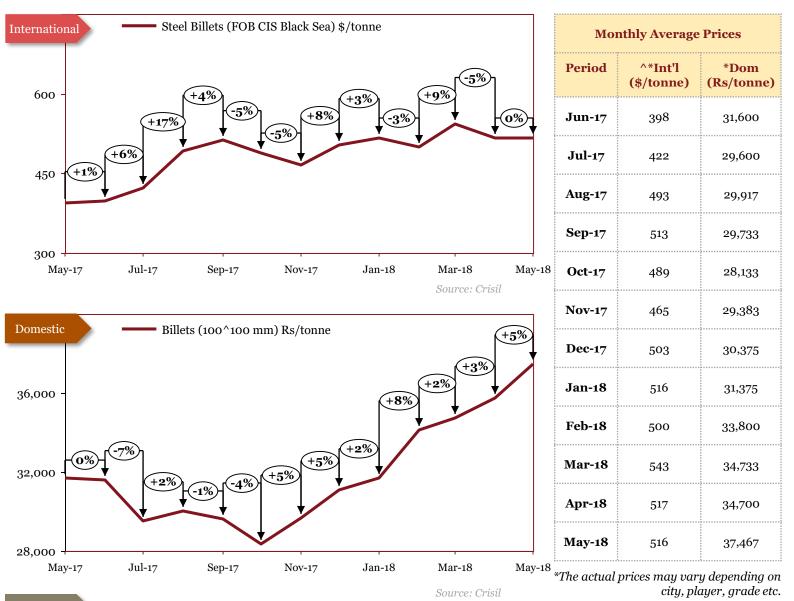


Outlook

In September, the international prices increased owing to the steady increase in demand for the long steel. The domestic prices remained stable. In October, the international prices decreased owing to the muted demand. In domestic market, the decrease in the export demand triggered selling at lower prices to reduce the inventory. In November, the international prices decreased owing to the slack in demand. However, the domestic prices increased due to increase in local demand. In December, the international and domestic prices increased owing to the rise in raw material costs. Furthermore, Chinese winter production cuts seemingly aided in the price hike. In January 2018, the international and domestic prices increased due to hike in the raw material prices. In Feb 2018, the international and domestic prices and robust demand. In March, the international prices increased on back of the high raw material prices and robust demand. In domestic market, the prices remained flat due to downward pressure from the lower demand. In Mary, international prices increased owing to the slower demand. Domestic prices increased owing to the improved demand. In May, international prices increased due to improved demand. Domestic prices increased due to demand outpacing supply.

^Prices have been retrospectively revised by the source due to change in base year

Steel Billets



Outlook

In August and September, the domestic billet prices have fluctuated marginally. In October, the domestic price decreased owing to the muted demand. In November, the billet prices in Latin America decreased due to slack in export and local Latin American market demand. However, in the domestic market, lower supply lead to increased prices. In December, the domestic prices increased owing to the reduced supply in the domestic market. In January 2018, the international and domestic prices increased due to hike in the raw material prices. In domestic market, the increase in billet price also reflected the increase in the ore prices by NMDC. In Feb 2018, the international prices remained constant owing to the balanced market conditions. However, in the domestic market prices increased due to increase in the raw material prices. In March, International prices remained flat owing to the limited demand. However, the domestic prices increased due to robust demand. In April, the international and domestic prices remained flat owing to the limited activity in the market. In May, the rate of price increase in international markets fell due to decrease in scrap prices and market activity. Domestic prices increased owing to a pick-up in demand coupled with limited inventories.

^International prices changed due to change in the grade

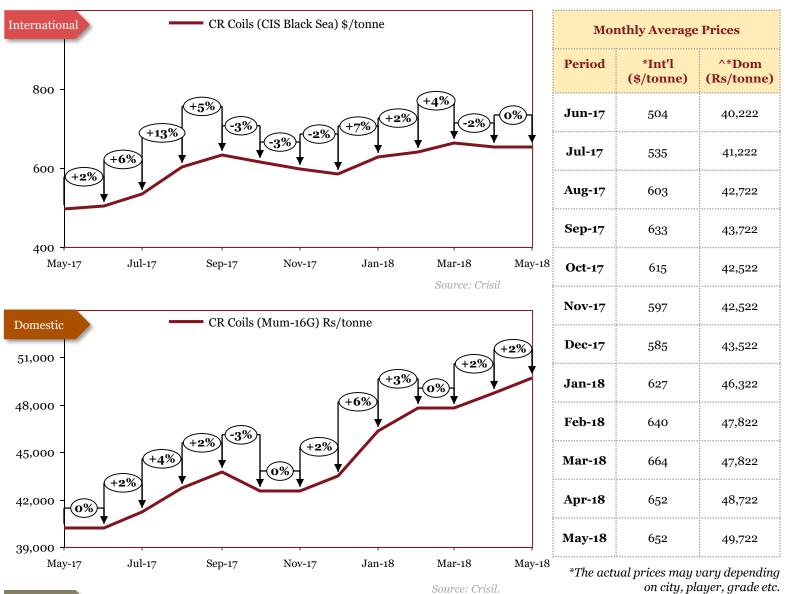
Hot-Rolled (HR) Coils

International HR Coils (CIS Black Sea) \$/tonne		Моі	nthly Average	Prices
600 - +21% +3% (-4%) -9% +5% +2%	+5%	Period	*Int'l (\$/tonne)	^*Dom (Rs/tonne)
		Jun-17	442	36,000
		Jul-17	458	37,000
450		Aug-17	554	38,500
		Sep-17	597	39,500
300	Mar-18 May-18 Source: Crisil	Oct-17	576	38,000
	Source: Crisii	Nov-17	544	38,000
Domestic HR Coils (India 14G-2mm) Rs/tonne	(+1%)	Dec-17	555	39,500
45,000 -		Jan-18	581	42,300
		Feb-18	592	43,800
40,000 - +4% +3% +4%		Mar-18	624	43,800
		Apr-18	608	44,700
35,000		May-18	602	45,200
May-17 Jul-17 Sep-17 Nov-17 Jan-18	Mar-18 May-18 [.] Source: Crisil	*The acti		vary depending ayer, grade etc.

