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Commodity price monitor July -19

Prepared for ACMA

Strictly private and confidential

August 2019





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Commodity trend dashboard

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

Calendar Year 19-20: Qvs. Qupdate

Commodity	Region	Q-o-Q Up	Q-o-Q	Down
ron & Steel	<u> </u>	ii		
Iron Ore	International	18%		
	Domestic low grade			
	Domestic high grade			
Pig Iron	International		-1%	V
	Domestic		-5%	▼
Stainless steel	Domestic		-1%	V
	Domestic		-1%	V
Wire rod	International		-5%	_
	Domestic		-9%	_
Steel Billets	International		0%	
	Domestic		-10%	_
Hot-rolled coils	International	1%		
	Domestic		-7%	_
Cold-rolled coils	International	o% ^		
	Domestic		-7%	_
Steel Scrap	Domestic		-12%	_
EN8	Domestic		-1%	_
20MnCr5	Domestic		-1%	_
erro-alloys				
Ferro titanium	International		-10%	_
Ferro chrome	International		-10%	_
	Domestic		-9%	_
Ferro molybdenum	International	2%		
Ferro vanadium	International		-16%	_
Ferro silicon	International	4%		
	Domestic		-4%	_

ND: Not disclosed by the source

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

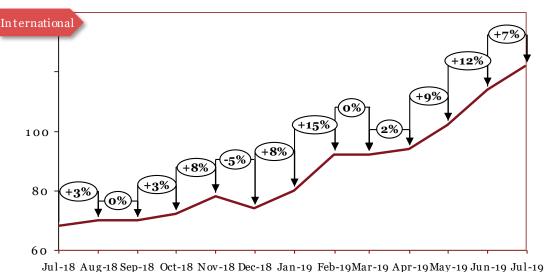
Calendar Year 19-20: Qvs. Qupdate

Commodity	Region	Q-o-(Q Up	Q-o-Q	Down
a se Metals	<u>:</u>			······································	
Aluminum	International	0.0%	_		
	Domestic	13%	_		
Copper	International			-3%	_
	Domestic	4%	A		
Zinc	International			-12%	V
	Domestic			-1%	_
Nickel	International	10%	A		
	Domestic	13%	A		
Tin	International			-9%	V
	Domestic			-10%	V
Magnesium	International			-6%	V
recious Metals					
Platinum	International			0%	•
Palladium	International	11%	A		
Rhodium	International	15%	A		
olymers					
Low density polyethylene (LDPE)	International			-3%	•
	Domestic			-6%	V
Polypropylene (PP)	International			-3%	V
	Domestic			-4%	_
Rubber	Domestic	8%	_		
Currency Exchange					
Dollar	International			-1%	_
Pound	International			-2%	_
Euro	International			-4%	_
Yen	International			-1%	_

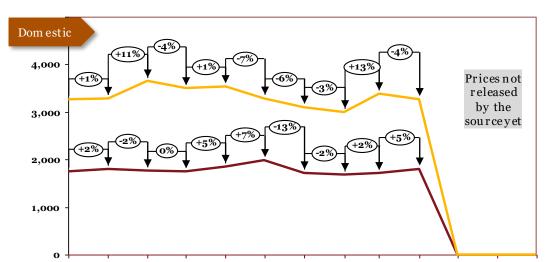
Iron & Steel

Iron	Iron & Steel		
1	Iron Ore	Ģ	
2	Pig Iron	10	
3	Wire Rod	11	
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6	Cold-Rolled (CR) Coils	14	
7	Steel Scrap (Heavy Melting)	15	

Iron Ore



	*Int'l	*Dom	
Period	\$/tonne	Rs/tonne	
		65% & below	65% & above
Jul-18	68	1,757	3,264
Aug-18	70	1,799	3,289
Sep-18	70	1,760	3,648
Oct-18	72	1,759	3,501
Nov-18	78	1.849	3,529
Dec-18	74	1,983	3,291
Jan-19	80	1,723	3,090
Feb-19	92	1,687	2,994
Mar-19	92	1,724.00	3,378.00
Apr-19	94	1,807.00	3,258.00
May-19	102	-	-
-	{		



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

114

122

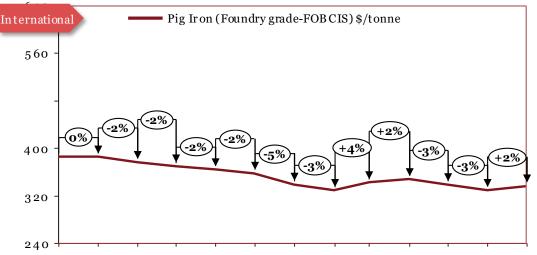
Jun-19

Jul-19

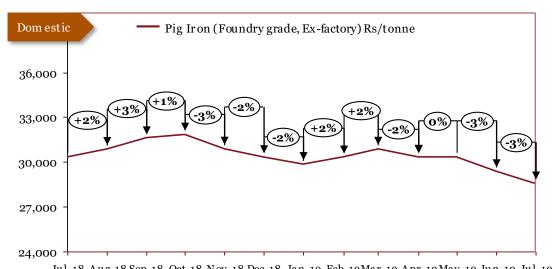
Outlook

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. Domestic prices of iron ore increased on the back of increasing prices of inputs such as coking coal. In April, international iron ore prices continued to rise on account of supply disruptions from key mines in Brazil and Australia and China's fiscal stimulus seen as strengthening steel consumption. In May, supply disruptions from Brazil's Vale mines continued leading to diminished inventories globally pushing up international prices. In June, Australian suppliers cut down their exports forecast due to bad-weather conditions stemming from cyclone Veronica, pushing up global prices. In July, global iron ore prices rose on the back of record high contracts trading as well increased costs for producers stemming from increased environmental regulations. Domestically, prices didn't increase in line with the global surge since Indian producers kept priceslow to ensure competitive exports (export duty of 30% levied on 58% & above Fe fines from India).

