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### **Commodity price monitor** May -19

Prepared for ACMA

Strictly private and confidential

June 2019





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# **Commodity trend dashboard**

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

Commodity	Region	Q-o-Q	Q-o-Q Up		Down
Iron & Steel					
Iron Ore	International	11%			
	Domestic low grade				
	Domestic high grade				
Pig Iron	International	2%			
	Domestic			0%	
Stainless steel	Domestic			-5%	▼
	Domestic			-5%	•
Wire rod	International	7%			
	Domestic			0%	
Steel Billets	International			-1%	▼
	Domestic			0%	▼
Hot-rolled coils	International	0%			
	Domestic			0%	
Cold-rolled coils	International	1%			
	Domestic			0%	▼
Steel Scrap	Domestic			-3%	▼
EN8	Domestic			-1%	▼
20MnCr5	Domestic			-1%	▼
Ferro-alloys					
Ferro titanium	International	11%			
Ferro chrome	International	2%			
	Domestic			-1%	•
Ferro molybdenum	International	5%	<b></b>		
Ferro vanadium	International			-32%	▼
Ferro silicon	International			-1%	▼
	Domestic			-7%	▼

### 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-o-Q Up	Q-o-Q Dowi
ase Metals			
Aluminium	International	9%	
	Domestic		-3% 🔻
Copper	International	4%	
	Domestic	2%	
Zinc	International	9% 🔺	
	Domestic	4%	
Nickel	International	3%	
	Domestic		-2% 🔻
Tin	International		-2%
	Domestic		-3% 🔻
Magnesium	International	0%	
Precious Metals			
Platinum	International	8%	
Palladium	International		-3%
Rhodium	International	9%	
Polymers			
Low density polyethylene (LDPE)	International		
	Domestic	5%	
Polypropylene (PP)	International		
	Domestic	5%	
Rubber	Domestic	2%	
Currency Exchange			
Dollar	International		-2%
Pound	International		-3% 🔻
Euro	International		-2% 🔻
Yen	International		-3% 🔻

#### Calendar Year 18-19: Q vs. Q update

Iron & Steel

Iron	& Steel	8
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### Iron Ore

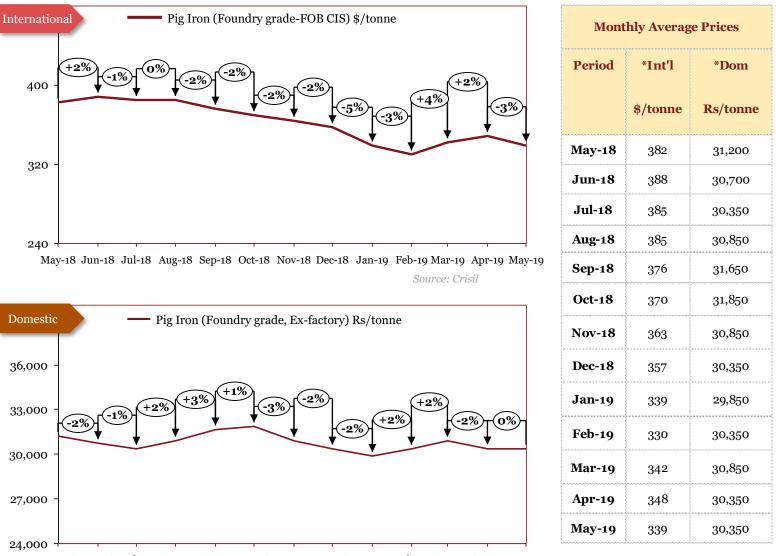
International		Monthly Av	verage Price	es
		*Int'l	*D	om
	Period	\$/tonne	Rs/tonne	
80 - +3%			65% & below	65% & above
	May-18	70	1,726	2,993
	Jun-18	70	1,676	2,946
60	Jul-18	68	1,757	3,264
May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19	Aug-18	70	1,799	3,289
Source: Crisil	Sep-18	70	1,760	3,648
Domestic	Oct-18	72	1,759	3,501
4,000 - $+11\%$ $+11\%$ $+11\%$ $-7\%$ Prices not	Nov-18	78	1.849	3,529
Prices not released by the	Dec-18	74	1,983	3,291
source yet	Jan-19	80	1,723	3,090
	Feb-19	92	1,687	2,994
	Mar-19	92	-	_
1,000 -	Apr-19	94	-	-
0	May-19	102	-	-

May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Source: Crisil \*The actual prices may vary depending on city, player, grade etc.

#### Outlook

In July, expansion in global mine supply, easing in steel prices and renewed production curbs at mills in China blunted overall demand and caused a decline in prices in the international market. In August, international prices rose mainly due to increased demand from China and decreased supply from Brazil. In September, international prices remained stable. In October, international iron ores increased with improvement in steel demand and high import from China. In November, iron ore prices witnessed increase. In December, prices declined owing to sluggish demand. In January, declining trend in international iron ore prices was reversed. In February, supply disruption of Vale's iron ore mine in Brazil, which is expected to hit 70 million tonne of global iron ore production led to concerns over iron ore supply, lifting global prices. In March 2019, prices remained unchanged due to stable market conditions. In April, international iron ore prices continued to rise on account of supply disruptions from Brazil's Vale mines continued leading to diminished inventories globally pushing up international prices.

### Pig Iron



May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 \*The actual prices may vary depending on Source: Crisil city, player, grade etc.

#### Outlook

In September, domestic pig iron prices increased during the month on back of higher raw material cost and rising steel prices. In October, pig iron prices increased during the month on back of sustained demand. In November, prices decreased owing to decline in prices of finished steel products. In the month of December 2018, pig iron (foundry grade) prices decreased on back of slump in domestic steel prices. In January 2019, pig iron (foundry grade) prices decreased on account of increased supply in the market. Additionally, decline in iron ore prices as well softening of steel prices put further pressure on pig iron prices. In February 2019, domestic pig iron (foundry grade) prices increased on account of increase in iron ore prices. In the month of March 2019, pig iron (foundry grade) prices increased led by uptick in steel prices and modest demand. In April 2019, international prices rose on account of increase in iron ore prices. Domestic pig iron prices declined led by fall in steel prices and muted demand. On raw material front, decrease in iron ore prices and coking coal prices during the month further pressurized prices. In May, high prices of raw material such as iron ore and low demand from foundries led to stagnation of domestic prices. On the international front, prices dropped on the back of weak demand.