Outlook

In December, increased demand and increased raw material costs aided the increase of international and domestic prices of HR coils. In January 2018, the international prices increased due to improved market sentiment and increase in the ore prices. However, the increase was limited by the declining prices of coke. Domestic prices increased as steel makers hiked prices to reflect the increase in the ore prices by NMDC. In Feb 2018, the international prices increased owing to the elevated coking coal prices. In the domestic market, the prices increased due to supply crunch caused by the temporary shutdown at Tata Steel Kalinganagar plant due to technical issues and multiple other plants due to maintenance activities. In March, the international prices increased owing to the increased demand. In the domestic market, the prices decreased owing to the muted demand. However, the domestic prices increased due to imbalance of supply-demand and lower inventories. In May, international prices declined due to muted demand. Domestic prices increased due to lower inventories, increase in demand and higher raw material prices.

Cold-Rolled (CR) Coils



Outlook

The CR coils international and domestic prices are mostly reflective of the trends in the HRC prices. After a relatively stable phase, the international prices started to come down due to slowdown and policy uncertainty in the Chinese market. The trends follow that of the HR Coils. In August, CR coils prices increased following the increase in the prices of the HR coils. In September and October CR coils prices followed the same trend as that of the HR coils. In November, the CR prices followed similar trends as HR prices. In December, the CR coil prices followed the HR coil prices. In January 2018, the CR prices followed similar trends as that of HR prices. In Feb 2018, the CR coils prices followed the HR coils price trends in domestic as well as international market. In March 2018, the CR coils prices followed the HR coils price trends in domestic as well as in the international market. In April, the CR coils followed the HR coils trends. In May, international CR prices remained flat due to tepid demand. Domestic prices increased due to rise in demand owing to lower inventories.

Ferro-alloys	, Ferro-a	lloys	15
1 cm 0 uttogs	7	Ferro titanium	16
	8	Ferro chrome	17
	9	Ferro molybdenum	18
	10	Ferro vanadium	19
	11	Ferro silicon	20
	12	EN8 Alloy Steel (Forging)	21
	13	Stainless Steel	22
	14	20MnCr5 Alloy Steel (Forging)	23

International Ferrotitanium (Europe-70% In Warehouse Rotterdam) \$/kg **Monthly Average Prices** Period ^*Int'l (\$/kg) 6 Jun-17 4.54 .89 0% Jul-17 4.19 5 2% .89 0% Aug-17 4.12 +5% **0**% 2 Sep-17 4.10 4 May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18 **Oct-17** 4.29 Grade specifications changed from Metal Bulletin to Asian Metals Source: Bloomberg Nov-17 4.40 Domestic Dec-17 4.76 Jan-18 4.93 Feb-18 4.98 Relevant domestic price data not available Mar-18 4.98 Apr-18 4.59

*The actual prices may vary depending on city, player, grade etc.

4.50

Outlook

Ferro titanium prices increased in August owing to the increase in the demand. In September, the prices increased following the last month's trends. In October, the prices increased owing to the increased demand. In November and December, the prices increased as due to limited production by sellers owing to the contractual agreements restricting them to address the spot market demand. In January 2018, the prices increased owing to the steady increase in demand. In Feb 2018, the prices remained steady due to balanced market conditions. The traders are awaiting tenders from the global steel mills for deciding the price direction. In March, the prices in Europe increased on the back of the increasing demand. In April and May, prices in the global market declined due to lower demand.

^International prices changed due to change in grades at the source

May-18

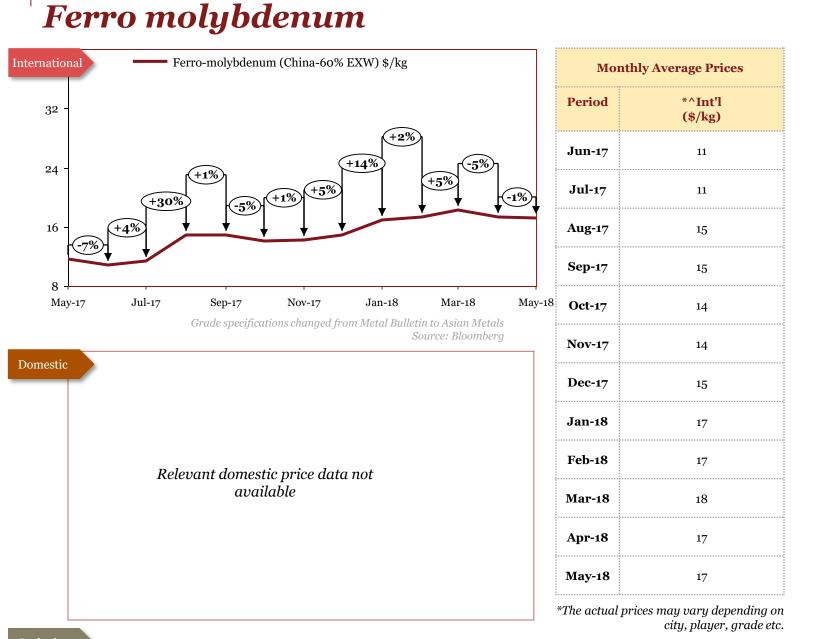
Ferro titanium

Ferro chrome

International	Ferro Chrome (FOB Hong Kong, Cr 50%) \$/tonne	Mo	nthly Average	Prices
2,000 -		Period	*Int'l (\$/tonne)	*Dom (Rs/tonne)
1,600 -	+9% $+9%$ $-6%$ (10%)	Jun-17	1,079	65,000
-11%	+11% $+2%$ $-7%$ $+4%$ $+5%$ $0%$ $-6%$ $-6%$	Jul-17	1,198	64,000
1,200		Aug-17	1,301	69,000
		Sep-17	1,412	81,000
800 May-17	Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18	Oct-17	1,327	78,500
	Source: Crisil	Nov-17	1,233	71,000
Domestic	Ferro Chrome (Cr:60%, Ex Fac) Rs/tonne	Dec-17	1,224	70,000
125,000 -		Jan-18	1,275	74,500
100,000 -		Feb-18	1,335	81,500
-20%	+17% $+10%$ $+6%$ $+9%$ $0%$ $-3%$ $-3%$	Mar-18	1,335	81,500
75,000 -		Apr-18	1,207	76,500
50,000		May-18	1,130	74,500
May-17	Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18 Source: Crisil	*The act		vary depending layer, grade etc.