Pig Iron



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



Monthly Average Prices				
Period	*Int'l	*Dom		
	\$/tonne	Rs/tonne		
Jul-18	385	30,350		
Aug-18	385	30,850		
Sep-18	376	31,650		
Oct-18	370	31,850		
Nov-18	363	30,850		
Dec-18	357	30,350		
Jan-19	339	29,850		
Feb-19	330	30,350		
Mar-19	342	30,850		
Apr-19	348	30,350		
May-19	339	30,350		
Jun-19	330	29,350		
Jul-19	336	28,550		

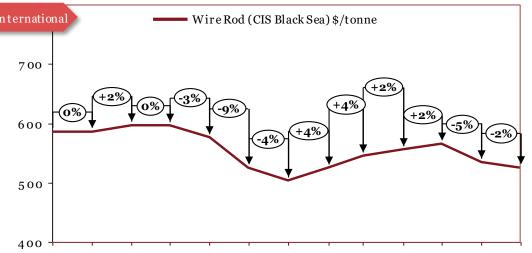
Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19Mar-19 Apr-19May-19 Jun-19 Jul-19 *The actual prices may vary depending on Source: Crisil *City, player, grade etc.

Source: Crisil

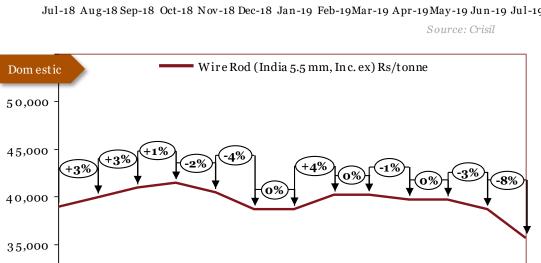
Outlook

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 raw material 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. In June, muted demand from foundries making automobiles & industrial molds let to slipping of domestic prices. Internationally, there was low buying activity, especially in the US which accounts for 50% of global supply, since buyers booked high tonnages in May itself. In July, global pig iron prices increased because of reduced availability in the market as producers cut volumes due to lack of raw materials. Domestically, prices decrease due to reduced demand and rising inventory levels.

Wire Rod



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



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

Monthly Average Prices			
Period	Period ^*Int'l *Dom		
	(\$/tonne)	(Rs/tonne)	
Jul-18	587	38,944	
Aug-18	587	39,944	
Sep-18	597	40,944	
Oct-18	597	41,444	
Nov-18	576	40,444	
Dec-18	525	38,744	
Jan-19	504	38,644	
Feb-19	525	40,144	
Mar-19	545	40,144	
Apr-19	556	39644	
May-19	566	39644	
Jun-19	535	38644	
Jul-19	525	35644	

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

Outlook

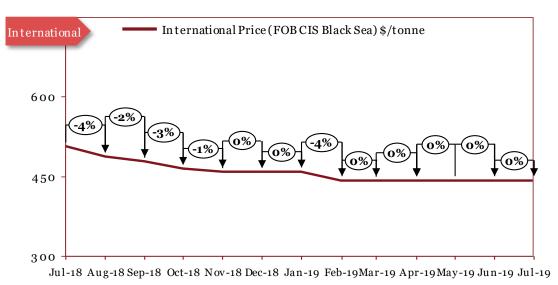
In September, domestic prices increased led by healthy domestic demand and rise in raw material costs. In October, prices increased during the month led by healthy domestic demand, currency depreciation, and rise in raw material costs. In November, domestic prices fell owing to sluggish demand sentiment. 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. In June, international and domestic prices declined due to lower demand in the market stemming from the on set of the monsoon season. In July, international and dom estic mills lowered prices of wire rod fearing demand drops stemming from a global growth slowdown.

Source: Crisil

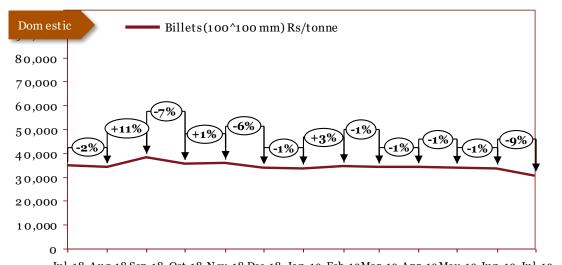
^Prices have been retrospectively revised by the source due to change in base year

30,000

Steel Billets



Monthly Average Prices			
Period	Period ^*Int'l		
	(\$/tonne)		
Jul-18	507	35,050	
Aug-18	487	34,300	
Sep-18	479	38,200	
Oct-18	465	35,667	
Nov-18	459	35,850	
Dec-18	459	33,833	
Jan-19	459	33,467	
Feb-19	442	34,633	
Mar-19	442	34,333	
Apr-19	442	34100	
May-19	442	33867	
Jun-19	442	30533	
Jul-19	442	33400	



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

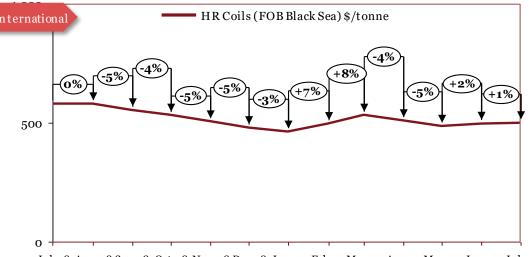
Source: Crisil

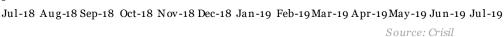
Outlook

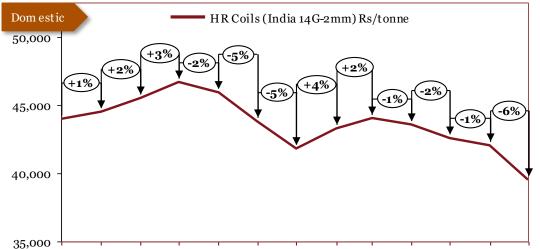
In August, domestic prices continued to fall. In September, domestic prices increased primarily owing to increased off-take of medium size mills, lower inventories coupled with elevated input material costs. In October, billet prices experienced decline owing to weaker domestic demand. In November, prices 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. In June, international and domestic prices remained almost stagnant owing to unchanged demand scenario in the domestic & international markets. In July, domestic prices decreased due to weak demand as a result of slow infrastructure & construction activity. International prices remained flat, despite decreased demand, owing to increase in the prices of inputs.

^International prices changed due to change in the grade

Hot-Rolled (HR) Coils







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

Monthly Average Prices		
Period	*Int'l	^*Dom
	(\$/tonne)	(Rs/tonne)
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
Jun-19	496	42050
Jul-19	501	39550

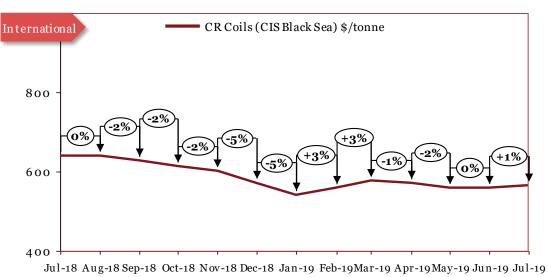
*The actual prices may vary depending on city, player, grade etc.