### Wire Rod

Internation	Wire Rod (CIS Black Sea) \$/tonne	Monthly Average Prices		
700 -		Period	^*Int'l	*Dom
600 -	(-1%) $(+2%)$ $(0%)$ $(-3%)$ $(-9%)$ $(+4%)$ $(+2%)$		(\$/tonne)	(Rs/tonne)
		May-18	583	42,244
500 -		Jun-18	576	41,444
		Jul-18	587	38,944
400 -		Aug-18	587	39,944
May	r-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Source: Crisil	Sep-18	597	40,944
		Oct-18	597	41,444
Domestic	Wire Rod (India 5.5 mm, Inc. ex) Rs/tonne	Nov-18	576	40,444
50,000 -		Dec-18	525	38,744
45,000 -	-2% $+3%$ $+3%$ $+1%$ $-2%$ $-4%$ $+4%$ $0%$ $-1%$ $(-1%)$	Jan-19	504	38,644
40,000 -		Feb-19	525	40,144
		Mar-19	545	40,144
35,000 -		Apr-19	556	39644
30,000 -		May-19	566	39644
	7-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19	× 771		

May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

Source: Crisil

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

#### Outlook

In July, international prices increased and domestic prices continued to decline owing to decreased demand due to the monsoon season. In August, declining trend in domestic prices was reversed due to small and medium sized players increasing prices due to increased demand. In September, domestic prices increased led by healthy domestic demand and rise in raw material costs. In October, prices increased during the month led by healthy domestic demand, currency depreciation, and rise in raw material costs. In November, domestic prices fell owing to sluggish demand sentiment. In December, fall in global prices and domestic supply situation led to decrease in domestic prices. In January 2019, prices recorded a decline primarily owing to subdued demand. In February, prices increased due to elevated raw material prices and higher demand. In March, international prices increased during the month primarily owing to increased demand. In April 2019, international prices rose in line with steel and steel product prices whereas domestic wire rod prices declined primarily owing to muted demand sentiment. In May, domestic prices remained stagnant due to muted demand growth.

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

**Steel Billets** 

International Price (FOB CIS Black Sea) \$/tonne	Мот	nthly Average	e Prices
600 -	Period	^*Int'l	*Dom
		(\$/tonne)	(Rs/tonne)
450 - 450	May-18	516	37,467
450	Jun-18	513	38,367
	Jul-18	507	35,050
300	Aug-18	487	34,300
May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Source: Crisil	Sep-18	479	38,200
	Oct-18	465	35,667
Domestic —— Billets (100^100 mm) Rs/tonne	Nov-18	459	35,850
80,000 - 70,000 -	Dec-18	459	33,833
60,0007%	Jan-19	459	33,467
50,000 $(+2%)$ $(-2%)$ $(+1%)$ $(-0%)$ $(+3%)$ $(-1%)$ $(-1%)$ $(-1%)$	Feb-19	442	34,633
	Mar-19	442	34,333
20,000 -	Apr-19	442	34100
10,000 -	May-19	442	33867
o —	May 19	444	- JJ00/

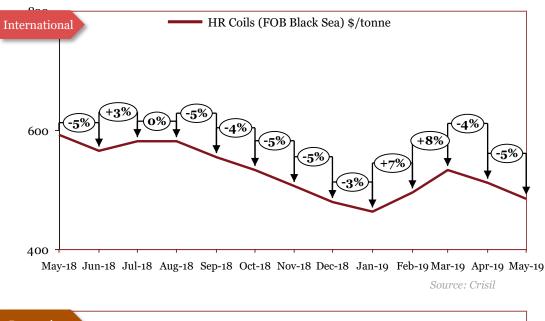
May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 \*The actual prices may vary depending on Source: Crisil city, player, grade etc.

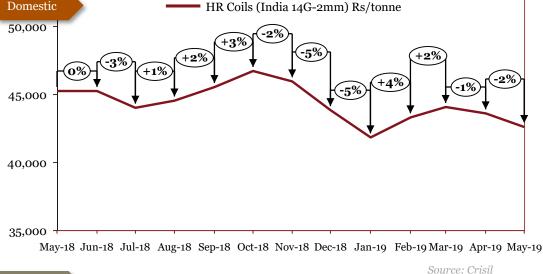
#### Outlook

In June, international prices fell due to muted demand amid the threat of an escalating global trade war. Domestic prices rose on account of short supply of scrap. In July, prices in the domestic market fell due to decreased demand owing to fall in construction activity because of the monsoon season and reduced ability to export owing to international trade wars. In August, domestic prices continued to fall. In September, domestic prices increased primarily owing to increased off-take of medium size mills, lower inventories coupled with elevated input material costs. In October, billet prices experienced decline owing to weaker domestic demand. In November, prices fell in the global market due to a return of Chinese producers to the export market leading to increased supply. In December, international prices stagnated while domestic prices fell. In January 2019, prices remained unchanged due to stable demand-supply conditions. In February, domestic prices increased due to improved demand, especially from construction sector. In March, domestic steel billet prices fell whereas international prices remained unchanged. In April, international prices did not fluctuate due to unchanged market conditions while domestic prices fell. In May, market conditions remained unchanged for a second month in a row leading to stagnant prices.

^International prices changed due to change in the grade

### Hot-Rolled (HR) Coils





Monthly Average Prices				
Period	*Int'l	^*Dom		
	(\$/tonne)	(Rs/tonne)		
May-18	592	45,200		
Jun-18	565	45,200		
Jul-18	581	44,000		
Aug-18	581	44,500		
Sep-18	554	45,500		
Oct-18	533	46,700		
Nov-18	506	45,900		
Dec-18	480	43,800		
Jan-19	464	41,800		
Feb-19	496	43,300		
Mar-19	533	44,050		
Apr-19	512	43550		
May-19	485	42550		

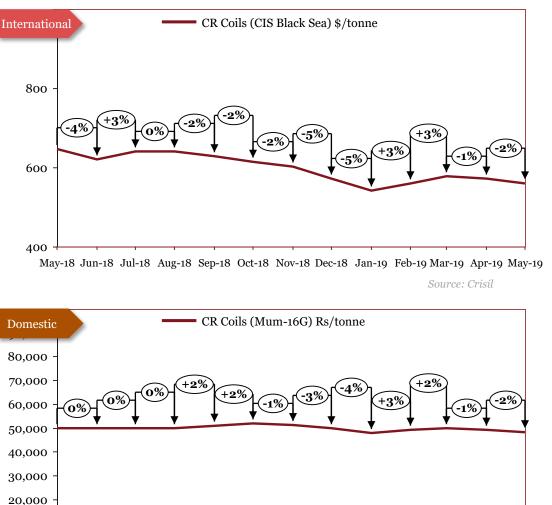
\*The actual prices may vary depending

on city, player, grade etc.

#### Outlook

In the month of December 2018, international prices declined on account of weak demand in China's domestic market along with tepid exports demand due to New Year holidays. In line with global prices, domestic prices declined owing to sluggish demand. Further, decline in global steel prices has led to landed costs of imports being more cost effective than domestic offers, leading to decline in domestic prices. In January 2019, international HR coil prices declined owing to weak demand. On domestic front, prices declined amid cost effective imports and bearish export market. In February 2019, international prices increased due to increase in raw material prices. Domestic prices increased in line with international prices. In March, temporary production cuts in China led to higher international prices. In line with International prices, domestic demand. In the month of April 2019, international prices declined on back of muted demand. In line with International prices, domestic prices fell too due to moderation in domestic demand. In May, international prices decreased due to muted demand. Domestic prices fell too due to moderation in demand (especially from auto sector).

### Cold-Rolled (CR) Coils



May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

Monthly Average Prices				
Period	*Int'l	^*Dom		
	(\$/tonne)	(Rs/tonne)		
May-18	652	49,722		
Jun-18	621	49,722		
Jul-18	640	49,722		
Aug-18	640	49,722		
Sep-18	627	50,722		
Oct-18	615	51,900		
Nov-18	603	51,300		
Dec-18	572	49,800		
Jan-19	541	47,800		
Feb-19	560	49,000		
Mar-19	578	49,750		
Apr-19	572	49250		
May-19	560	48250		

\*The actual prices may vary depending

on city, player, grade etc.