Outlook

In September, the international prices increased owing to the moderately increased demand from China. The domestic prices increased following the international trends coupled with increase in the domestic stainless steel demand. The decrease in the international and domestic prices. In October, the prices decreased owing to the decrease in the demand. In November, the international prices decreased owing to the increased supply of local ferro chrome in China. The domestic market seems to follow the suit. In December, the international prices decreased due to increase in demand from China's stainless steel industry. The domestic market followed the international market. In Feb 2018, the international prices increase in demand. Domestic market followed suit. In March, the rate of increase in the prices slowed down as Chinese ferro chrome prices decreased ahead of expected low tenders. Domestic market followed suit. In April the international prices decreased owing to the deteriorating Chinese stainless steel market which caused lowering of demand. Similar trends were observed in the domestic market. In May, international and domestic markets experienced price decrease owing to the decreased demand.



Outlook

In July, the steadily decreasing prices of Molybdic oxide are supposedly keeping downward pressure on the alloy prices. Prices increased in August owing to the increased demand from the Asian markets. In September, the prices continued to increase owing to the increasing demand from the Asian markets. In October, the prices decreased due to subdued demand. In December, the prices increased due to tight supply, restocking and increased costs of raw materials. In January 2018, the prices continued to increase on back of the rising demand. In Feb 2018, the prices increased due to continued demand. The prices in March increased as the demand increased. In May, production from Chinese ferro molybdenum producers and global copper producers (molybdenum is produced as a by-product of copper production) acted as a cap for ferro molybdenum prices by enabling stable supply.

^International prices changed due to change in grades at the source

tional	Fer	rro Vanadium (C	hina-80% FOB) \$/kg	(+7%)		Monthly	y Average Prices
0 -				(+11%	+9%	-6%)	Period	*Int'l (\$/kg)
0 -	(+639		(+28%			Jun-17	28
		-21%	+11%				Jul-17	31
0 -	+9%						Aug-17	50
							Sep-17	47
May-17	Jul-17	Sep-17 Grade specifica	Nov-17 ations changed fr	Jan-18 om Metal Bulles	Mar-18 tin to Asian Metals	May-18	Oct-17	37
				S	Source: Bloomberg		Nov-17	37
tic							Dec-17	41
							Jan-18	53
		Relevant domestic price data not				Feb-18	59	
			available				Mar-18	64
							Apr-18	68
							May-18	64

on city, player, grade etc.

The ferro vanadium prices have been fluctuating (within 5% range) since the beginning of this year. This may be attributed to the fluctuations of supply and demand in the international market. The European traders are benefiting from higher spot prices in Asian countries as Europe remains a slump in the current period. In October, the prices reduced owing to the slack in overall demand and increased supply from China. In November and December, the prices increased due to limited supply and steady demand. In January 2018, the prices continued to increase due to restricted supply from China. Increase in local demand in China for ferro vanadium has restricted the supplies globally. Moreover, the rising prices of Vanadium has also put an upward pressure on the ferro vanadium prices. In Feb 2018, the prices continued to increase due to supply tightness in Europe, US and China. In March, the prices increased owing to the rising supply constraints. In April, the prices increased owing to the increased demand.

Outlook

Ferro vanadium

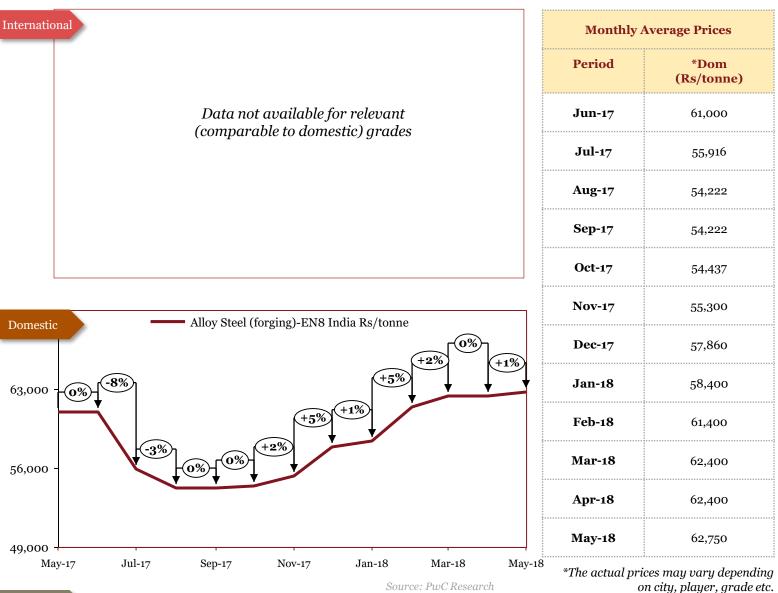
Ferro silicon

International	Fer	rro silicon (Si 7	5%, FOB China)\$/tonne			Mo	nthly Average	Prices
2,400 -				-12%			Period	*Int'l (\$/tonne)	*Dom (Rs/tonne)
2,400	ſ	+5%	+7%		(-6%)	+4%)	Jun-17	1,159	70,000
1,600 - +	+21%	-17%		F(-7%)-	-9%	· · · ·	Jul-17	1,256	70,000
1,000					Ţ		Aug-17	1,525	73,000
200							Sep-17	1,601	83,000
800 May-17	Jul-17	Sep-17	Nov-17	Jan-18	Mar-18 Source: Crisil	May-18	Oct-17	1,332	82,700
Domestic	T						Nov-17	1,428	81,700
	I	Ferro silicon (S	1 70%, India Ex	-Fac) Ks/tonn	2		Dec-17	2,022	100,700
150,000 -			,				Jan-18	1,773	105,700
			+23%	+5%	-3% +1%	-2%)	Feb-18	1,649	102,200
100,000 -	(+4%)	+14%	-1%				Mar-18	1,546	99,200
	», ···						Apr-18	1,401	99,700
50,000		Sop 17	Nov 17	Jop 19	Mon 19	Mov 19	May-18	1,456	98,200
May-17	Jul-17	Sep-17	Nov-17	Jan-18	Mar-18 Source: Crisil	May-18			ry depending or ayer, grade etc

Outlook

In December, the international prices increased sharply due to increase in demand coupled with production cuts in China and supply restraints from Malaysia. Domestic prices followed international prices, aided by the rising domestic steel prices. In January 2018, the international prices declined due to lunar new year holidays in China, during which the Chinese ferro silicon prices decrease cyclically. Domestic prices increased due to high local demand and increase in the exports due to rise in demand from European markets. In Feb 2018, the international ferro silicon prices decreased due to muted demand. Domestic market followed the suit. In March, the international prices decreased due to excess supply and a negative outlook due to weakness in Chinese steel sector. The domestic prices followed suit as producers lowered the prices to remain competitive. In April, the international prices rose due to decreased production owing to pollution control restrictions in China. Domestic prices fell due to decrease in demand.