Outlook Source: Crisil

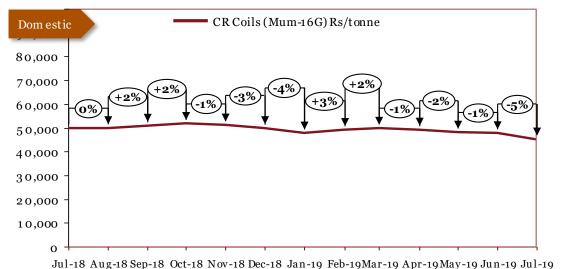
In January 2019, international HR coil prices declined owing to weak demand. On domestic front, prices declined amid cost effective imports and bearish export market. In February 2019, international prices increased due to increase in raw material prices. Domestic prices increased in line with international prices. In March, temporary production cuts in China led to higher international prices. In line with International prices, domestic prices increased led by healthy domestic demand. In the month of April 2019, international prices declined on back of muted demand. In line with International prices, domestic prices declined led by 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). In June, international prices increased marginally due to production curbs in China (to reduce emissions) and weakened international demand cancelling each other out. On the domestic front, demand weakened slightly due to buyers postponing purchases to after the government's budget announcement. In July, domestic prices declined due to the continued slowdown in sectors that are major consumers of steel. Internationally, the demand scenario remained stable for steel, as reflected in the prices.

Monthly Average Prices

Cold-Rolled (CR) Coils



reriou	"IIICI	Doni
	(\$/tonne)	(Rs/tonne)
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



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

560

560

566

May-19

Jun-19

Jul-19

Source: Crisil.

Source: Crisil

Outlook

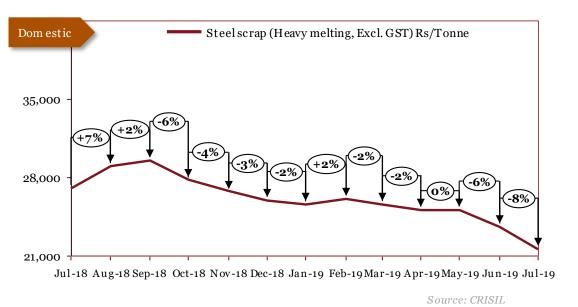
In November, international and domestic CR coil prices declined followed trend of declining HR prices. In December, international indexed CR coil prices declined in December 2018 on back of declining international HR prices. In January 2019, prices continued declining trend. In February, both international 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 declined during the month, mirroring HR prices trend. In May, prices declined both internationally and domestically due to declining HR prices. In June, international prices remained the same due to unchanged demand & supply. Domestically, demand weakened slightly due to buyers postponing purchases to after the government's budget announcement. In July, domestic prices declined due to the continued slowdown in sectors that are major consumers of steel. Internationally, the demand scenario remained stable for steel, as reflected in the prices.

48250

47750

45250

Steel Scrap (Heavy Melting)



Monthly Average Prices	
Period *Dom	
	(Rs/Tonne)
Jul-18	27000
Aug-18	29000
Sep-18	29500
Oct-18	27750
Nov-18	26750
Dec-18	25950
Jan-19	25550
Feb-19	26050
Mar-19	25550
Apr-19	25050
May-19	25050
Jun-19	23550
Jul-19	21550

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

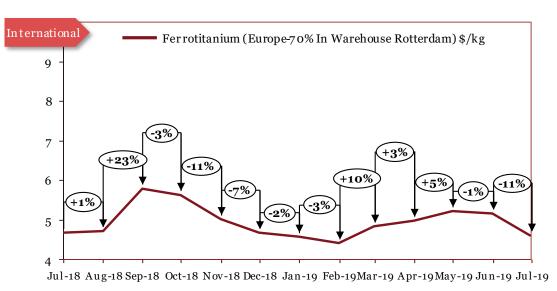
Outlook

Dom estic 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 infrast ructure 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. In June, scrap prices dropped due to low exports demand from countries such as Turkey which is the largest buyer of steel scrap. In July, scrap prices decreased due to a sustained slowdown in demand along with competition from better quality scrap imports.

Ferro-alloys

Ferro	erro-alloys 1	
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 Allov Steel (Forging)	24

Ferro titanium



Grade specifications changed from Metal Bulletin to Asian Metals Source: Bloomberg

Monthly Average Prices	
Period ^*Int'l	
	(\$/kg)
Jul-18	4.66
Aug-18	4.7
Sep-18	5.78
Oct-18	5.61
Nov-18	5.00
Dec-18	4.66
Jan-19	4.56
Feb-19	4.41
Mar-19	4.83
Apr-19	4.97
May-19	5.21
Jun-19	5.16
Jul-19	4.60

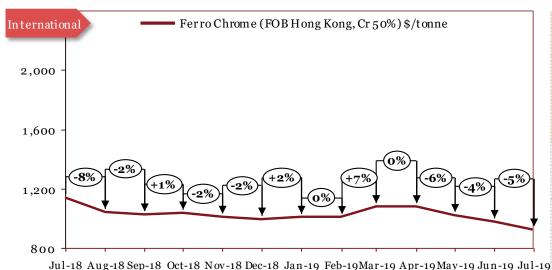
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In June, prices trended marginally downward due to fears of weakening demand from the European steel market. In July, poor demand from major markets such as Europe pushed prices down significantly.

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

Ferro chrome



Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
Jul-18	1,147	77,000
Aug-18	1,044	72,000
Sep-18	1,027	74,000
Oct-18	1,036	83,500
Nov-18	1,010	78,500
	{	

Dom estic	Fer ro Chrome (Cr:60%, Ex Fac) Rs/tonne	
125,000 -		
100,000 -	-6%) +3%	
75,000 -	-6%) +3% -1% (-5%) -5% (4%)	

78,500
70,000
68,500
70,500
73,000
72000
68500
65000
62500

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

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

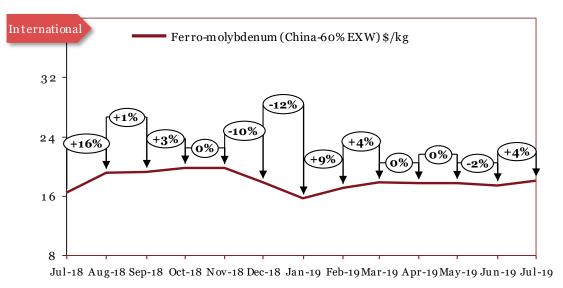
Outlook

International in dex 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. In June, domestic & international prices of ferro-chrome continued to decline owing to declining stainless steel production globally. In July, ferro-chrome prices fell both globally & domestically due to a 2.5% reduction (by volume) in production of stainless steel year-on-year.

