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Commodity price monitor May -20

Prepared for ACMA

Strictly private and confidential

June 2020





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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
Iron & Steel			
Iron Ore	International	1%	
	Domestic low grade		
	Domestic high grade		
Pig Iron	International		-12%
	Domestic		-4%
Stainless steel	Domestic	0.5%	
	Domestic	0.5%	
Wire rod	International		-4%
	Domestic	0%	
Steel Billets	International		-12%
	Domestic		-1%
Hot-rolled coils	International		-22%
	Domestic		-1%
Cold-rolled coils	International		-12%
	Domestic		-1%
Steel Scrap	Domestic		-6%
EN8	Domestic	2%	
20MnCr5	Domestic	2%	
Ferro-alloys			
Ferro titanium	International	N/A	:
Ferro chrome	International	1%	:
	Domestic		-1%
erro molybdenum	International	N/A	
Ferro vanadium	International	N/A	
Ferro silicon	International		-7%
	Domestic		0%

ND: Not disclosed by the source

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

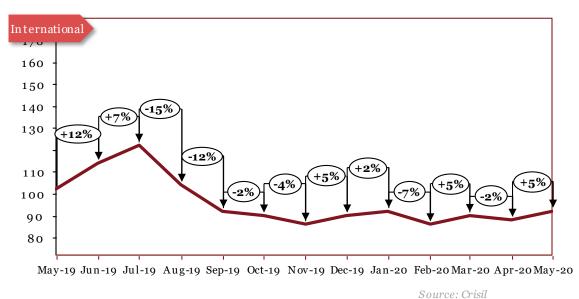
Calendar Year 19-20: Qvs. Qupdate

Commodity	Region	Q-o-Q Up	Q-o-Q Down
Base Metals			
Aluminum	International		-14% ▼
	Domestic		-5% ▼
Copper	International		-9% ▼
	Domestic		-6% ▼
Zinc	International		-9% ▼
	Domestic		-6% ▼
Lead	International		-11% ▼
	Domestic		-7% ▼
Nickel	International		-6% ▼
	Domestic		-2% ▼
Tin	International		-6% ▼
	Domestic	N/A	
Magnesium	International	N/A	<u>:</u>
Precious Metals			
Platinum	International		-14% ▼
Palladium	International		-12% ▼
Rhodium	International		-21% ▼
Polymers			
Low density polyethylene (LDPE)	International		-11% ▼
	Domestic	N/A	:
Polypropylene (PP)	International		-13.3%
	Domestic	N/A	:
Rubber	Domestic		-13% ▼
Currency Exchange			
Dollar	International	5%	:
Pound	International	4%	
Euro	International	1%	:
Yen	International	6%	

Iron & Steel

Iron	Iron & Steel		
1	Iron Ore	Ģ	
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Iron Ore



	*Int'l	*Dom		
Period	\$/tonne	Rs/tonne		
		65% & below	65% & above	
May-19	102	1,848	3,224	
Jun-19	114	1,822	3,531	
Jul-19	122	1,910	3,611	
Aug-19	104	1,863	3,715	
Sep-19	92	1796	3569	
Oct-19	90	1608	3574	
Nov-19	86	1570	3375	
Dec-19	90	1619	3235	
Jan-20	92	1704	3499	
Feb-20	86	1950	3792	
Mar-20	90	0	0	
Apr-20	88	0	0	

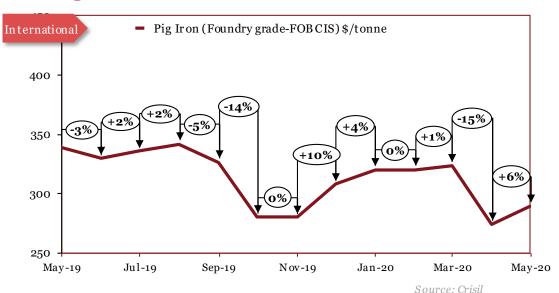
		J		1	1
Dom estic		Sep-19	92	1796	3569
4,500		Oct-19	90	1608	3574
4,000 +10% +2% -0% -6% -6%	Prices not	Nov-19	86	1570	3375
3,500	released by the	Dec-19	90	1619	3235
	sour ce y et	Jan-20	92	1704	3499
3,000		Feb-20	86	1950	3792
2,500		Mar-20	90	0	0
2,000		Apr-20	88	0	0
↓ ↓ ↓ ,		May-20	92	0	0
1,500					
1,000					
May-19 Jun-19 Jul-19 Aug-19 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20	Feb-20 Mar-20 Apr-20 May-	20 *Th to - 1			1:
	Source: Crisil	*The actual p		y vary aepe	

Source: Crisil on city, player, grade etc.