Outlook

o

10,000

International indexed CR coil prices declined in October 2018 on back of declining international HR prices. Domestic CR prices increased during the month, mirroring HR prices trend. In November, international and domestic CR coil prices declined followed trend of declining HR prices. In December, international indexed CR coil prices declined in December 2018 on back of declining international HR prices. In January 2019, prices continued declining trend. In February, both international and domestic prices increased in line with HR prices. International indexed CR coil price increased in March 2019 on back of increasing international HR prices. Domestic CR prices increased in line with HR prices. International indexed CR coil price declined in April 2019 on back of declining international HR prices. Domestic CR prices increased in line with HR prices. Domestic CR prices declined during the month, mirroring HR prices trend. In May, prices declined both internationally and domestically due to declining HR prices.

Source: Crisil.

		ly Average Prices
	Period	*Dom
		(Rs/Tonne)
Domestic Steel scrap (Heavy melting, Excl. GST) Rs/Tonne	May-18	28200
49,000 -	Jun-18	28500
10.000 -	Jul-18	27000
42,000 -	Aug-18	29000
35,000 - +1% - 5% +2% - 6% - 3%	Sep-18	29500
	Oct-18	27750
	Nov-18	26750
21,000	Dec-18	25950
May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Source: CRISIL	Jan-19	25550
	Feb-19	26050
	Mar-19	25550
	Apr-19	25050
	May-19	25050

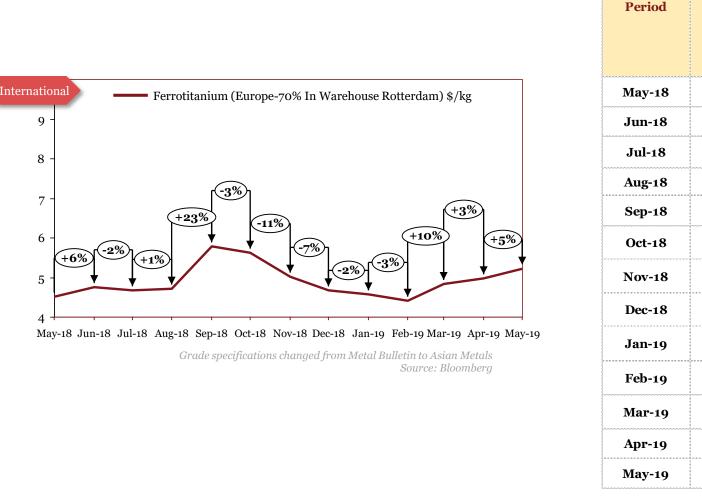
### Steel Scrap (Heavy Melting)

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

#### Outlook

Domestic scrap prices have displayed a downward trend over the last one year owing to a stronger dollar which made exports less competitive leading to excess supply in the market. Another reason for excess supply in the market is seen as slowing infrastructure growth due to which inventories have piled up. In May, steel scrap prices remained unchanged due to the lack of demand growth in the market.

<b>Ferro-alloys</b>	Ferro-a	lloys	16
1 cm 0 uttogs	8	Ferro titanium	17
	9	Ferro chrome	18
	10	Ferro molybdenum	19
	11	Ferro vanadium	20
	12	Ferro silicon	21
	13	EN8 Alloy Steel (Forging)	22
	14	Stainless Steel	23
	15	20MnCr5 Alloy Steel (Forging)	24



### Ferro titanium

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

**Monthly Average Prices** 

^\*Int'l

(\$/kg)

4.5

4.75

4.66

4.7

5.78

5.61

5

4.66

4.56

4.41

4.83

4.97

5.21

#### Outlook

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. Prices increased in June and declined in July due to seasonal slowdown. In August, prices increased due to persistent low supply. Global prices in September increased due to tightness in ferro-titanium availability as well as higher grade scrap - particularly from Russia. In addition, consumer activity picking up after seasonal slowdown also led to increase in prices. In October 2018, high-volume sales to Europe from Russia dragged down prices. From November 2018, ferrotitanium prices have witnessed consistently declining trend owing to unfavourable market conditions which has continued till February 2019. In March, ferrotitanium prices increased owing to increased demand and potentially reduced supply from one major supplier. In April, increasing trend in prices continued. In May, supply worries from a major producer in UK forced prices to continue an upward trend.

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

### Ferro chrome

International	Ferro Chrome (FOB Hong Kong, Cr 50%) \$/tonne	Monthly Average Prices		
2,000 -		Period	*Int'l	*Dom
1,600 -			(\$/tonne)	(Rs/tonne)
(+2%)		May-18	1,130	74,500
1,200	$ \begin{array}{c} & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ $	Jun-18	1,156	78,000
		Jul-18	1,147	77,000
800		Aug-18	1,044	72,000
May-18 Jun-18	Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-1	<sup>9</sup> Sep-18	1,027	74,000
	Source: Crisil	Oct-18	1,036	83,500
Domestic	Ferro Chrome (Cr:60%, Ex Fac) Rs/tonne	Nov-18	1,010	78,500
125,000 -		Dec-18	993	70,000
	r(- <del>5</del> %)1	Jan-19	1010	68,500
100,000 -	+11%	Feb-19	1010	70,500
		Mar-19	1079	73,000
75,000		Apr-19	1079	72000
		May-19	1019	68500
50,000 +	Iul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-10 Feb-10 Mar-10 Apr-10 May-1	1	1	

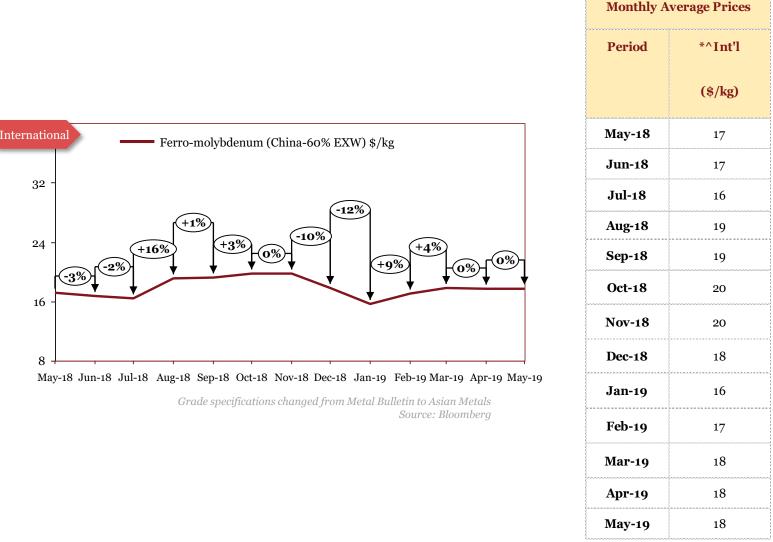
May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

Source: Crisil

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

#### Outlook

In January 2019, international price of ferro chrome increased on account of slight pick up in Chinese demand. Successive shutdown/production cut by stainless steel mills, and relatively high level of chrome ore stock, coupled with some mills facing capital restraints are the key factors for the restricted growth in Ferro Chrome prices. On domestic front, prices recorded a decline primarily owing to weak demand. International index price of ferro chrome in February remained stable owing to muted Chinese demand. On domestic front, prices recorded an increase on back of rise in chrome ore prices. In March, international index price of ferro chrome increased amidst healthy Chinese demand, led by increase in alloy tender prices and power constraints in two major ferro-chrome producing regions in China. On domestic front, prices recorded an increase on back of rise in chrome ore prices. International index price of ferro chrome remained unchanged in April amidst stable Chinese demand. On domestic front, prices recorded a decline on back of weak demand. In May, international and domestic prices declined on the back of continued weakening in demand.