Source: Crisil

Source: Crisil

Ferro molybdenum



Grade specifications changed from Metal Bulletin to Asian Metals
Source: Bloomberg

Monthly Average Prices	
Period *^Int'l	
	(\$/kg)
Jul-18	16
Aug-18	19
Sep-18	19
Oct-18	20
Nov-18	20
Dec-18	18
Jan-19	16
Feb-19	17
Mar-19	18
Apr-19	18
May-19	18
Jun-19	18
Jul-19	17

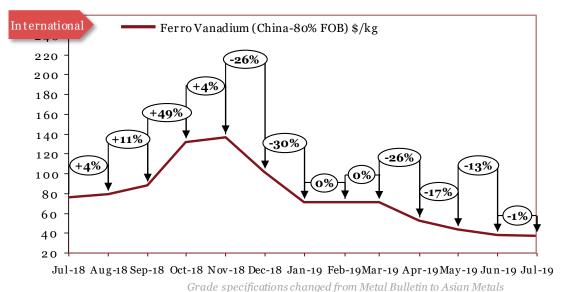
*The actual prices may vary depending on city, player, grade etc.

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. In June, prices decreased due to easing demand from major steel producers such as China. In July, prices increased due to limited availability of raw materials such as molybdenum concentrate.

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

Ferro vanadium



Monthly Average Prices	
Period *Int'l	
	(\$/kg)
Jul-18	76
Aug-18	79
Sep-18	88
Oct-18	131
Nov-18	137
Dec-18	101
Jan-19	71
Feb-19	71
Mar-19	71
Apr-19	52
May-19	43
Jun-19	38
Jul-19	37

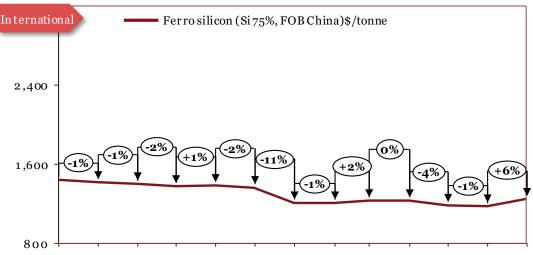
*The actual prices may vary depending on city, player, grade etc.

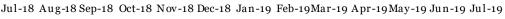
Outlook

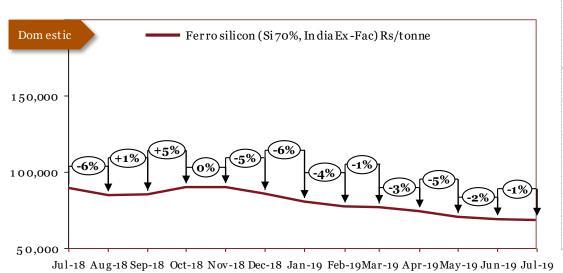
In September, global prices continued with increasing trend due to global supply constraints. In October, prices increased due to the impending imposition of stringent rebar standards in China together with tight vanadium supply globally. Since November 2018, ferro-vanadium prices have witnessed declining 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. In June, prices continued to fall sharply due to weak summer demand in China & Europe. In July, Ferro Vanadium prices decreased marginally due to almost stable market conditions compared to June.

Source: Bloomberg

Ferro silicon







Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
Jul-18	1,442	89,700
Aug-18	1,415	84,500
Sep-18	1,401	85,500
Oct-18	1,373	90,000
Nov-18	1,380	90,200
Dec-18	1,359	85,700
Jan-19	1,208	80,700
Feb-19	1,201	77,200
Mar-19	1,228	76,700
Apr-19	1,228	74,200
May-19	1,180	70,700
Jun-19	1,173	69,200
Jul-19	1,242	68,400

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

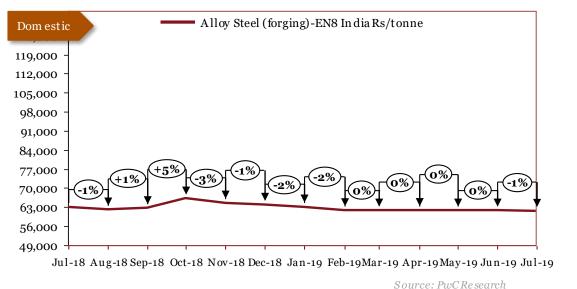
Source: Crisil

Source: Crisil

Outlook

International ferro silicon prices declined in January 2019 owing to muted demand, especially in China. Many ferro silicon suppliers in China have shifted to the production of silicon carbide due to low 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 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 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. In June, prices dropped due to additional supply in markets which resulted in producers lowering their prices. In July, international prices increased due to reduced supply stemming from plant maintenance in major production hubs. Domestically, the demand scenario remained comparable to June, as reflected in the prices.

EN8 Alloy Steel (Forging)



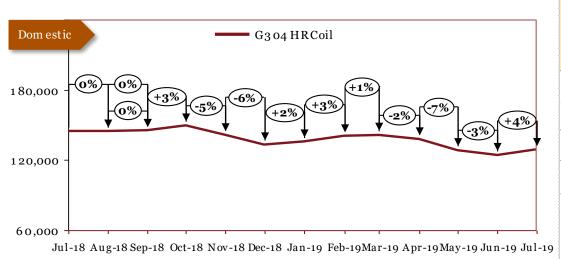
Monthly Average Prices	
Period	*Dom
	(Rs/tonne)
Jul-18	63,200
Aug-18	62,300
Sep-18	62,800
Oct-18	66,200
Nov-18	64,500
Dec-18	64,000
Jan-19	63,000
Feb-19	62,000
Mar-19	62,000
Apr-19	62,000
May-19	62,000
Jun-19	62,000
Jul-19	61,500

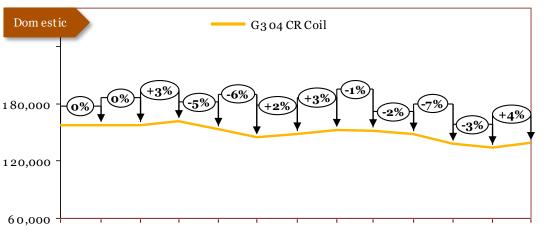
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In June, prices remain unchanged once again, stemming from stable market conditions. In July, prices declined marginally due to a lower growth forecast in India.