EN8 Alloy Steel (Forging)



Outlook

Due to demonetization and GST implementation, the demand has mostly remained flat over the last year and ongoing current year. However, Government's focus on improving manufacturing scenario in the country is expected to fuel the long term growth in demand of the forging steel. The influx of global manufacturers is also expected to boost the demand. Thus, the long term prospects seems promising for the forging industry as a whole. In November, increase in the domestic iron ore prices has resulted in the increase of alloy steel prices. In December, the price hike can be attributed to the rising cost of raw materials. In January and Feb, the prices continued to increase due to increase in the raw material prices. In March, the domestic prices increased due to increased demand. In April, prices remained constant due to stable market conditions and increased in May along with other steel products.

Stainless Steel International **Monthly Domestic Average Prices** Data not available for relevant (comparable to domestic) grades *G304 HR Period *G304 CR (Rs/tonne) (Rs/tonne) Domestic G304 HR Coil Jun-17 134,400 144,950 Jul-17 130,900 141,450 180,000 +2% +3' -3% +3% Aug-17 134,400 144,950 Sep-17 144,400 154,950 120,000 **Oct-17** 140,750 149,950 60,000 Nov-17 129,400 139,950 May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18 Dec-17 127,400 137,950 Domestic G304 CR Coil Jan-18 131,200 141,750 180,000 ·6% Feb-18 135,200 145,750 Mar-18 145,200 156,750 120,000 Apr-18 141,200 152,750 May-18 144,700 156,250 60,000 May-17 Jun-17 Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18 May-18 *The actual prices may vary depending

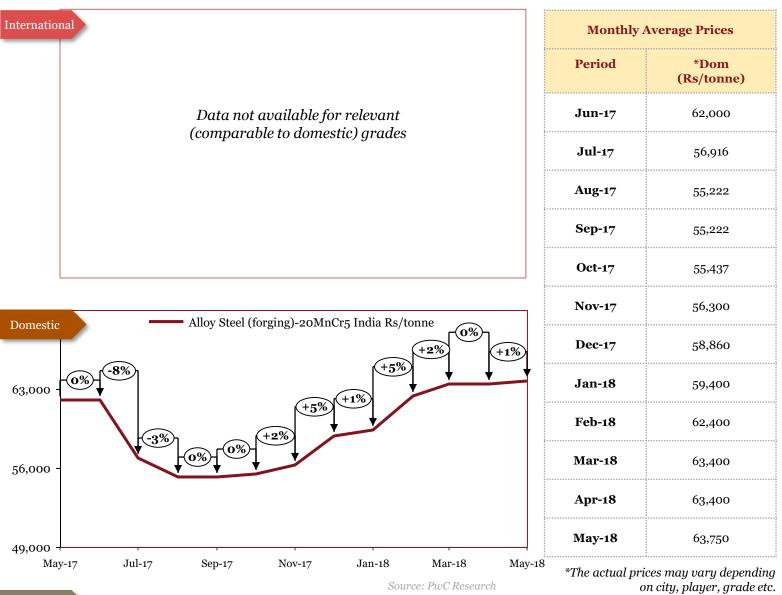
Outlook

Last year, 'Stainless Steel Products QC Order' has made it mandatory for the manufacturers to register with BIS, otherwise they are prohibited to import, store or distribute the SS products. Since, >60% of the SS products used in the country do not conform to BIS, this order seemingly created an air of uncertainty in the market, which seems to continue this year as well. In September, the rise in the prices could seemingly be caused by the increasing prices of nickel and other base metals. In October, the international prices decreased owing to the decrease in demand from China. In November, the domestic prices followed the suit of international prices, which decreased owing to the reduced demand in China. In December, the domestic prices decreased due to low export demand, caused by stable supply from China. In January 2018, the domestic prices increased owing to the increase in the zinc prices. In Feb 2018, the increase in the domestic prices continued on the back of the rising input material prices. In March, the prices continued to increase on the back of the rising demand. In April, the domestic prices decreased owing to the reduced demand and continued higher supply. In May, declining trend was reversed as prices increased.

Source: PwC Research

on city, player, grade etc.

20MnCr5 Alloy Steel (Forging)



Outlook

Due to demonetization and GST implementation, the demand has mostly remained flat over the last year and ongoing current year. However, Government's focus on improving manufacturing scenario in the country is expected to fuel the long term growth in demand of the forging steel. The influx of global manufacturers is also expected to boost the demand. Thus, the long term prospects seems promising for the forging industry as a whole. In November, increase in the domestic iron ore prices has resulted in the increase of alloy steel prices. In December, the price hike can be attributed to the rising cost of raw materials. In January and Feb, the prices continued to increase due to increase in the raw material prices. In March, the domestic prices increased due increased demand. In April, prices remained constant due to stable market conditions and increased in May along with other steel products.

Base Metals

Base Me	tals	24
15	Aluminium	25
16	Copper	26
17	Zinc	27
18	Nickel	28
19	Tin	29
20	Magnesium	30