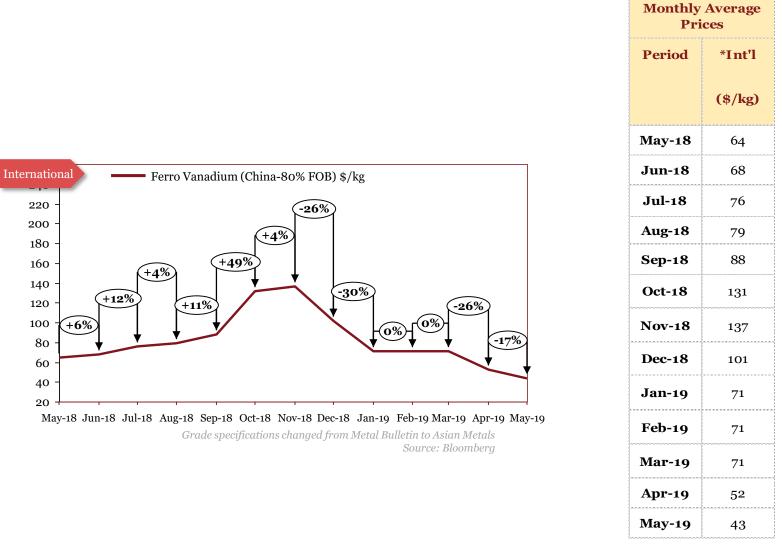
### Ferro molybdenum

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

#### Outlook

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. In June and July, prices continued with declining trend. In August, declining trend in prices was reversed on account of firm demand. In September, prices remained stable. Prices increased in October 2018. Prices witnessed declining trend since November 2018, following the price movements in other ferro-alloys. In February 2019, declining trend was reversed. In March, prices increased owing to demand growth. In April, increasing trend in prices continued. In May, stable market conditions resulted in stable prices.

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



Ferro vanadium

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

#### Outlook

In May, prices registered a decline due to limited demand. In June and July, prices witnessed increase due to persistent tight supply in the international market. In August, prices continued to rise. In September, global prices continued with increasing trend due to global supply constraints. In October, prices increased due to the impending imposition of stringent rebar standards in China together with tight vanadium supply globally. Since November 2018, ferro-vanadium prices have witnessed declining trend owing to weak buying interest and unfavourable market sentiment. Prices remained unchanged in February 2019 due to stable market conditions. In March, prices remained unchanged due to stable market conditions. In April, prices increased due to strong demand from Chinese market, which in turn can be partly attributed to increase in demand arising from the implementation of new rebar manufacturing standards in China. In May, prices continued to decline due to sluggish demand from the European automotive sector.

### Ferro silicon

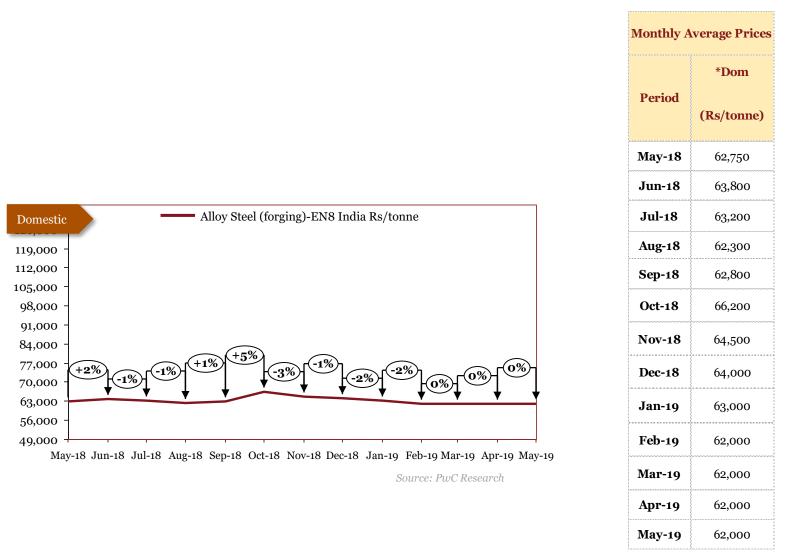
International	Ferro silicon (Si 75%, FOB China)\$/tonne	Мо	onthly Averag	e Prices
2,400 -		Period	*Int'l	*Dom
_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(\$/tonne)	(Rs/tonne)
+2%) -4	$\begin{bmatrix} -1\% \end{bmatrix} \begin{bmatrix} -2\% \\ +1\% \end{bmatrix} \begin{bmatrix} -2\% \\ +1\% \end{bmatrix} \begin{bmatrix} -2\% \\ -11\% \end{bmatrix} \begin{bmatrix} 0\% \\ -11\% \end{bmatrix}$	May-18	1,456	98,200
1,600 -		Jun-18	1,490	94,700
		Jul-18	1,442	89,700
800		Aug-18	1,415	84,500
	Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19	Sep-18	1,401	85,500
	Source: Crisil	Oct-18	1,373	90,000
Domestic	Ferro silicon (Si 70%, India Ex-Fac) Rs/tonne	Nov-18	1,380	90,200
		Dec-18	1,359	85,700
150,000 -		Jan-19	1,208	80,700
100,000	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Feb-19	1,201	77,200
		Mar-19	1,228	76,700
		Apr-19	1,228	74,200
		May-19	1,180	70,700

#### Outlook

Source: Crisil

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

# International ferro silicon prices declined marginally in December 2018 owing to muted demand. In line with global prices, domestic ferro silicon prices declined on the back of increasing inventories with manufacturers and supply outstripping demand. International ferro silicon prices declined in January 2019 owing to muted demand, especially in China. Many ferro silicon prices declined on the back of increasing inventories with global prices, domestic ferro silicon prices declined on the back of increasing inventories with global prices, domestic ferro silicon prices declined on the back of increasing inventories with manufacturers and supply outstripping demand. International ferro silicon prices declined in February 2019 owing to muted demand, especially in China. In line with global prices, domestic ferro silicon prices declined on the back of increasing inventories with manufacturers and supply outstripping demand. International ferro silicon prices declined on the back of increasing inventories with manufacturers and supply outstripping demand. International ferro silicon prices increased in March 2019 with marginal improvement in demand, especially in China. International ferro silicon prices remained constant in April 2019 owing to moderation in demand, especially in China. Domestic ferro silicon prices declined on the back of weak demand. In May, lower prices were seen as a result on increased supplies and lower tender prices.



**EN8 Alloy Steel (Forging)** 

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

#### Outlook

In April, prices remained constant due to stable market conditions and increased in May along with other steel products. Similarly, prices increased in June in step with other steel products. In July, prices fell due to unfavourable demand. In August, prices continued to fall. In September, prices increased along with price rise in other steel products. In October, prices increased in line with other products whose prices depend on the fundamentals of the economy. In November, domestic prices witnessed decline. In December, prices declined further owing to a decrease in the Chinese market. In January 19, prices continued with declining trend. In February, declining trend continued. In March, prices remained unchanged due to stable market conditions. In April, market conditions remained unchanged, reflecting in the prices for the month. In May, market conditions continued to remain unchanged resulting in stable prices.