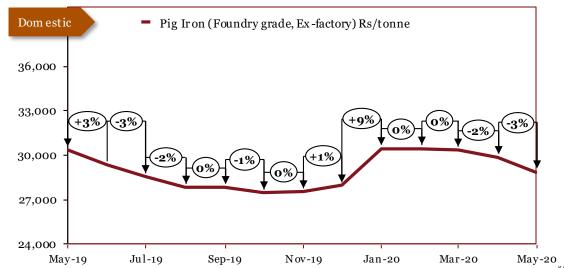
Outlook

In November, international prices continued to fall over import restrictions in China as well as oversupply in the market. Domestically, prices continued their decline. In December, international prices rose as capacity at the Vale mine was capped for safety reasons. Domestically, prices rose on a slow recovery in auto and construction sectors. In January, international prices rose slightly thanks to renewed optimism in China, despite the effects of the coronavirus epidemic toward the end of the month. Domestically, price recovery continued. In February, international prices declined thanks to the coronavirus epidemic in China hurting local demand. In March, international prices rose as Chinese factories resumed production in parts of the country unaffected by the COVID-19 pandemic. In April, international prices declined slightly amid the COVID-19 pandemic, but were supported by low production in Brazil and Australia, alongside steady Chinese demand. In May, prices rose as production was disrupted in Brazil and the Vale as the spread of COVID-19 positive cases caused disruptions. Chinese demand continued to boost the segment.

Pig Iron





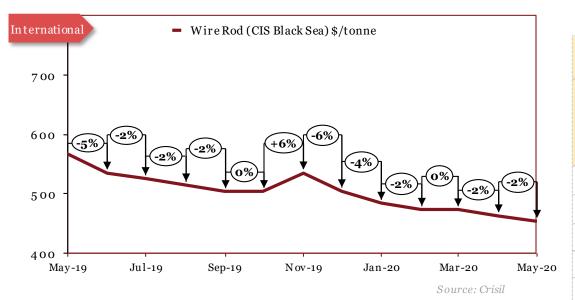


May-20
*The actual prices may vary depending on city, player, grade etc.

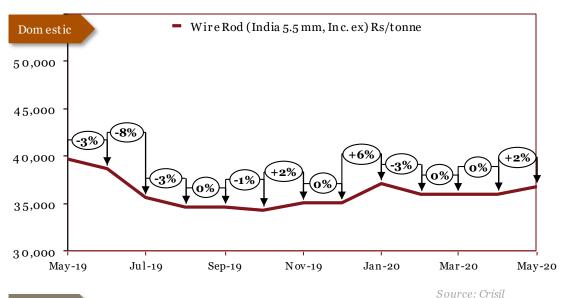
Outlook Source: Crisil

In October, international prices fell considerably owing to weak mill demand and low demand for steel scrap. Domestically, weak exports caused a glut of supply in the market, hurting the price at a time of weak industrial demand. In November, international as well as domestic prices remained constant due to stable market conditions. In December, international prices rose owing to higher scrap prices, along side strong Chinese demand. Domestic prices rose simultaneously. In January, prices continued to rise, with strong demand in China in the early part of the month. Domestic prices rose simultaneously. In February, international as well as domestic prices remained stable. In March, international prices were largely stable as the growth in Chinese demand following the reopening of factories cancelled out the decline in the rest of the world. Domestically prices declined as the COVID-19 pandemic shut down production at factories. In April, international prices fell as lockdown measures caused global industrial demand to fall precipitously. Domestic prices declined on less demand from foundries, partly as a result of the auto industry being shut down. In May, international prices rose as Chinese demand continued to improve, while domestic prices slid further.