Stainless Steel





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

Monthly Domestic Average Prices *G304 HR *G304 CR **Period** (Rs/tonne) (Rs/tonne) Jul-18 145,200 156,750 Aug-18 145,200 156,750 Sep-18 145,700 157,250 Oct-18 149,700 161,250 Nov-18 141,700 153,250 Dec-18 133,200 144,750 Jan-19 136,200 147,750 Feb-19 146,700 152,250 Mar-19 141,700 151,250 Apr-19 138,200 147,750 May-19 128,200 137,750 Jun-19 124,200 133,750 Jul-19 129,200 138,750

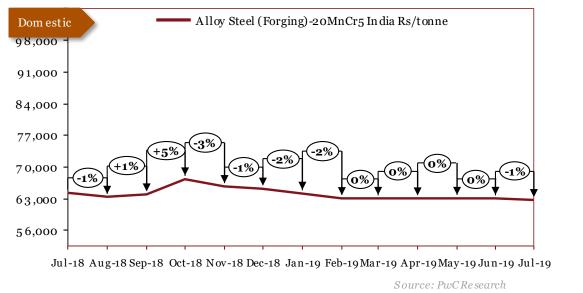
*The actual prices may vary depending on city, player, grade etc.

Source: PwCResearch

Outlook

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. In June, prices declined due weak demand scenario and fall in price of inputs such as ferro-alloys. In July, prices increased as producers cut down supply and costs of vital inputs, such as coking coal, in creased.

20MnCr5 Alloy Steel (Forging)



Monthly Average Prices		
Period	*Dom (Rs/tonne)	
Jul-18	64,200	
Aug-18	63,300	
Sep-18	63,800	
Oct-18	67,200	
Nov-18	65,500	
Dec-18	65,000	
Jan-19	64,000	
Feb-19	63,000	
Mar-19	63,000	
Apr-19	63,000	
May-19	63,000	
Jun-19	63,000	
Jul-19	62,500	

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

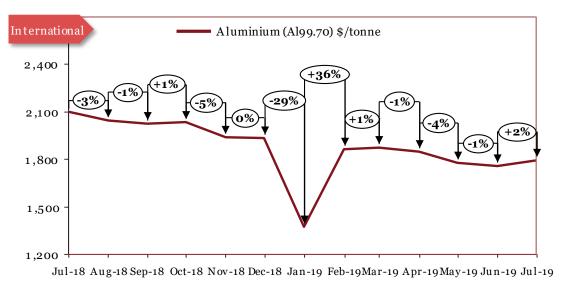
Outlook

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. In June, prices continued to hold stable. In July, prices declined marginally due to a lower growth forecast in In dia.

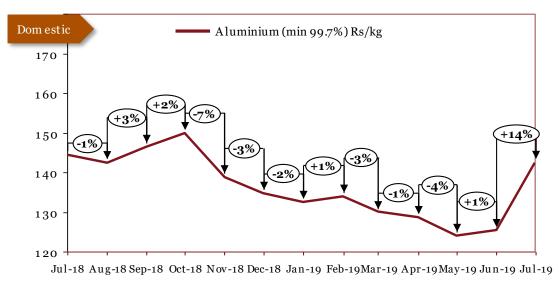
Base Metals

Base Metals		25
16	Aluminium	26
17	Copper	27
18	Zinc	28
19	Lead	29
20	Nickel	30
21	Tin	31
22	Magnesium	32

Aluminium



Source: LME



Source: MCX*
*Source updated in July 2019

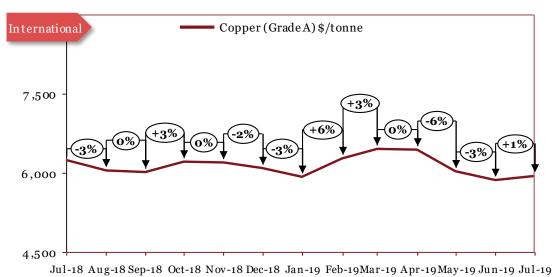
Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
Jul-18	2,098	144	
Aug-18	2,045	142	
Sep-18	2,023	146	
Oct-18	2,034	150	
Nov-18	1,937	139	
Dec-18	1,931	135	
Jan-19	1,371	132	
Feb-19	1,859	134	
Mar-19	1,872	130	
Apr-19	1,849	129	
May-19	1,775	124	
Jun-19	1,754	125	
Jul-19	1,793	142	

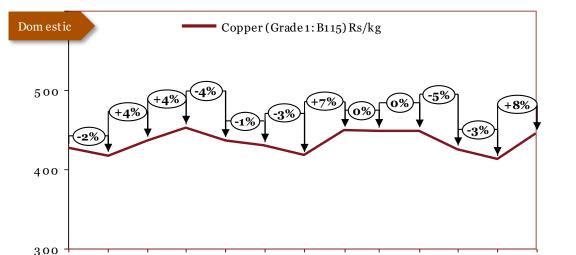
*The actual prices may vary depending on city, player, grade etc.

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. In June, international prices declined slightly due to weak manufacturing data from top economies. Domestically, aluminium prices increased globally due to curbs on exports of a luminium scrap by China which tightened supply in the market.

Copper





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

Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
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	
Jun-19	5,868	413	
Jul-19	5,939	445	

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

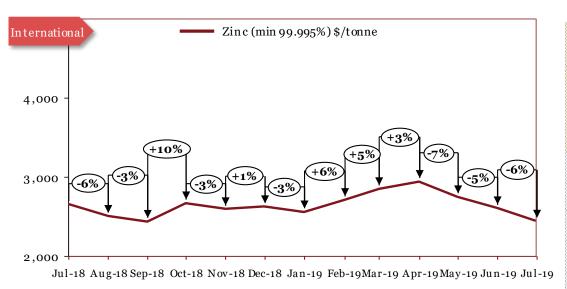
Source: MCX

Source: LME

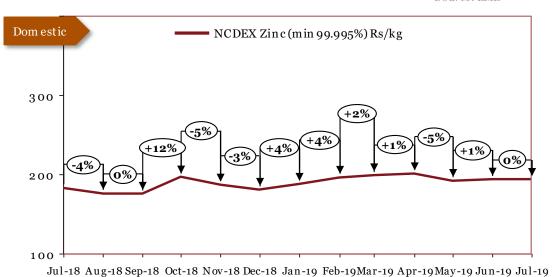
Outlook

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. In June, international Copper prices fell due to weak production data released by China and a threat of tariffs imposed by the US on Mexico. Dom estically, prices fell due to slackened demand from consuming industries. In July, domestic prices increased due to higher demand in the spot market. Globally, prices increased marginally due to stable market conditions.