**Monthly Domestic Average Prices** \*G304 HR \*G304 CR Period Domestic G304 HR Coil (Rs/tonne) (Rs/tonne) May-18 144,700 156,250 180,000 +3% 0% +2% Jun-18 148,700 160,250 Jul-18 145,200 156,750 120,000 Aug-18 145,200 156,750 Sep-18 145,700 157,250 60,000 **Oct-18** 149,700 161,250 May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Nov-18 141,700 153,250 Domestic G304 CR Coil Dec-18 133,200 144,750 147,750 Jan-19 136,200 180,000 Feb-19 146,700 152,250 Mar-19 141,700 151,250 120,000 Apr-19 138,200 147,750 May-19 128,200 137,750 60.000 May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 \*The actual prices may vary depending

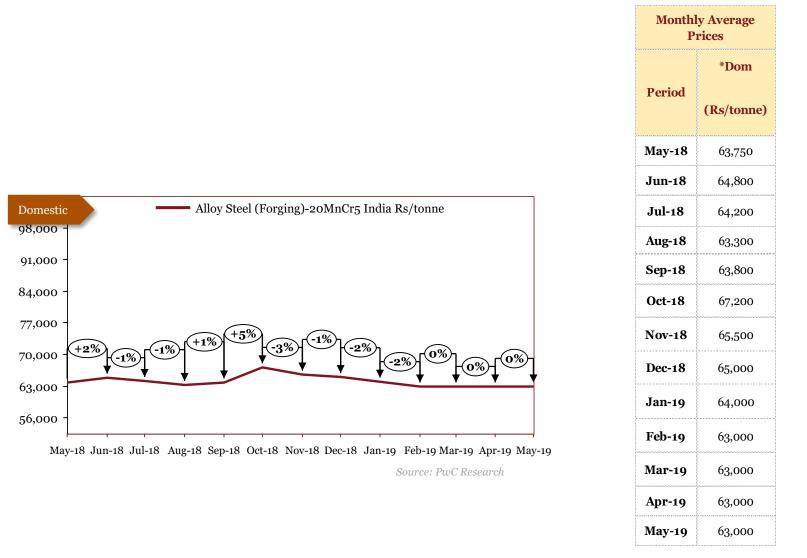
#### Outlook

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. In June, prices increased owing to strong demand. In July, domestic prices for stainless steel declined following global cues. In August, prices remained the same owing to stable market conditions. In September, prices continued to remain stable. In October, prices increased after flat trend over past months. In November, international and domestic prices decreased simultaneously. In December, prices continues to decline. In January 2019, domestic prices increased on account of increase in price of raw material imports. In February, increasing trend in HR and CR coil prices continued. In March, price trend from previous months was reversed. In April, prices continued to decline. In May, prices declined marginally due to weak Nickel prices.

Source: PwC Research

**Stainless Steel** 

on city, player, grade etc.



### 20MnCr5 Alloy Steel (Forging)

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

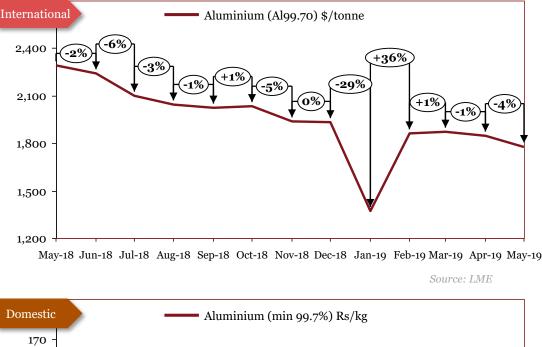
#### Outlook

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. In June, prices increased in step with other steel products. Similarly, prices in the domestic market fell in line with other steel products owing to muted demand. In August, process continued to fall. In September, domestic prices reversed declining trend. In October, declining trend in prices was reversed. In November, prices fell due to muted demand. Prices fell in line with other steel products. In January 2019, prices continued with declining trend. In February, prices remained unchanged due to stable market conditions. In March, prices remained unchanged due to stable market conditions. In April, market conditions remained unchanged, reflecting in the prices for the month. In May, market conditions continued to remain unchanged resulting in stable prices.

# Base Metals

Base Metals		25
16	Aluminium	26
17	Copper	27
18	Zinc	28
19	Nickel	29
20	Tin	30
21	Magnesium	31

Aluminium



mostic		0
omestic 170 -	Aluminium (min 99.7%) Rs/kg	N
160 -		D
100	(-2%) $(-3%)$ $(+3%)$ $(+2%)$ $(-7%)$	Ja
150 -		F
140 -		М
130 -		A
120 -		М

Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
May-18	2,290	155	
Jun-18	2,240	152	
Jul-18	2,098	144	
Aug-18	2,045	142	
Sep-18	2,023	146	
Oct-18	2,034	150	
Nov-18	1,937	139	
Dec-18	1,931	135	
Jan-19	1,371	132	
Feb-19	1,859	134	
Mar-19	1,872	130	
Apr-19	1,849	129	
May-19	1,775	124	

#### May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

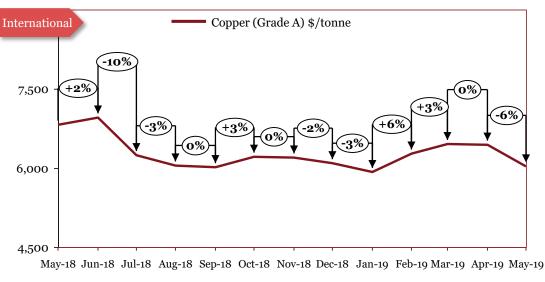
Source: NCDEX

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

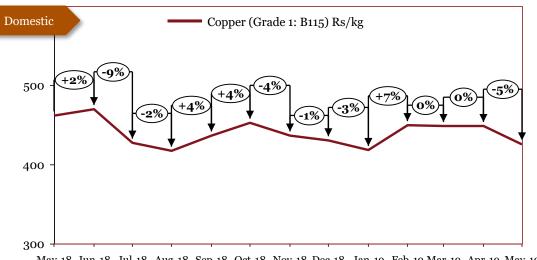
#### Outlook

In November, the LME prices fell over the uncertainty in demand from China. 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. However, in the domestic market, the excess supply caused reduction in the prices. In January, trade sanctions imposed by US on Chinese exports led prices to fall in the international market. Domestic market followed the suit. In February, 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, prices decreased owing to many aluminium companies shedding capacity in China after situation of overcapacity in the past couple of months. In May, domestic iron prices declined due muted demand stemming from General Elections. International prices declined due to trade tensions between China & the US.