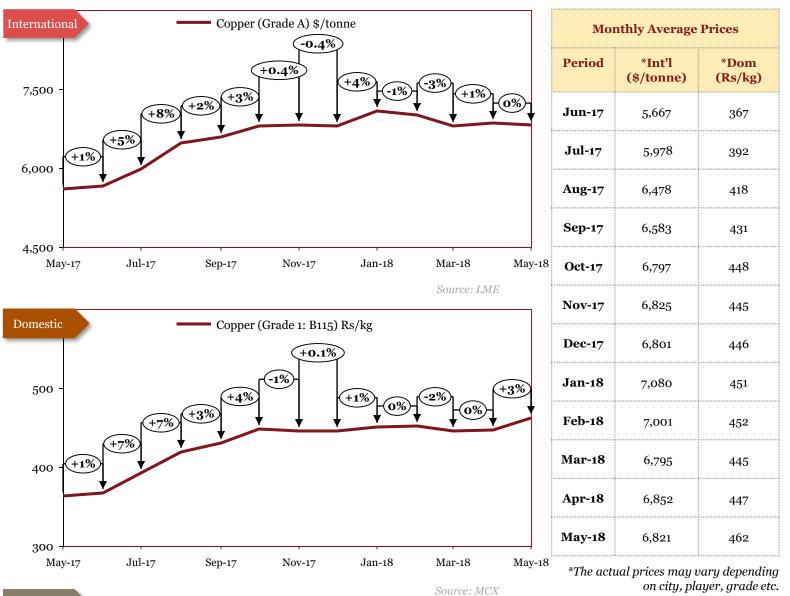
Aluminium

International Aluminium (Al99.70) \$/tonne	N	onthly Average	Prices
2,400 -	+8% +2% Period	*Int'l (\$/tonne)	*Dom (Rs/kg)
	Jun-17	1,898	122
	Jul-17	1,903	123
1,800 -	Aug-17	2,030	129
	Sep-17	2,100	135
1,500	· 0001/	2,130	139
	ce: LME Nov-17	1,845	136
Domestic Aluminium (min 99.7%) Rs/kg	+5% Dec-17	2,070	133
	+9%) Jan-18	2,214	141
150 - 150	Feb-18	2,185	141
	Mar-18	2,076	135
130	Apr-18	2,242	147
	May-18	2,290	155
May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-1 Source:	*The c	ctual prices may u on city, plo	vary depending ayer, grade etc

Outlook

In November, the LME prices fell over the uncertainty in demand from China owing to the stringent environmental policy of the Government. This has in-turn triggered heavy dumping by the sellers leading to the decrease in prices. The domestic prices have declined comparatively less owing to the sustained local demand. In December, the international prices increased due to the supply disruption in China owing to the environmental protection policies. However, in the domestic market, the excess supply caused reduction in the prices. In January 2018, the supply restraint owing to the Chinese capacity cuts and increase in demand from the European and North American markets pushed the prices of aluminium in the global market. Domestic market followed the suit. In Feb 2018, the international and domestic prices remained steady compared to last month due to balanced supply-demand conditions in the market. In March, the international prices decreased owing to the strengthening of the dollar and simmering trade concerns between US and China. Domestic market followed suit. In April, the prices increased owing to the Rusal sanctions by the US treasury. The domestic prices followed suit. In May, the rate of increase in prices declined due to proposed ease in Rusal sanctions by the US treasury. Domestic prices followed suit.

Copper



Outlook

In November, the international prices remained stable due to continued demand from China, however, the domestic prices decreased due to decreased demand. In December, the international prices and the domestic prices didn't variate much as the supply and demand seemingly remained balanced. In January 2018, the international prices increased owing to the speculation of supply disruptions as 20% of the copper mines are due for wage re-negotiations this year. Domestic prices remained unperturbed from the international sentiments. In Feb 2018, the international and domestic prices remained steady compared to last month as the supply and demand in the market remained stable. In March, the international prices decreased owing to the strengthening of the dollar and simmering trade concerns between US and China. Domestic market followed suit. In April, the domestic and international prices remained flat due to limited movement in the market. In May, international prices remained flat due to stable supply and demand, however, the domestic prices increased due to a supply crunch caused by the shut down of Vedanta plant in Tamilnadu.

Zinc

International	-	Zinc (mi	n 99.995%) \$/	'tonne			Mo	nthly Average	Prices
4,000 -				\frown	n -7% h		Period	*Int'l (\$/tonne)	*Dom (Rs/kg)
4,000		+5% +5%	- <u>-1%</u> - <u>-1%</u> -	+8% (+3%)	(-3%)	1987	Jun-17	2,478	160
	+12%						Jul-17	2,785	179
3,000	+						Aug-17	2,981	190
	-						Sep-17	3,119	201
2,000 May-17	Jul-17	Sep-17	Nov-17	Jan-18	Mar-18	May-18	Oct-17	3,274	214
					Source: LME		Nov-17	3,236	210
Domestic	-	NCDEX 2	Zinc (min 99.9	95%) Rs/kg			Dec-17	3,192	205
300 -							Jan-18	3,447	219
	+6%	+6%	(-2%)	+7% +4%		2%)	Feb-18	3,539	228
200 - (-4%)	+12%			*		_	Mar-18	3,280	213
							Apr-18	3,183	210
100							May-18	3,057	206
May-17	Jul-17	Sep-17	Nov-17	Jan-18	Mar-18 Source: NCDEX	May-18	*The act	ual prices may ı on city, plo	vary dependir 1yer, grade et

Outlook

The zinc prices in July rallied on the back of the rising demand; the recovery of steel sectors in US and China aided the increase in the demand for zinc. The international zinc prices have increased owing to the higher steel demands due to Chinese infrastructure development. The domestic market followed suit. In September and October, the international and domestic prices continued to increase due to steady demand from the consuming industries. In November, the international and domestic zinc prices fell owing to the lower demand from the consuming industries. In January 2018, prices increased owing to the increased demand in the international and domestic markets. In Feb 2018, the international and domestic zinc prices increased due to increased demand. In March, the international prices decreased owing to the strengthening of the dollar and simmering trade concerns between US and China. Domestic market followed suit. In April, the international and domestic zinc prices decreased owing to the decrease in the demand. In May, international prices fell due to increase fell due to similar increase in output.

Nickel

International Nickel (min 99.80%) \$/tonne	Mo	nthly Average	Prices
15,000 - (+3%) + (-3%) + (-3%) + (-3%) + (-3%) + (-3%) + (-3%) + (-3%) + (-3	Period	*Int'l (\$/tonne)	*Dom (Rs/kg)
+12,000	Jun-17	8,814	567
+8%	Jul-17	9,479	610
9,000 -	Aug-17	10,844	692
6.000	Sep-17	11,230	725
6,000	¹⁸ Oct-17	11,320	735
Domestic Nickel (4"*4" cut Nickel min 99.80%) Rs/kg	Nov-17	11,990	779
	Dec-17	11,406	730
	Jan-18	12,876	816
800 - +13% +1% +6% 0.0	Feb-18	13,573	875
-4%	Mar-18	13,400	873
600 -	Apr-18	13,965	915
400	May-18	14,352	970
May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May- Source: NCDEX	18 *The act	ual prices may ı on city, pla	vary depending ayer, grade etc

Outlook

In July, strong demand from the alloy makers seemingly increased the nickel demand. Nickel prices continued to rise in August owing to the strong demand from the end industries. The rise of electrical vehicle market affected the demand for nickel for advanced batteries. In September and October, the prices increased owing to the continued demand from the consuming industries. In November, the nickel prices increased due to increasing demand from the consuming industries in the domestic and international market alike. In January 2018, the international prices increased due to supply constraints caused by halting of operations at Madagascar's Ambatovy nickel mine, one of the largest nickel producing mines globally, due to damage caused by a cyclone. Domestic prices followed suit. In Feb 2018, the international prices increased owing to the weaker dollar. Domestic prices followed suit. In March, the geopolitical instability put a downward pressure on the nickel prices, however, the increasing demand offset the expected decline in the prices. In April, the international prices increased owing to fear of Rusal sanctions being extended to the Nornickel, company linked with Rusal. Domestic prices followed suit. In May, nickel prices increased due to lower inventories, stronger demand and a weaker dollar.