Wire Rod



Monthly Average Prices			
Period	^*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
May-19	566	39644	
Jun-19	535	38644	
Jul-19	525	35644	
Aug-19	515	34,644	
Sep-19	504	34,644	
Oct-19	504	34344	
Nov-19	535	35094	
Dec-19	504	35094	
Jan-20	484	37094	
Feb-20	473	35994	
Mar-20	473	35994	
Apr-20	463	35994	
May-20	453	36794	



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

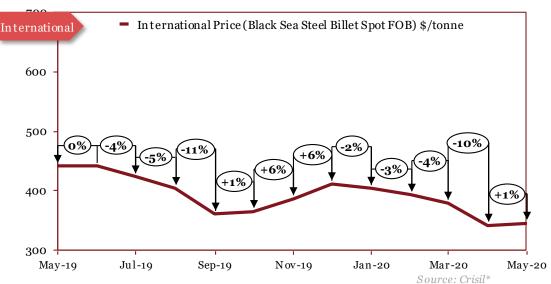
Outlook

In August, mills across the world lowered prices due to continuing weak demand. In India, weakening manufacturing led to a decrease in demand for wire rod. In September, the lowering cost of ferrous scrap, along with weak demand led to a comedown in international prices, while prices remained stable in India. In October, international prices remained stable, while domestic prices fell on weak industrial demand. In November, international as well as domestic prices rose due to higher scrap prices. In December, international prices fell due to lower rebar prices and weak demand while domestic prices remained constant due to stable market conditions. In January, international prices fell on an oversupply of steel in the market, while domestic prices rose after the government imposed country-specific duties on specific markets. In February, international prices declined as the coronavirus lockdown decimated Chinese demand. Domestically, prices fell on reduced demand. In March, prices remained unchanged. In April, international prices declined owing to lower demand from factories. Domestically prices remain unchanged. In May, internal prices fell slightly, domestic prices picked up on the resumption of industrial activity

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

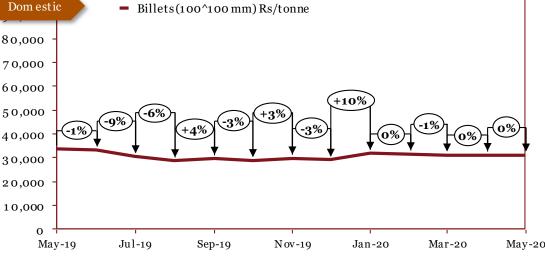
Monthly Average Prices

Steel Billets



·		
Period	^*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
May-19	442	33867
Jun-19	442	30533
Jul-19	424	33400
Aug-19	404	28633
Sep-19	361	29750
Oct-19	366	28967
Nov-19	386	29900
Dec-19	411	29033
Jan-20	404	31800
Feb-20	393	31650
Mar-20	379	31200
Apr-20	342	31200





May-20
*The actual prices may vary depending on city, player, grade etc.

345

Outlook

In August, prices in Southeast Asia's steel billet market declined due to lower prices of scrap and competition from cheap exports. Domestic prices were hurt by the slowdown in manufacturing. In September, international prices fell on account of weak demand, while rising costs for finished long steel products and semi finished materials led to a rise in prices in India. From October to December, International prices began to recover on account of higher demand due to higher scrap prices. In October, domestic prices fell due to weak demand for rebar. In November, domestic prices rose on account of rising seaborne scrap prices. In December, domestic prices fell due to weak demand for steel products like rebar. In January, international prices fell marginally while domestic prices rose on the back of renewed investment in infrastructure and growth in the automobile in dustry. In February, domestic prices remained consistent due to stable market conditions. In February, domestic prices remained stable. In March, domestic prices declined owing to a weaker rupee and the impact of the COV ID-19 pandemic. In April, international prices fell on account of declining demand on account of lockdown measures, while remaining stable domestically. In May, international prices remained stable following the large decline in April, while domestic prices were unchanged.

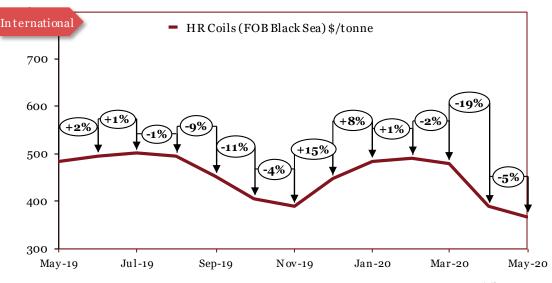
Source: Crisil

^International prices changed due to change in the grade

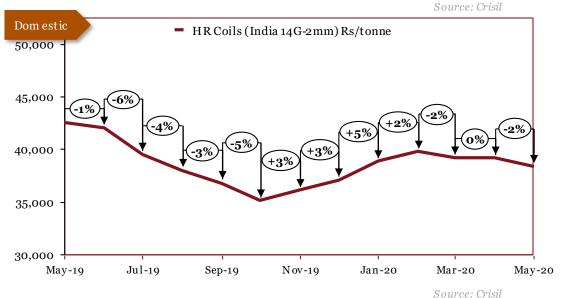
May-20

31200

Hot-Rolled (HR) Coils





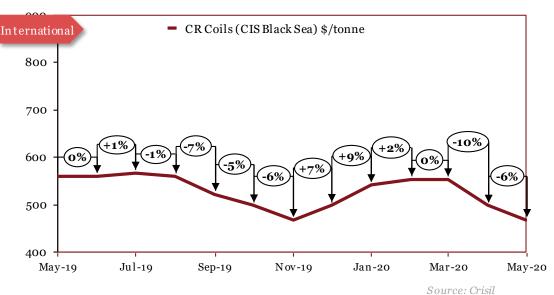


*The actual prices may vary depending on city, player, grade etc.