### Copper



Source: LME



Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
May-18	6,821	462	
Jun-18	6,954	469	
Jul-18	6,248	428	
Aug-18	6,039	418	
Sep-18	6,020	436	
Oct-18	6,215	453	
Nov-18	6,192	437	
Dec-18	6,094	430	
Jan-19	5,932	419	
Feb-19	6,278	450	
Mar-19	6,450	448	
Apr-19	6,445	449	
May-19	6,028	425	

May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

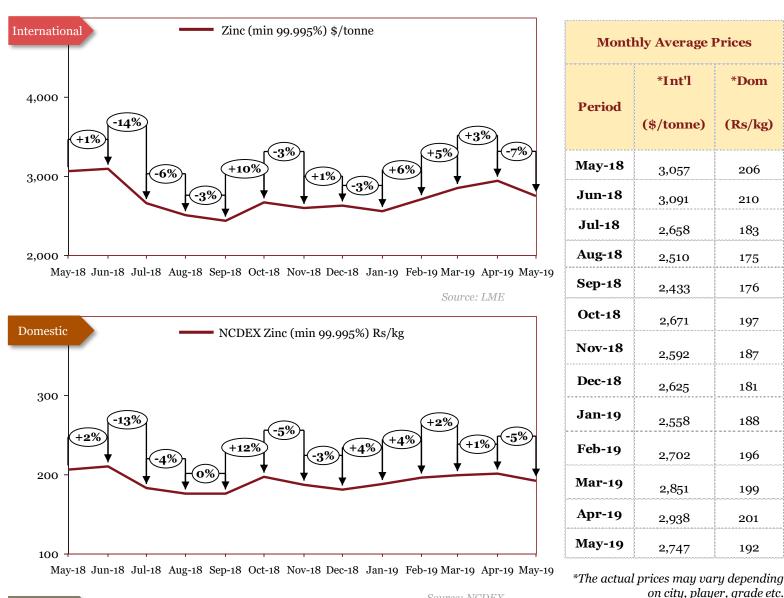
Source: MCX

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

#### Outlook

Domestic prices also fell due to developments in the international market. In August, international market prices declined owing to dampened demand that can be attributed to fall in value of emerging market currencies. Domestic market prices reflected the trend in international markets. In September, global prices fell further while domestic prices reversed declining trend. In October, international prices increased on account of high volumes of imports to China. Domestic prices rose on account of increased demand from consuming industries. In November, domestic prices followed trend in domestic demand from consuming industries. In December, prices in the international market fell due to lower volumes and continued market worries over a prolonged trade war. In January 2019, domestic prices reflected trend in global prices. In February, prices increased as global demand outpaces supply. Domestic prices followed suit. In March, international prices increased on the back of positive sentiment due to progress with US-China trade talks. In April, prices remained unchanged due to stable market conditions. In May, prices fell due to profit booking by traders and also lower demand in both domestic and international markets.

### Zinc

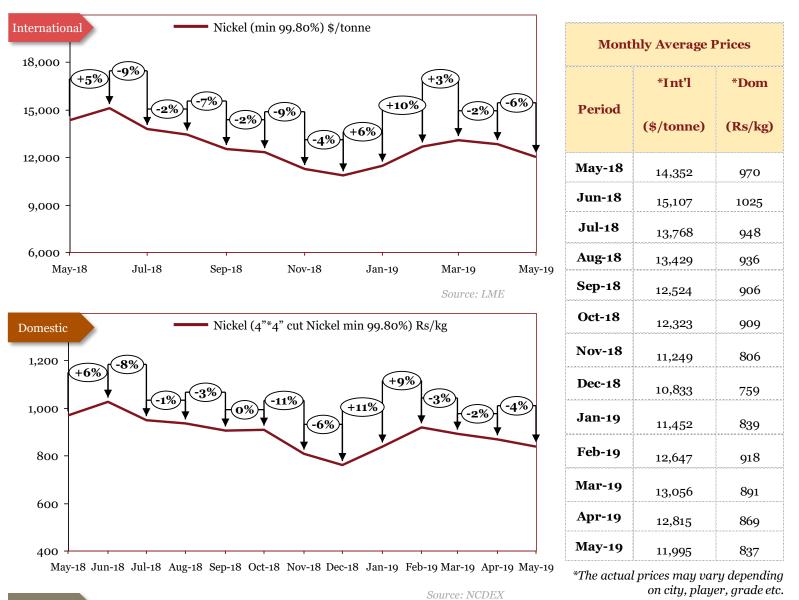


Outlook

In July, international prices fell due to surplus supplies and a narrowing deficit. The decline in prices was further catalyzed by escalating trade tensions. Domestic prices fell on the back of weak global cues amid easing demand from consuming industries. In August, zinc prices crashed owing to excess supply in the market and muted demand from China. In September, international prices fell further while domestic prices rose amid sustained demand from alloy industries. In October, global zinc prices rose due to depleting inventories and domestic prices followed suit. In November, prices fell due to slowing demand from major buyers owing to falling economic growth which in turn is putting pressure on prices. In December, prices in the international registered increase whereas prices in the domestic market continued to fall due to dampened demand. In January 2019, international prices increased whereas domestic prices fell. In February, increasing trend in domestic prices continued. In March, international zinc prices rose on back of rising global base metal prices and domestic zinc prices increased on account of demand growth. In April, increasing price trend continued. In May, international prices fell due to re-opening of some mines globally. Domestically, there was muted demand in the market resulting in lower prices.

Source: NCDEX

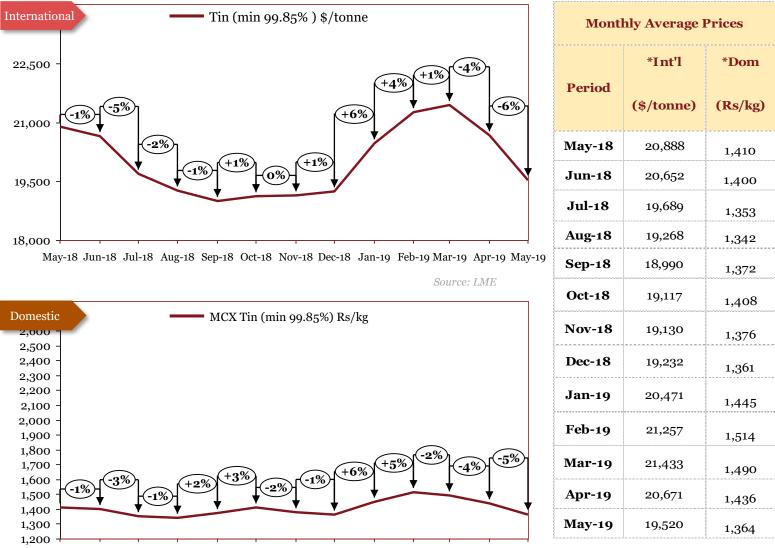
Nickel



Outlook

In July, prices in the international market fell due to excess supply and ongoing trade dispute between US and China. Domestic prices followed suit. In August, prices declined following the trend in base metal prices. In September, prices continued to fall. In October, global prices fell due to weakness in the stainless steel market, increasing nickel pig iron production and rising Shanghai nickel inventory. In November, prices fell in the global market due to growing concerns over slowing demand in top consumer China. Domestic prices followed suit. In December, nickel prices declined, following the price trends of other base metals. In January 2019, domestic nickel prices rose on account of limited supply. In February, prices increased as demand outpaced supply. In March, global prices rose on account of positive us-China trade talks. Prices in domestic market fell due to subdued demand. In April, nickel prices fell owing to increased market supply. Domestic prices fell owing to subdued demand. In May, prices fell due to volatility in demand stemming from electric vehicle production numbers.