Tin

International — Tin (min 99.85%) \$/tonne		Мо	nthly Average	Prices
22,500 -	(-2%)	Period	*Int'l (\$/tonne)	*Dom (Rs/kg)
21,000 - +3% +1% -2% -4% +7%		Jun-17	19,667	1,270
		Jul-17	20,261	1,306
19,500 -		Aug-17	20,560	1,316
19 000		Sep-17	20,843	1,342
18,000 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18	May-18	Oct-17	20,459	1,326
Source: Li	ME	Nov-17	19,567	1,269
Domestic MCX Tin (min 99.85%) Rs/kg	+1%	Dec-17	19,432	1,248
1,400 -		Jan-18	20,703	1,313
(+3%) $(+1%)$ $(-4%)$ $(-4%)$ $(+5%)$		Feb-18	21,681	1,395
1,300		Mar-18	21,203	1379
		Apr-18	21,293	1,400
1,200		May-18	20,888	1,410
May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 Source: Mar-18	May-18	*The acti	ual prices may v on city, pla	ary depending wer, grade etc.

Outlook

Tin prices increased in July owing to the increased demand from the alloy industry; furthermore, the new Chinese policy affecting Chinese tin producers by VAT restructuring fuelled the increase in prices. Tin did not see any significant movement in August. Tin prices increased marginally in September. In October, the domestic and international Tin prices decreased owing to the decrease in demand. In November, the international and domestic prices continued to decrease following slow demand. In December, the international and domestic prices continued to follow the same trend as that in the last month. In January 2018, the prices increased due to increased demand. In Feb 2018, the LME tin prices increased riding on weaker dollar and continued demand. Domestic market followed suit. In the month of March, the LME tin prices declined due to strengthening dollar. Domestic market followed suit. In May, tin prices declined due to higher inventories owing to rising Indonesian exports and order cancellations by buyers. Domestic prices rose due to higher industrial demand.

Magnesium

nternational	— Magnesium (China Shanghai Changjiang Spot Price) \$ /tonne	Monthly Av	erage Prices
2,800 -		Period	*Int'l (\$/tonne)
_,	+14% +7% 0% +5%	Jun-17	2,251
	(+1%)	Jul-17	2,269
2,400	Prices not released by the	Aug-17	2,598
	source yet	Sep-17	2,604
2,000 May-17	Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May Grade specifications changed from Metal Bulletin to Asian Metals	-18 Oct-17	2,347
	Grade specylcations changed from Metal Butterin to Astan Metals Source: Bloomberg	Nov-17	2,343
Domestic		Dec-17	2,506
		Jan-18	2,509
	Relevant domestic price data not	Feb-18	2,622
	available	Mar-18	2,556
		Apr-18	2,440
		May-18	-
		*The actual price	s may vary dependi

on city, player, grade etc.

Outlook

China accounts for ~80% of the global magnesium production, thus the global prices are significantly affected by movement in the Chinese economy. The global consumers vary to use magnesium as a long term substitute due to Chinese export quotas and duties. However, the recent explorations of this metal in North America might reduce the dependence on the Chinese supply and make the industrial use of magnesium more streamlined. Prices remained more or less stable in July. The prices increased drastically in August owing to the reduced supply from China. In September, the prices decreased owing to the increased supply from Chinese refineries. In December, the prices increased owing to the higher raw material costs. In January 2018, the market remained stable resulting in no fluctuations in prices. In Feb 2018, prices increased due to supply deficits and continued demand. In March, the prices declined due to decrease in the raw material prices. In April, the prices decreased owing to the slack in demand.

^International prices changed due to change in grades at the source

Precious Metals

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Precious Metals

International Platinum International Price \$/tonne	Monthly	Average	e Prices (8	\$/Oz)
	Period	Pt	Pd	Rh
	Jun-17	942	865	963
800	Jul-17	922	862	1,025
May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18	Aug-17	976	917	1,049
International Palladium International Price \$/tonne	Sep-17	974	943	1,159
	Oct-17	926	961	1,391
800	Nov-17	938	1,005	1,445
600	Dec-17	912	1,030	1,597
	Jan-18	991	1,101	1,706
International Rhodium International Price \$/tonne 3,000 - (+4%)	Feb-18	995	1,027	1,847
2,000 - +6% +2% +11% +4% +4% ++11% ++7% ++7% ++7% ++7% ++7% ++7% ++	Mar-18	960	993	1,923
	Apr-18	929	975	2,071
0 May-17 Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18	May-18	909	984	2,133
Source: Johnson Matthey	*The actua		ay vary d y, player, g	

Outlook

In December, the platinum prices continued to decrease owing to the decrease in the diesel cars globally. In case of palladium, the substantial supply deficit and increase in the Chinese auto-catalyst demand fuelled the price rise. In January 2018, platinum prices rose because of the supply constraint caused by halting of operations by several mines in South Africa. Palladium prices continued to rise riding on the back of a higher preference to gasoline fuelled vehicles in Europe and China. In Feb 2018, the platinum prices remained steady as the slackened demand and the restrained supply balanced each other. The palladium prices fell due to weaker dollar and slack in demand owing to the Chinese new year holidays. In March, the prices of platinum decreased as the market is in surplus supply owing to the stable demand and more recovery from the secondary sources. Palladium prices decreased seemingly due to continued uncertain climate on the back drop of US's announcement of tariffs on the steel and aluminium imports. In April, the prices continued to decrease owing to the slack in demand. In May, platinum prices continued to fall due to lower demand. Continued decline in palladium prices was stemmed and rhodium continued to rise due to strong industrial demand.