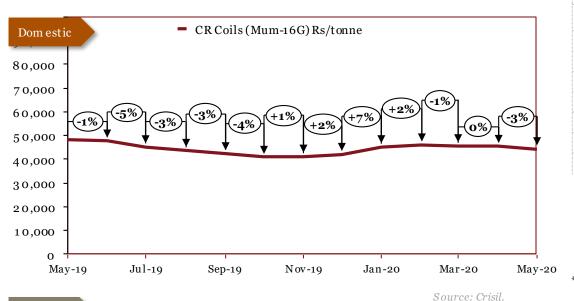
Outlook

In November, international prices fell on account of continued uncertainty regarding the trade war, while domestic prices rose on account of increasing construction activity and infrastructure spending alongside higher automotive manufacturing. In December, international prices rose on recovering demand from infrastructure and automotive sectors, whilst domestic prices rose thanks to stronger export margins. In January, international prices rose thanks to strong demand and high input prices domestic prices continued to rise due to stronger performance from the infrastructure and automobile sectors. In February, international prices saw a deceleration due to the impact of the coronavirus. Domestic prices continued to rise as domestic infrastructure spending and production continued to recover. In March, international prices fell due to uncertainty in the market around the COV ID-19 pandemic. Domestic prices declined thanks to the national lockdown initiated to contain the COV ID-19 pandemic. In April, prices declined as the COV ID lockdown shut industries around the world, while domestic prices stayed stable. In May, international prices declined considerably while domestic prices continued to correct downwards, as producers faced up to a weak economy, limited industrial demand, with most major projects remaining on hold.

Cold-Rolled (CR) Coils



Monthly Average Prices			
Period	*Int'l	t'l ^*Dom	
	(\$/tonne)	(Rs/tonne)	
May-19	560	48250	
Jun-19	560	47750	
Jul-19	566	45250	
Aug-19	560	43750	
Sep-19	523	42550	
Oct-19	498	40850	
Nov-19	467	41150	
Dec-19	498	42150	
Jan-20	541	45150	
Feb-20	554	46150	
Mar-20	554	45550	
Apr-20	498	45550	
May-20	467	44350	

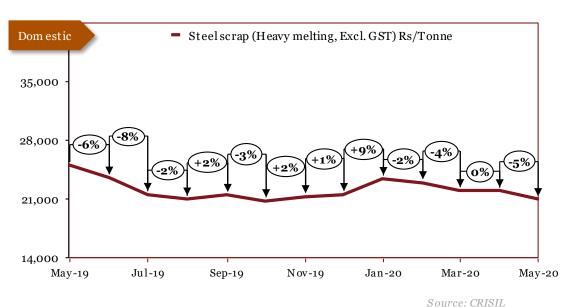


*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In August, domestic prices fell partly due to the continuing crisis in the Auto sector and weakening economic growth. In September, international as well as domestic CR prices continued to decline, mirroring HR prices. In October, international prices fell, mirroring HR coil price decreases. Domestic prices fell owing toweak demand in the automobile sector. In November, international prices fell in line with the fall in the prices of HR Coils, while domestic prices rose on account of increased infrastructure spending. In December, international prices rose mirroring HR Coil prices, while domestic prices rose on the backs of international rate increases. In January, both international and domestic prices rose in conjunction with hot-rolled coil prices. In February, international and domestic prices rose in accordance with HR Coil prices. In March, international price growth was halted and prices remained unchanged due to uncertainty around the COV ID-19 pandemic, Domestic prices fell concurrently with HR Coil prices. In April, international prices declined on account of COVID-induced shutdowns. In May, prices declined in line with HR Coil prices.