Zinc







Source: MCX*

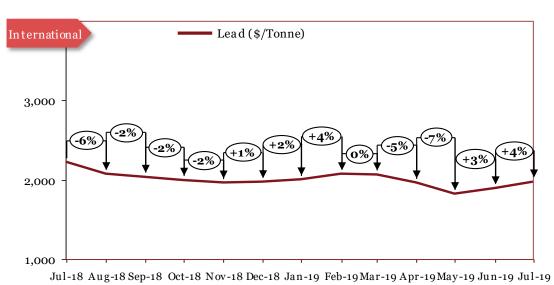
Monthly Average Prices *Int'l *Dom **Period** (\$/tonne) (Rs/kg) Jul-18 2,658 183 Aug-18 2,510 175 Sep-18 176 2,433 **Oct-18** 2,671 197 **Nov-18** 187 2,592 Dec-18 181 2,625 Jan-10 188 2,558 Feb-19 2,702 196 Mar-19 2,851 199 Apr-19 201 2,938 **May-19** 192 2,747 Jun-19 2,602 194 Jul-19 2,441 194

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

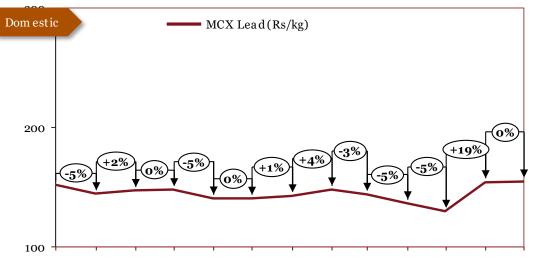
Outlook *Source updated in July 2019

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. In June, international Zinc prices retreated due to rising inventories. In India, prices increased marginally due to an increment in the demand scenario. In July, international zinc prices fell owing to lower demand from major markets. Domestically, prices remained stable on the back of unchanged market conditions.

Lead







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

Source: MCX

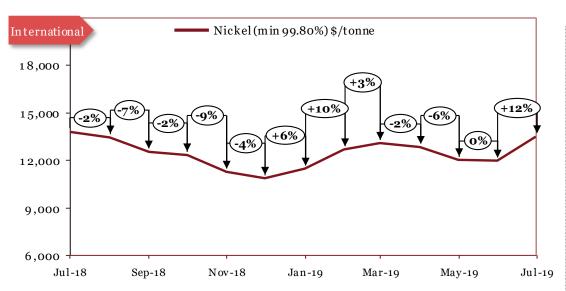
Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
Jul-18	2,224	152	
Aug-18	2,080	144	
Sep-18	2,042	147	
Oct-18	2,001	147	
Nov-18	1,962	140	
Dec-18	1,974	140	
Jan-19	2,004	142	
Feb-19	2,075	148	
Mar-19	2,070	143	
Apr-19	1,966	136	
May-19	1,830	130	
Jun-19	1,891	154	
Jul-19	1,974	155	

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

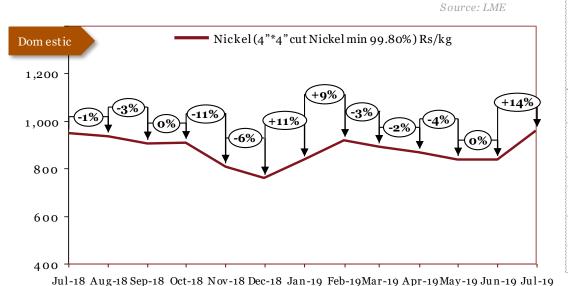
Outlook

International lead prices are almost back to July 2018 levels after a slump in prices in previous months owing to high international inventories. Domestically, lead prices are back to 2018 July 2018 levels after a sharp demand uptake in May. In July, domestic market conditions remained stable which led to stagnant prices. Internationally, production cuts on the back of inventory correction measures by producers saw prices increase.

Nickel



Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
Jul-18	13,768	948	
Aug-18	13,429	936	
Sep-18	12,524	906	
Oct-18	12,323	909	
Nov-18	11,249	806	
Dec-18	10,833	759	
Jan-19	11,452	839	
Feb-19	12,647	918	
Mar-19	13,056	891	
Apr-19	12,815	869	
May-19	11,995	837	
Jun-19	11,967	839	
Jul-19	13,459	960	



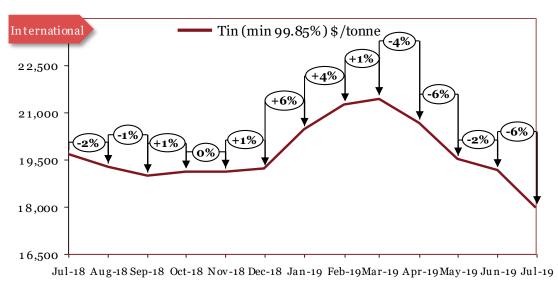
Source: MCX*
*Source updated in July 2019

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

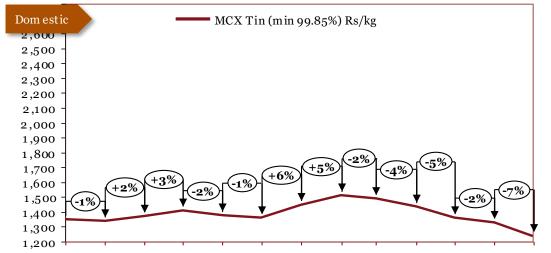
Outlook

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 sentimen towing to 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. In June, both international & domestic Nickel prices remain unchanged due to a balance of demand, supply and in ventory levels. In July, Nickel prices increased sharply domestically as well as internationally due to low global inventory, which is almost at a 7 year low.