### Tin



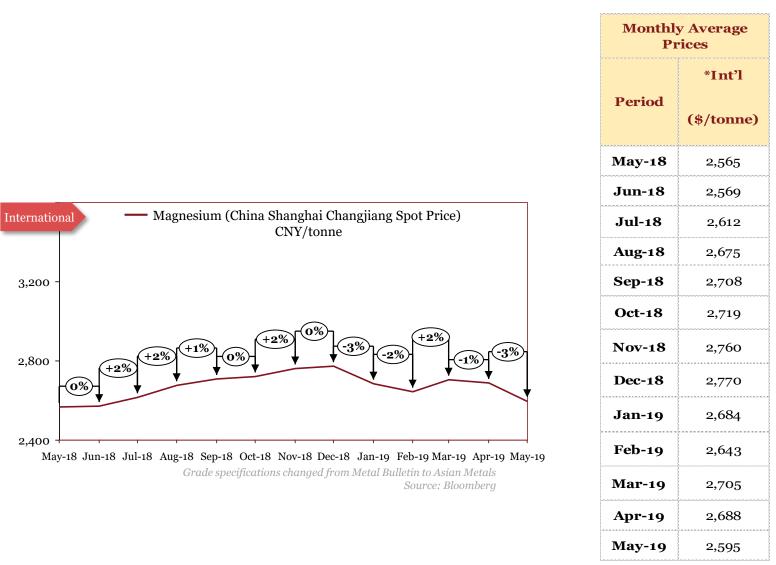
May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

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

#### Outlook

In August, prices declined owing to strong dollar and weakening emerging market currencies in the international market. In September, international prices continued to fall while domestic prices witnessed reversed trend. In October, global tin prices increased on concerns of tightened supply. Domestic prices followed international price trend. In November, international prices were unchanged due to stable market conditions. In December, tin outperformed other base metals in the international market. In January 2019, international prices witnessed increase due to supported by improving market sentiment amid ongoing trade talks between China and the United States. In February, tin prices increased in line with other base metal prices. International prices continued existing trend in March. Domestic prices fell due to subdued demand. In April, increasing trend in international prices was reversed. In May, Tin prices continued to decline due to weak demand stemming from drop in semiconductor sales.

Source: MCX



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

#### Outlook

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. In May, June and July, magnesium prices have witnessed increasing trend owing to favourable market conditions. In August, prices continued to rise. In September, prices rose on account of tighter supply. In October, magnesium prices continued with increasing trend. In November and December 2018, magnesium prices rose on account of tight market supply primarily from China and decreased in January 2019 with fall in demand. In February, magnesium prices continued to fall. In March, price trend was reversed. In April, prices fell owing to subdued demand. In May, the declining trend in prices continued due to low demand across global markets.

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

Magnesium

# **Precious Metals**

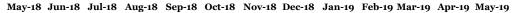
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22	Precious Metals	33

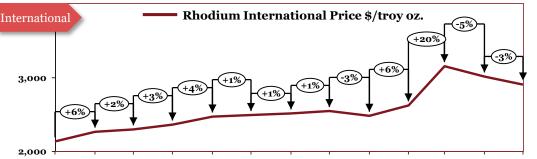
### **Precious** Metals

+10%



Monthly Average Prices (\$/Oz)			
Period	Pt	Pd	Rh
May-18	909	984	2,133
Jun-18	890	991	2,255
Jul-18	835	936	2,295
Aug-18	809	924	2,358
Sep-18	808	1,017	2,463
Oct-18	856	1,138	2,490
Nov-18	851	1,145	2,512
Dec-18	797	1,253	2,539
Jan-19	811	1,338	2,473
Feb-19	821	1,441	2,616
Mar-19	845	1,542	3,144
Apr-19	891	1399	3001
May-19	838	1340	2900





May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

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

#### Outlook

1,400

1,200

1.000

800

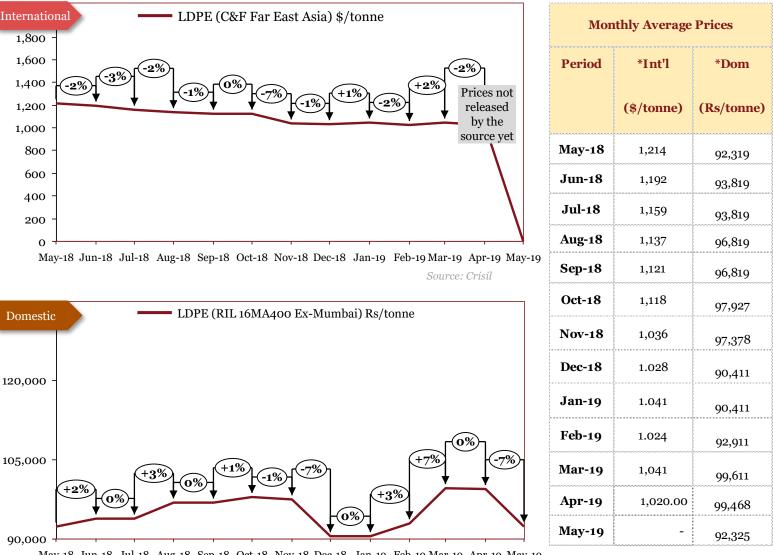
In October 2018, palladium prices increased owing to strong fundamentals and platinum prices increased in line with other precious metal price movements. In November, prices were largely unchanged. In December, platinum prices fell due to fall in demand from the automotive industry. Palladium prices increased due to increase in demand for hybrid and electric vehicles. Increase in palladium demand due to aforementioned reasons and limited supply in January 2019 led to continued increase in international market prices. In February, palladium prices rose further as demand outstripped production. In March, rhodium prices increased owing to growing demand and shrinking supply. Platinum prices increased owing to increase in demand from consuming industries. In April, platinum prices continued with rising trend. Palladium prices witnessed decrease owing to sluggish performance of both US and China auto markets. In May, prices for Palladium and Rhodium declined due to production cuts across automobile manufacturers on the back of high unsold inventory. Platinum prices fell due to decline in quantity of exports to global markets.

Source: Johnson Matthey

# Polymers & Rubber

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### Low density polyethylene (LDPE)



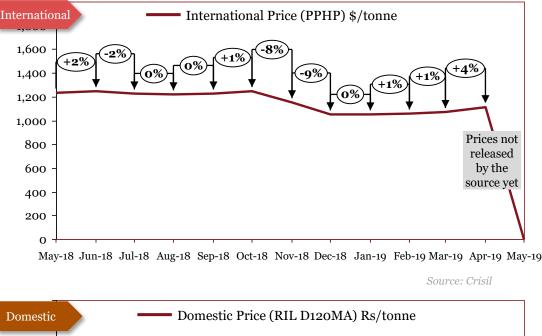
May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19 Source: Reliance Industries Ltd.

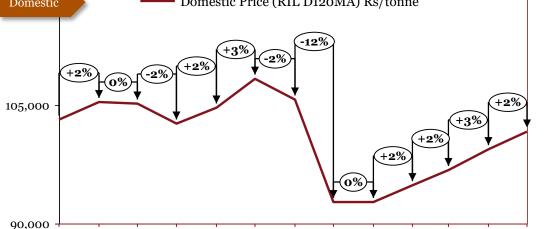
\*The actual prices may vary depending on city, player, grade etc.