Steel Scrap (Heavy Melting)



Monthly Average Prices		
Period	*Dom	
	(Rs/Tonne)	
May-19	25050	
Jun-19	23550	
Jul-19	21550	
Aug-19	21,050	
Sep-19	21,550	
Oct-19	20,850	
Nov-19	21350	
Dec-19	21550	
Jan-20	23450	
Feb-20	23000	
Mar-20	22000	
Apr-20	22000	
May-20	21000	

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

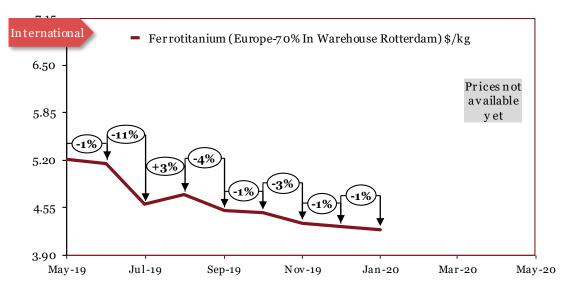
Outlook

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. In August, oversupply in the spot market ensure prices continued to fall. In September, domestic prices began to inch up due to stronger sentiment following the stabilisation of international prices. In October, the prices returned to decreasing, due to weak demand and uncertainty around the trade war. In November, prices rose on account of increased public spending. In December, prices rose owing to stronger steel demand in the market. In January, domestic prices rose strongly owing to higher demand for steel, buoyed by the performance of the infrastructure and automotive sectors. In February, prices corrected as sentiments were weakened by the spread of the coronavirus. In March, prices declined as the national lockdown shut all factory production across the country. In April, domestic prices remained constant. In May, domestic prices declined as traders reduced orders due to logistical concerns during the lockdown

Ferro-alloys

Ferro-alloys		16
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



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

Monthly Average Prices		
Period	^*Int'l	
	(\$/kg)	
May-19	5.21	
Jun-19	5.16	
Jul-19	4.60	
Aug-19	4.72	
Sep-19	4.51	
Oct-19	4.48	
Nov-19	4.34	
Dec-19	4.28	
Jan-20	4.25	
Feb-20		
Mar-20		
Apr-20		
May-20		

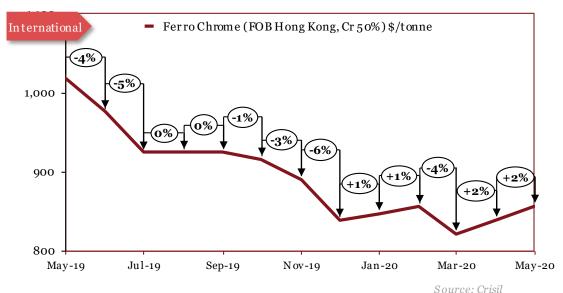
*The actual prices may vary depending on city, player, grade etc.

Outlook

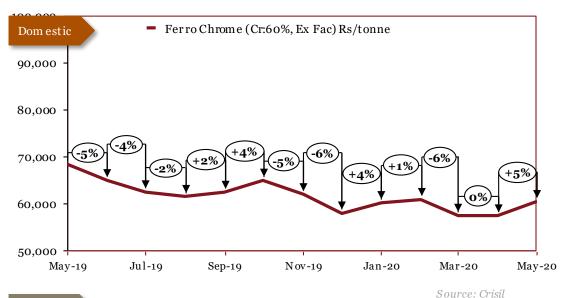
In October 2018, high-volume sales to Europe from Russia dragged down prices. From November 2018, ferrotitanium prices have witnessed consistently declining trend owing to unfavourable market conditions which has continued till February 2019. In March, ferrotitanium prices increased owing to increased 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. In August, the price rose thanks to growing demand. In September, international prices fell owing to week demand in the European steel market following a weak summer. In October, international prices fell due to weak European demand. In November, international prices kept falling due to unfavourable market conditions. In December, prices remained fairly steady, with a slight decline. In January, the downward trend in prices continued on muted demand.

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

Ferro chrome



Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
May-19	1019	68500	
Jun-19	976	65000	
Jul-19	924	62500	
Aug-19	924	61500	
Sep-19	924	62500	
Oct-19	916	65000	
Nov-19	890	62000	
Dec-19	839	58000	
Jan-20	847	60200	
Feb-20	856	61000	
Mar-20	822	57500	
Apr-20	839	57500	
May-20	856	60500	