Polymers & Rubber

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Low density polyethylene (LDPE)

International	LDPE (C&F Far East Asia) \$/tonne	Mo	nthly Average	e Prices
1,400 -		Period	*Int'l (\$/tonne)	*Dom (Rs/tonne)
1 000 -	(+4%) $(+1%)$ $(-4%)$ $(+2%)$ $(-2%)$	Jun-17	1,186	108,360
1,300 -	(-2%) $(+3%)$ $(+3%)$ $(+2%)$ $(-1%$	Jul-17	1,168	106,360
1,200 -		Aug-17	1,203	104,360
		Sep-17	1,256	102,360
1,100 May-17	Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18 Source: Crisil	Oct-17	1,273	102,360
	LDPE (RIL 16MA400 Ex-Mumbai) Rs/tonne	Nov-17	1,263	100,860
Domestic	LDI E (KIL IOMA400 Ex-Mullibal) KS/tollie	Dec-17	1,214	95,360
120,000 -		Jan-18	1,215	95,360
105,000 -		Feb-18	1,245	89,190
		Mar-18	1,220	89,190
90,000 -		Apr-18	1,210	89,190
75,000		May-18	1,214	92,319
May-17	Jul-17 Sep-17 Nov-17 Jan-18 Mar-18 May-18 ^{**} Source: Reliance Industries Ltd.	*The acti		vary depending ayer, grade etc.

Outlook

In September, the international prices increased owing to the increasing feed stock prices. Global prices did not seem to affect the domestic market. In October, the international prices seemed to follow similar trends as in September. In the domestic market, the prices seemingly remained unaffected by the international price trends. In November, the domestic prices decreased due to slack in demand. In December, the domestic prices reduced due to weakening demand. Additionally, RIL introduced regional discounts causing a price dip. In January 2018, the international and domestic prices remained stable as there was no significant movement in the market. In Feb 2018, the LDPE international prices increased due to increased demand and constrained supply caused by the maintenance shutdowns in several plants globally. In the domestic market, the prices decreased owing to the decrease in the ethylene feed stock prices. In March, the international prices decreased due to ample inventories. The domestic market remained stable. In April, the international prices decreased due to ample supply. In the domestic market, the prices remained flat for most of the month, however, the prices increased towards the end of the month. In May, international prices remained stable.

Polypropylene (PP)

International International Price (PPHP) \$/tonne		Мог	nthly Average	Prices
1,300 - +4%		Period	*Int'l (\$/tonne)	*Dom (Rs/tonne)
1,200 - +8% +1% +2%		Jun-17	968	81,470
1,100 - +5%		Jul-17	991	86,588
		Aug-17	1,038	86588
		Sep-17	1,124	91,058
	Mar-18 May-18	Oct-17	1,110	92,740
	Source: Crisil	Nov-17	1,125	90,058
Domestic Domestic Price (RIL D120MA) Rs/tonne		Dec-17	1,144	91,058
105,000 -	% ^{-1%} +4%	Jan-18	1,195	93,558
+6% $+2%$ $+1%$ $+3%$ $+3%$		Feb-18	1,220	100,488
90,000		Mar-18	1,203	100,488
		Apr-18	1,206	98,988
75,000		May-18	1,231	103,128
May-17 Jul-17 Sep-17 Nov-17 Jan-18 M Source: Reliance In	Mar-18 May-18	*The act		vary depending ayer, grade etc.

Outlook

In October, the international prices decreased owing to the slack in demand, however, the domestic prices increased due to the continued local demand. In November, the international prices increased owing to the decreased supply caused by the growing emphasis on environmental regulations in China. In domestic market, prices reduced as a result of decrease in the feedstock prices. In December, the international and domestic prices increased as the market remained stable with steady increase in demand. In January 2018, the prices increased on the back of increased feedstock prices, in international and domestic market alike. In Feb 2018, the international and domestic prices increased due to increase in the feedstock propylene prices. However, the increase was lower for international prices as the demand slacked due to Chinese new year holidays. In March, the international PP prices decreased owing to the decrease in feedstock prices, however, the decline was restricted by the supply constraints caused by the maintenance shutdown in various plants. The domestic market remained stable. In April, the prices of PP remained range bound. In May, international prices increased due to supply tightness on account of ongoing maintenance turnaround. Domestic prices followed suit.

ational		Monthly Av	erage Prices
		Period	*Dom (Rs/kg)
	Data not available for relevant (comparable to domestic) grades	Jun-17	137
	(comparation to astrostic) grades	Jul-17	133
		Aug-17	131
		Sep-17	134
		Oct-17	131
		Nov-17	126
estic	Domestic Price (RSS 4) Rs/Kg	Dec-17	131
200 -		Jan-18	127
	[-3%]	Feb-18	124
		Mar-18	124
* *		6 (+3%) Apr-18	120
100		May-18	124

Outlook

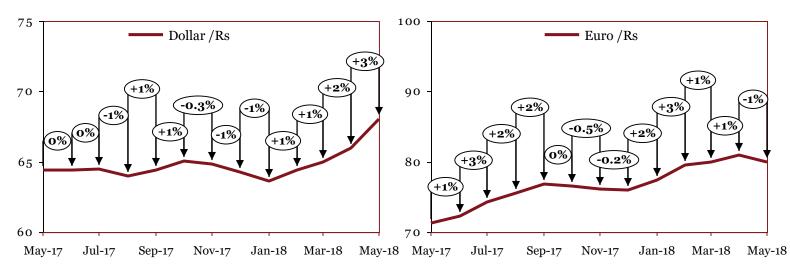
The decrease in the rubber price in the overseas market and expected surplus rubber supply caused the decline in the domestic rubber prices for July. In August, the rubber prices continued to drop as the global supply scenario gains stability. In September, the prices increased owing to the increased demand. In October, the domestic prices declined riding on the decreasing international prices. In November, the prices followed the similar trends as in the last month. In December, the rubber prices increased due to higher demand and increase in the crude oil prices. In January 2018, the prices decreased owing to decrease due to slackened demand. In March, the rubber market remained stable. In April, the prices decreased owing to the increase in the supply. In May, rising production coupled with high consumption led to an increase in prices.