Tin







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

Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
Jul-18	19,689	1,353	
Aug-18	19,268	1,342	
Sep-18	18,990	1,372	
Oct-18	19,117	1,408	
Nov-18	19,130	1,376	
Dec-18	19,232	1,361	
Jan-19	20,471	1,445	
Feb-19	21,257	1,514	
Mar-19	21,433	1,490	
Apr-19	20,671	1,436	
May-19	19,520	1,364	
Jun-19	19,163	1,331	
Jul-19	17,981	1,237	

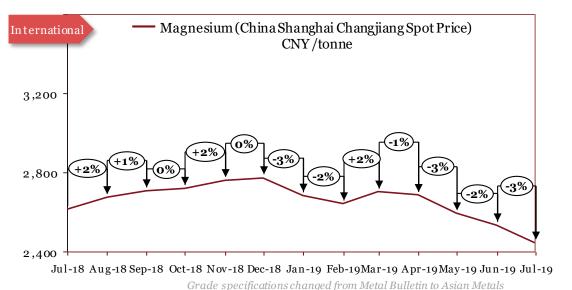
*The actual prices may vary depending on city, player, grade etc.

Source: MCX

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. In June, international and domestic Tin prices continued to slide owing to weaker demand from consuming industries. In July, international and domestic prices have continued to slide due to high inventory levels, stemming from a poor global demand scenario.

Outlook

Magnesium



Monthly Average Prices		
Period	*Int'l (\$/tonne)	
Jul-18	2,612	
Aug-18	2,675	
Sep-18	2,708	
Oct-18	2,719	
Nov-18	2,760	
Dec-18	2,770	
Jan-19	2,684	
Feb-19	2,643	
Mar-19	2,705	
Apr-19	2,688	
May-19	2,595	
Jun-19	2,532	
Jul-19	2,445	

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

Outlook

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. In June, prices fell due to oversupply in the market from Turkey. In July, prices continued to slide due to lower demand from international markets.

Source: Bloomberg

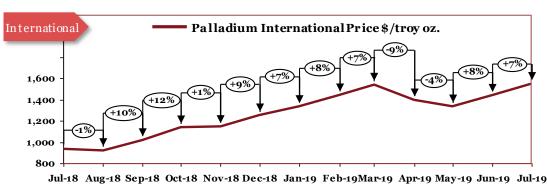
^International prices changed due to change in grades at the source

Precious Metals

Precious	Metals	33
	Precious Metals	34

Precious Metals







Source: Johnson Matthey

Monthly Average Prices (\$/Oz) Pt Pd Period Rh 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 2,616 1,441 Mar-19 845 1,542 3,144 Apr-19 891 1399 3001 May-19 838 1340 2900 Jun-19 813 1446 3157 Jul-19 847 3487 1552

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

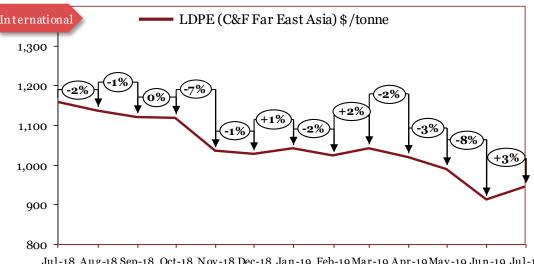
Outlook

Increase in palladium demand due to a forementioned 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. In June, platinum prices fell and palladium & rhodium prices increased as auto-manufacturers decided to favour the 2 more expensive metals due to improved emissions results. In July, platinum prices increased due to supply disruptions from mines in South Africa. Demand for palladium and rhodium continued to increase as stricter emissions norms cause manufacturers to look at more effective albeit expensive metals

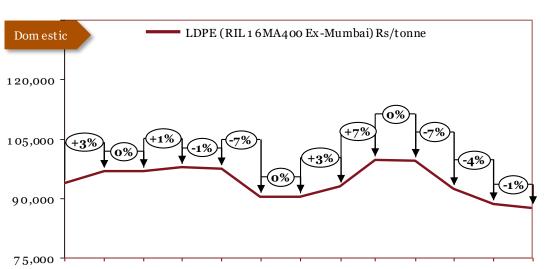
Polymers & Rubber

Polymers & Rubber		35
24	Low density polyethylene (LDPE)	36
25	Polypropylene (PP)	37
26	Rubber	38

Low density polyethylene (LDPE)



Jul-18 Aug-18 Sep-18	Oct-18 Nov-18 Dec-18	Jan-19	Feb-19 Mar-19 Ap	r-19May-19 Jun-19 J	ul-19
				Source: Crisil	



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

Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
Jul-18	1,159	93,819	
Aug-18	1,137	96,819	
Sep-18	1,121	96,819	
Oct-18	1,118	97,927	
Nov-18	1,036	97,378	
Dec-18	1.028	90,411	
Jan-19	1.041	90,411	
Feb-19	1.024	92,911	
Mar-19	1,041	99,611	
Apr-19	1,020	99,468	
May-19	989	92,325	
Jun-19	913	88,579	
Jul-19	944	87,460	

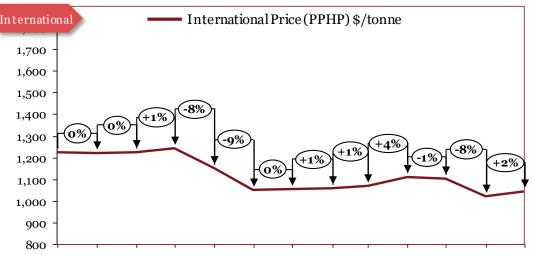
*The actual prices may vary depending on city, player, grade etc.

Source: Reliance Industries Ltd.

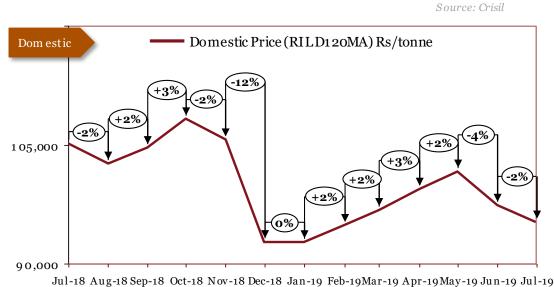
Outlook

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 decreased due to muted demand, a contributing factor to which was due to Chinese lunar new year holidays. In March, 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. In June, new manufacturing units scaled up production resulting in an oversupply in the market. This has caused prices to fall both globally & domestically. In July, international prices increased slightly due to a rollover for ethylene contract prices in the futures market. Domestically also, prices remained stable due to unchanged demand-supply conditions in the market.