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

Outlook

In October, international prices fell owing to weak demand and the trade war, whilst improving slightly domestically. In November, prices internationally declined again, owing to oversupply in the market and uncertainty regarding the trade war, whilst domestically prices fell owing to weak demand. In December, international prices fell due to weak demand in Europe and oversupply in China. Domestic prices fell due to cheaper Chinese competition. In January international prices remained fairly stable following months of decline while domestic prices rose following production cuts. In February, international prices rose marginally after the Chinese New Year holiday and the coronavirus lockdown led to a tightening of supply. Domestic prices decelerated as sentiments were weakened by the coronavirus outbreak. In March, international as well as domestic prices were hurt by bearishness in the stainless steel market caused by the COVID-19 crisis and its containment measures. In April, international prices rose as Chinese factories reopened, while South African mines were shut, reducing supply. Domestic prices remained stable. In May, prices rose globally as South African mines continued to face logistical challenges from lockdown measures, while Chinese demand continued to be strong.

Ferro molybdenum



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

Monthly Average Prices		
Period	*^Int'l	
	(\$/kg)	
May-19	18	
Jun-19	18	
Jul-19	17	
Aug-19	19	
Sep-19	18	
Oct-19	17	
Nov-19	15	
Dec-19	15	
Jan-20	16	
Feb-20		
Mar-20		
Apr-20		
May-20		

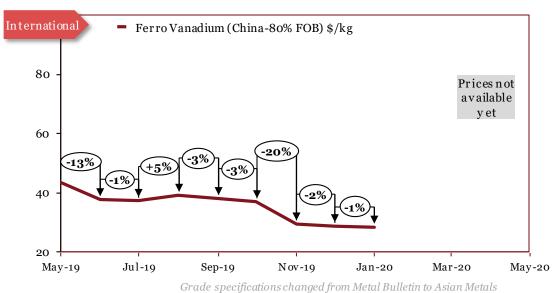
*The actual prices may vary depending on city, player, grade etc.

Outlook

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 moly bdenum concentrate. Strong sentiment spilt into the Moly bdenum market, with a rise in raw material price raising prices overall. In August, international prices rallied after a shortage of supply in China led to a growth in the Chinese domestic market. In September, international prices fell on the back of rigid demand in the market. In October, prices continued to fall through the quarter due to weak metal demand and weak demand in the ferro-alloys market. In November, prices continued to fall as producers sold their stocks at discounts and demand was affected by weak demand for stainless steel. In December, moly bdenum prices slowly began to stabilise after months of decline. In January, prices rose on the backs of strong industrial demand from automotive and other industries.

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

Ferro vanadium



Monthly Average Prices		
Period *Int'l		
	(\$/kg)	
May-19	43	
Jun-19	38	
Jul-19	37	
Aug-19	39	
Sep-19	38	
Oct-19	37	
Nov-19	29	
Dec-19	29	
Jan-20	29	
Feb-20		
Mar-20		
Apr-20		
May-20		

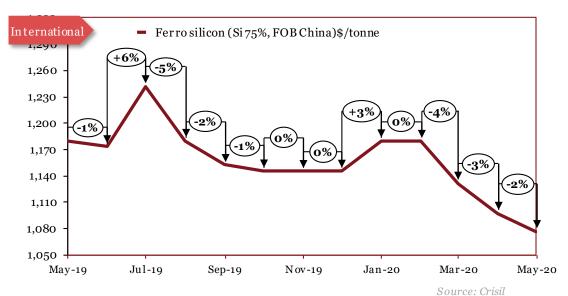
Source: Bloomberg

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

Outlook

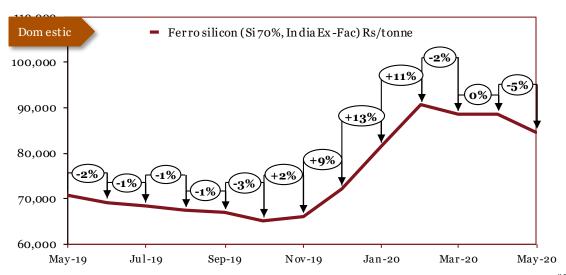
Prices remained unchanged in February 2019 due to stable market conditions. In March, prices remained unchanged due to stable market conditions. In April, prices increased due to strong demand from Chinese market, which in turn can be partly attributed to increase in demand arising from the implementation 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. In August, there was an increase in price boosted by improving demand. In September, prices internationally fell on account of a strong Chinese market dissuading foreign importers, with a large gap between Chinese and European prices. In October, prices continued to decrease as European producers worked to offload excess inventory in a time of weak demand. In November, international prices fell due to a sudden increase in Chinese production. In December, prices continued to fall due to vanadium being substituted with niobium, along side slow enforcement of new rebar regulations in China. In January prices fell minimally on stable market conditions.