#### Outlook

In May, international prices remained stable. In June, international prices witnessed decline whereas domestic prices continued to rise. In July, international prices fell owing to fall in feedstock ethylene prices coupled with weak demand. In August, international LDPE prices decreased in spite of rise in ethylene prices. On the domestic front, RIL increased domestic and deemed export prices of LDPE. In September, international LDPE prices declined due to due to weak demand. In October 2018, ldPE prices were stable given no major change in demand-supply. In October, global prices saw flat growth. In November, prices witnessed decline. In December, prices fell due to fall in feedstock prices. Prices remained unchanged in January 2019 due to stable market conditions. In February, international prices and domestic prices increased. In April, domestic prices witnessed decrease. In May, domestic prices fell sharply owing to a price war that has resulted from new capacity in the US coming on-stream.

### Polypropylene (PP)





Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
May-18	1,231	103,128	
Jun-18	1,248	105,378	
Jul-18	1,224	105,128	
Aug-18	1,220	102,628	
Sep-18	1,226	104,628	
Oct-18	1,244	108,234	
Nov-18	1,150	105,618	
Dec-18	1,051	92,718	
Jan-19	1,053	92,718	
Feb-19	1,060	94,885	
Mar-19	1,060	94,885	
Apr-19	1,071	96,718	
May-19	-	101,567	

90,000

May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19 Apr-19 May-19

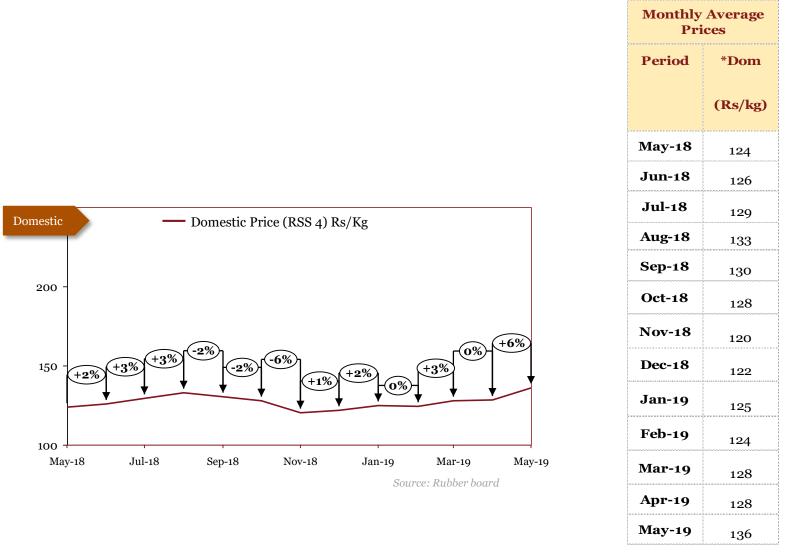
Source: Reliance Industries Ltd.

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

#### Outlook

Domestic prices followed suit. In June, prices rose on account of supply tightness. In July 2018, prices decreased due to decline in feedstock propylene prices coupled with weak demand. In August, despite rise in feedstock propylene prices, international prices were range bound due to weak demand. In September 2018, PP prices increased due to rise in feedstock propylene prices. In October 2018, PP prices increased owing to uptick in demand during second half of month from manufacturing segment as plants resumed normal operations post Chinese golden week holidays. In October 2018, both global and domestic prices witnessed increase. In November, prices declined due to poor demand. In December 2018, PPHP prices decreased primarily on account of decline in feedstock propylene prices. In January 2019, prices remained the same as last month. In February 2019, international and domestic prices witnessed increase. In March 2019, PP prices increased on account of supply tightness in the market. However, further increase in price was restricted due to no uptick in the demand. In April, domestic prices continued rising trend. In May, domestic prices of PP continued to increase due to supply issues, maintenance shutdowns and restricted supply among major grades of PP.

### Rubber



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

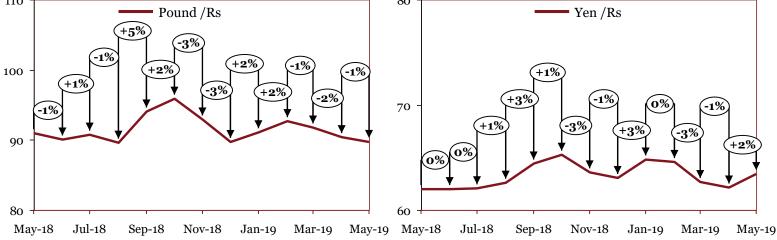
#### Outlook

In June, prices rose due to supply tightness, demand from tyre manufacturers to deliver pending natural rubber contracts, and fluctuations in international prices. In July, rubber prices increased due to improved demand. In August, domestic rubber prices increased owing to floods in Kerala. In September, prices declined on account of subdued demand. In October, increasing trend in domestic prices was reversed. In November, prices continued to decline. In December, prices increased owing to fall in output and rise in demand. In February, domestic prices followed trends in international market and decreased owing to negative market sentiment and uncertainty in the global economy. In March, price trend was reversed. In April, prices remained unchanged due to stable market conditions. In May, rubber prices continued to increase due to supply constraints amid speculation that farmers are holding back stocks in anticipation of higher prices.



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#### 80 100 Dollar /Rs Euro /Rs +2% ·2% +5 3% 2% +5 0% 75 90 0% +1 0% +1% +2% 0% ·2% 0% 0% 80 70 65 70 May-18 Jul-18 Jul-18 Sep-18 Nov-18 Jan-19 Mar-19 May-19 May-18 Sep-18 Nov-18 Jan-19 May-19 Mar-19 80 110

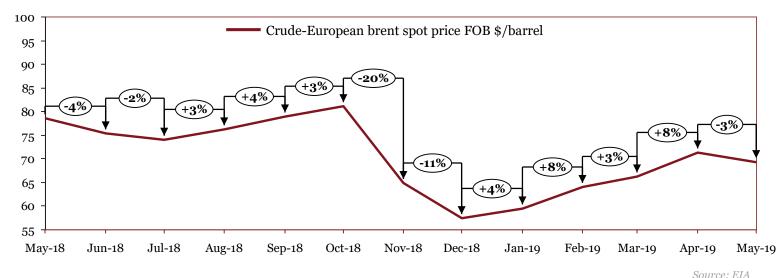


Source: Reserve Bank of India

	Monthly Average Prices (Rs)												
	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
\$	68	68	69	69	72	74	72	71	71	71	70	69	70
£	91	79	80	80	84	85	82	80	81	81	79	78	78
€	80	90	91	90	94	96	93	90	91	93	92	78	78
¥	62	62	62	63	64	65	64	63	65	65	63	78	78

**Forex Movement** 

### Crude Oil



Monthly Average Prices (\$/barrel)													
	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
	79	75	74	75	79	81	65	57	59	64	66	71	69

### **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 -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)		
Steel Scrap	NA	Crisil - Heavy melting (excl. GST)		
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	<b>Ferro-molybdenum (China-60% EXW)</b> <i>Previously: Ferro-molybdenum (65%min</i> <i>in warehouse Rotterdam, Europe) \$/kg</i>	NA		

### **Commodity Specifications**

Commodity	International	Domestic			
Ferro vanadium	Ferro Vanadium (China -80% FOB) \$/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,								
Palladium	and 99.9% for rhodium								
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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PwC contacts for ACMA Knowledge Partnership

- Kavan Mukhtyar, Partner & Leader-Automotive, PwC India kavan.mukhtyar@in.pwc.com / +912261198735
- Somnath Chatterjee, ACMA Knowledge Partnership Manager –somnath.chatterjee@in.pwc.com / +91124620724

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