Polypropylene (PP)



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



Monthly Average Prices							
Period	*Int'l	*Dom					
	(\$/tonne)	(Rs/tonne)					
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	1,104	101,567					
Jun-19	1,020	97,334					
Jul-19	1,043	95,219					

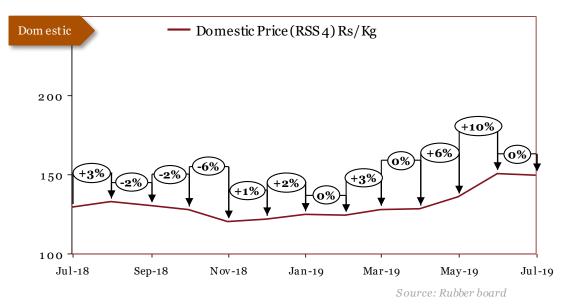
*The actual prices may vary depending on city, player, grade etc.

Source: Reliance Industries Ltd.

Outlook

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 nouptick 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. In June, PP prices declined internationally and globally as plants shut for maintenance came back on-stream increasing supply in markets. In July, international PP prices recovered slightly after the slump in June on the back of decreasing inventories as capacity was rectified in July. Domestically, prices decreased due to a continued slump in domestic dedaand.

Rubber



Monthly Average Prices						
Period	*Dom					
	(Rs/kg)					
Jul-18	129					
Aug-18	133					
Sep-18	130					
Oct-18	128					
Nov-18	120					
Dec-18	122					
Jan-19	125					
Feb-19	124					
Mar-19	128					
Apr-19	128					
May-19	136					
Jun-19	150					
Jul-19	150					

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

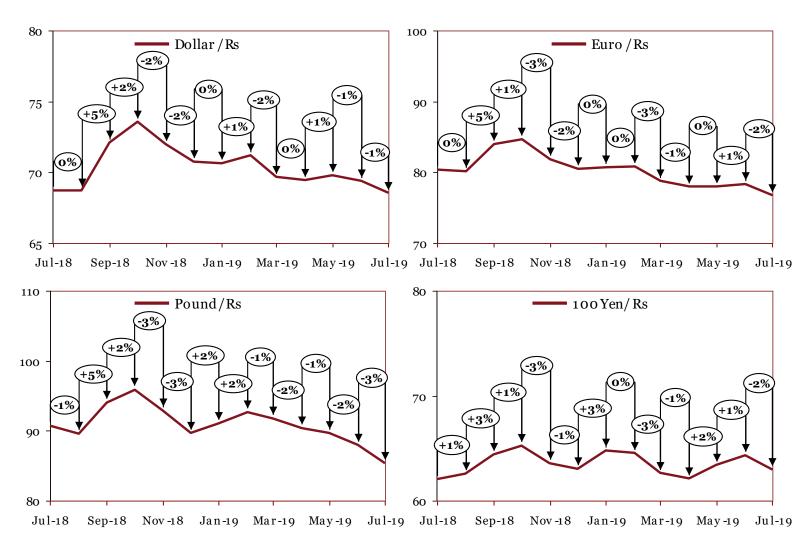
Outlook

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 improved market conditions from last month. In January 2019, growth trend in prices was maintained due 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. In June, rubber prices increased substantially due to high demand of domestic rubber stemming from high import duties on rubber In July, rubber prices remained unchanged owing to stable market conditions.

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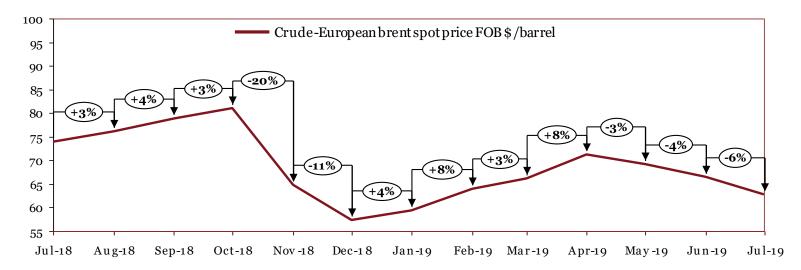
Forex Movement



Source: Reserve Bank of India

Monthly Average Prices (Rs)																						
	Ju	l-18	Auş	g-18	Se	p-18	Oc	t-18	Nov	v-18	De	ec-18	Ja	n-19	Fel	b-19	Ma	ar-19	Apr-19	May-19	Jun-19	Jul-19
\$	€	69	€	69	€	72	€	74	€	72	€	71	€	71	€	71	€	70	69	70	69	69
£	€	80	€	80	€	84	€	85	€	82	€	80	€	81	€	81	€	79	78	78	78	77
€	€	91	€	90	€	94	€	96	€	93	€	90	€	91	€	93	€	92	78	78	78	77
¥	€	62	€	63	€	64	€	65	€	64	€	63	€	65	€	65	€	63	78	78	78	77

Crude Oil



Source: EIA

Monthly Average Prices (\$/barrel)																					
Jul	-18	Au	g-18	Sep)-18	Oc	t-18	Nov-	-18	Dec	-18	Ja	n-19	Fel	b-19	Ma	r-19	Apr-19	May-19	Jun-19	Jul-19
€	74	€	75	€	79	€	81	€	65	€	57	€	59	€	64	€	66	71	69	67	63

Commodity Specifications

Commodity	International	Domestic
Iron Ore	IOECI635 Index (CIFChina) - (Fe63.5%) CIFChina	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	Ferro-molybdenum (China-60% EXW) Previously: Ferro-molybdenum (65% min in warehouse Rotterdam, Europe) \$/kg	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, MCX (July'19 onwards) -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 •ISO752:2004 - ZN-1 grade •ASTM B6-12 - LME grade •GB/T 470-2008 - Zn99.995 grade	NCDEX, MCX (July'19 onwards) - 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
Lead	LME - Lead of 99.97% purity (minimum) conforming to BS EN 12659:1999 - GB/T 469/2005	MCX - Lead ingots with minimum purity of 99.97%
Nickel	LME - Nickel of 99.80% purity (minimum) conforming to B39-79 (2013) - GB/T 6516-2010	NCDEX, MCX (July'19 onwards) - 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 tiningot 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 pur and 99.9% for rhodium	rities of 99.95% for platinum and palladium,
Palladium	and 99.9% for modium	
Rhodium		
Low density polyethylene (LDPE)	International price (C&FFEA) \$/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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