Ferro silicon



11011011			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
May-19	1,180	70,700	
Jun-19	1,173	69,200	
Jul-19	1,242	68,400	
Aug-19	1,180	67,400	
Sep-19	1,152	66,900	
Oct-19	1,145	65100	
Nov-19	1145	66,100	
Dec-19	1145	72,100	
Jan-20	1180	81600	
Feb-20	1180	90600	
Mar-20	1132	88600	

Monthly Average Prices



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

1097

1076

Apr-20

May-20

Source: Crisil

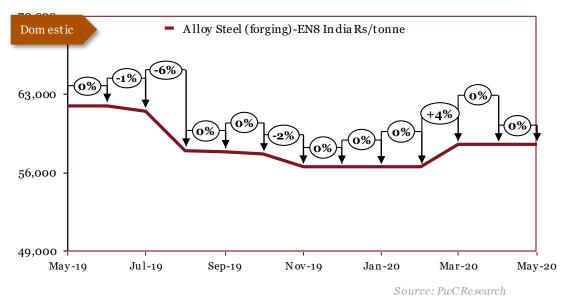
Outlook

In October, international prices remained fairly stable, as suppliers were able to counter weak demand with tight supply. In November, international prices remained constant on account of stable market conditions, while domestic prices rose on account of tighter supply. In December, international prices remained constant on account of stable market conditions, while domestic prices rose due to shortage of supply with sellers, caused partly by declining output from Bhutan. In January, international prices rose due to supply constraints in China whilst domestic prices rose on the back of a shortage of charcoal in factories causing production problems. In February, international prices remained stable while domestic prices continued to rise aggressively due to continued raw material shortage in Bhutan. In March, international prices fell as trading activity declined on the back of the COV ID-19 crisis, Domestic demand was similarly hurt by lockdown measures. Domestic prices have been hurt by the lack of in-person trading caused by the COV ID-19 lockdown. In April, international prices fell on account of the decline in industrial activity. Domestic prices remained stable. In May, prices declined as demand from steelmakers remained weak, while domestic producers began to cut capacity on poor economic environment.

88600

84600

EN8 Alloy Steel (Forging)



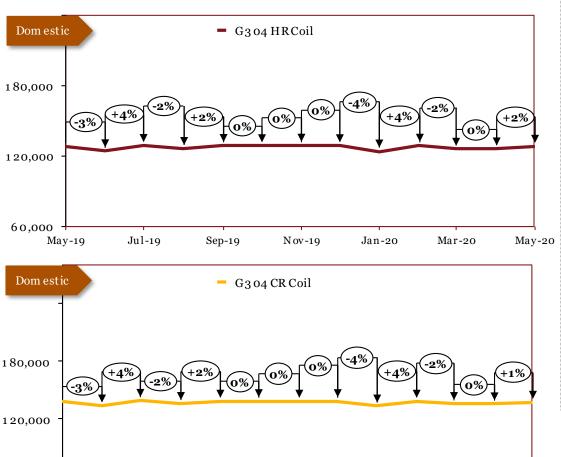
Monthly Average Prices		
Period	*Dom (Rs/tonne)	
May-19	62,000	
Jun-19	62,000	
Jul-19	61,500	
Aug-19	58,000	
Sep-19 57,875		
Oct-19	57,625	
Nov-19	56500	
Dec-19	56500	
Jan-20	56500	
Feb-20	56500	
Mar-20	58500	
Apr-20 58500		
May-20	58500	

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

Outlook

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. In August, global prices fell due to the fall in the price of Nickel. In September, domestic prices remained unchanged due to stable market conditions. In October, the prices remained constant. In November prices declined due to a difficult demand environment caused by the struggles of the automotive and manufacturing sectors. In December, prices remained constant on stable market conditions. In January, prices remained unchanged thanks to stable market conditions. In February prices remained stable. In March, domestic prices rose thanks to higher demand and improved industrial activity prior to the national lockdown. In April, prices remained stable. Prices remained stable in May.