Duhhor

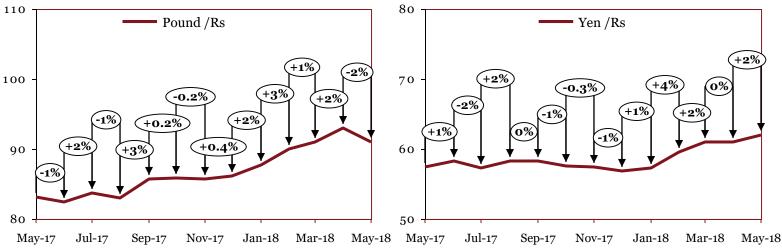


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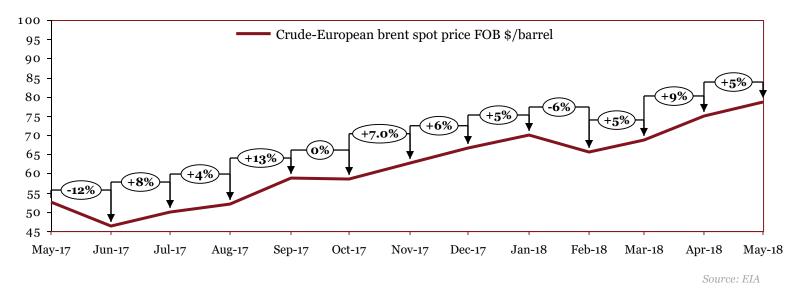
Forex Movement



Source: Reserve Bank of India

	Monthly Average Prices (Rs)											
	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18
\$	64	64	64	64	65	65	64	64	64	65	66	68
£	82	84	83	86	86	86	86	88	90	91	93	91
€	72	74	76	77	76	76	76	77	79	80	81	80
¥	58	57	58	58	58	57	57	57	59	61	61	62

Crude Oil



Monthly Average Prices (\$/barrel)											
Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-1 7	Jan-18	Feb-18	Mar-18	Apr-18	May-18
46	50	52	59	59	63	67	70	66	69	75	79

Commodity Specifications

Commodity	International	Domestic		
Iron Ore	IOECI635 Index (CIF China) - (Fe63.5%) CIF China	Crisil - Grade 1: 58% to below 60% Fe Fines - Grade 2: 60% to below 62% Fe Fines - Grade 3: 62% to below 65% Fe Fines - Grade 4: 65% and above Fe Fines		
Pig Iron	Crisil -Foundry grade FOB CIS	Crisil -Foundry grade ex-factory, India		
Stainless steel	NA	PwC Research -G 304 CR Coil -G 304 HR Coil		
Wire rod	Crisil -CIS Black Sea (US \$/Tonne)	Crisil - Wire rods: 5.5 mm (Prices are inclusive of excise duty by exclusive of VAT/Sales tax)		
Steel Billets	Crisil -FOB CIS Black Sea Previously: FOB Latin America	Crisil - 100^100 mm (Avg. prices collated from 2- 3 locations)		
Hot-rolled coils	Crisil -CIS FOB Black Sea	Crisil - 14G 2mm (Avg. prices collated from 2-3 locations)		
Cold-rolled coils	Crisil -CIS FOB Black Sea	Crisil - Mumbai 16G (Avg. prices collated from 2-3 locations)		
EN 8	NA	PwC Research -EN8 Alloy forging		
20MnCr5	NA	PwC Research -Alloy forging		
Ferro titanium	Ferrotitanium (Europe-70% In Warehouse Rotterdam) Previously: Ferrotitanium (min 70% in warehouse Rotterdam, Europe) \$/kg	NA		
Ferro chrome	Crisil : FOB Hong Kong Cr 50%	Crisil: Ex-factory Cr 60%		
Ferro molybdenum	Ferro-molybdenum (China-60% EXW) <i>Previously: Ferro-molybdenum (65%min</i> <i>in warehouse Rotterdam, Europe) \$/kg</i>	NA		

Commodity Specifications

Commodity	International	Domestic		
Ferro vanadium	Ferro Vanadium (80% in warehouse Pittsburgh, US) \$/kg Previously: Ferrovanadium 78-82% V max 1.5% Si FOB North America warehouse USD/lbs	NA		
Ferro silicon	Crisil - FOB China Si 75%	Crisil - Ex-factory Si 70%		
Aluminium	LME -Primary aluminium with impurities no greater than the chemical composition of one of the registered designations: •P1020A in the North American and International Registration Record entitled "International Designations and Chemical Composition Limits for Unalloyed Aluminium" (revised March 2007) •Al99.70 in the GB/T 1196-2008 Standard entitled "Unalloyed aluminium ingots for remelting"	NCDEX -Primary aluminium 99.7% purity (minimum) form: ingots, T-bars,		
Copper	LME -Grade A copper must conform to the chemical composition of one of the following standards: •BS EN 1978:1998 - Cu-CATH-1 •GB/T 467-2010 - Cu-CATH-1 •ASTM B115-10 - cathode Grade 1	MCX - Grade 1 electrolytic copper as per B115 specification		
Zinc	LME -Special high-grade zinc of 99.995% purity (minimum) must conform to the chemical composition of one of the following standards: •BS EN 1179:2003 - 99.995% grade •ISO 752:2004 - ZN-1 grade •ASTM B6-12 - LME grade •GB/T 470-2008 - Zn99.995 grade	NCDEX - Zinc of 99.995% minimum purity. Zinc must conform with the 99.995% graded chemical composition of BS EN 1179:1996 Standard entitled "Zinc and Zinc alloys primary Zinc" Form: ingots		

Commodity Specifications

Commodity	International	Domestic						
Nickel	LME - Nickel of 99.80% purity (minimum) conforming to B39-79 (2013) - GB/T 6516-2010	NCDEX - 4"*4" approved pure cut Nickel of 99.80% purity (minimum)						
Tin	LME - Tin of 99.85% purity (minimum) conforming to BS EN 610:1996	MCX - The LME approved tin ingot of 99.85 purity (minimum)						
Magnesium	Magnesium (China Shanghai Changjiang Spot Price) CNY/tonne Previously: Magnesium (99.8% FOB China Main Ports Spot Price) \$/tonne	NA						
Platinum	Metal in sponge form with minimum purities of 99.95% for platinum and palladium, and 99.9% for rhodium							
Palladium								
Rhodium	-							
Low density polyethylene (LDPE)	International price (C&F FEA) \$/tonne	RIL-16MA400 grade						
Polypropylene (PP)	International Price (PPHP) \$/tonne	RIL-D120MA grade						
Rubber Prices	NA	NCDEX/Rubber board - RSS 4 (Ribbed Smoked Sheet 4) ex- warehouse Kochi exclusive of all taxes						
Forex Movement	RBI reference rates							
Crude	European Brent spot price FOB \$/barrel	– Energy Information Administration (EIA)						



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