Stainless Steel



Nov-19

Monthly Domestic Average Prices			
	*G304 HR	*G304 CR	
Period	(Rs/tonne)	(Rs/tonne)	
May-19	128,200	137,750	
Jun-19	124,200	133,750	
Jul-19	129,200	138,750	
Aug-19	126,200	135,750	
Sep-19	128,700	138,250	
Oct-19	128,700	138,250	
Nov-19	128700	138250	
Dec-19	128700	138250	
Jan-20	123700	133250	
Feb-20	128700	138250	
Mar-20	125700	135250	
Apr-20	125700	135250	
May-20	127700	138250	

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

Outlook

May-19

Jul-19

Sep-19

60,000

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, increased. In August, global prices fell on weak demand and high inventories. In September, international prices rose owing to skyrocketing Nickel prices. This increase was mirrored by domestic prices. In October, prices remained stable domestically and internationally. In November, domestic as well as international prices continued to remain unchanged. In December, international and domestic prices remained unchanged on stable market conditions. In January, prices fell due to an excess of supply over demand in the market. In February, international as well as domestic prices corrected to their long term December levels. In March, domestic prices fell as the COV ID-19 pandemic rocked industrial activity all around the world. In April, international and domestic prices remained stable. In May, prices rose marginally despite a weak demand environment both in India and globally.

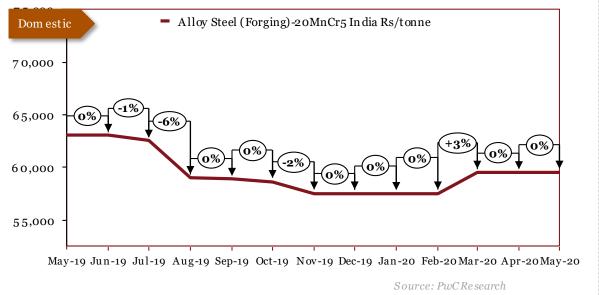
Mar-20

Source: PwCResearch

May-20

Jan-20

20MnCr5 Alloy Steel (Forging)



Monthly Average Prices		
Period	*Dom	
	(Rs/tonne)	
May-19	63,000	
Jun-19	63,000	
Jul-19	62,500	
Aug-19	59,000	
Sep-19	58,875	
Oct-19	58,625	
Nov-19	57500	
Dec-19	57500	
Jan-20	57500	
Feb-20	57500	
Mar-20	59500	
Apr-20	59500	
May-20	59500	

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

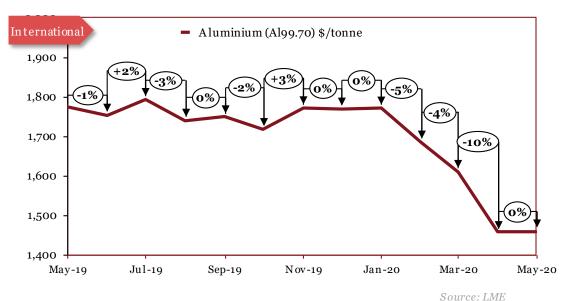
Outlook

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 India. In August, prices continued to fall, owing to weakening demand and oversupply of inventory. In September, domestic prices managed to stay constant as the auto slowdown was followed by a large decrease in production. In October, prices remained stable. In November, prices fell due to weak demand, partly down to the Auto slowdown. In December, prices remained unchanged. In January, prices remained unchanged thanks to stable market conditions. In February prices remained stable. In March, prices rose on stronger industrial activity and demand prior to the COVID-19 lockdown. In April, prices remained stable. In May, prices remained stable.

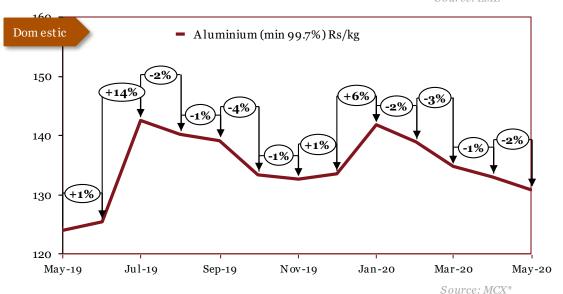
Base Metals

Base Metals		2 5
16	Aluminium	26
17	Copper	27
18	Zinc	28
19	Lead	29
20	Nickel	30
21	Tin	31
22	Magnesium	32

Aluminium







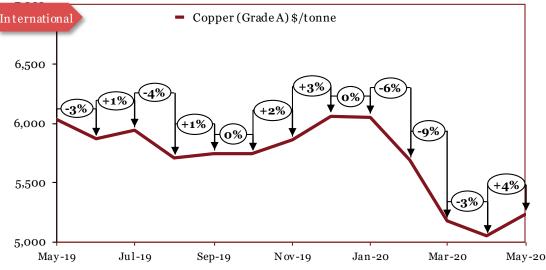
*The actual prices may vary depending on city, player, grade etc.

Outlook

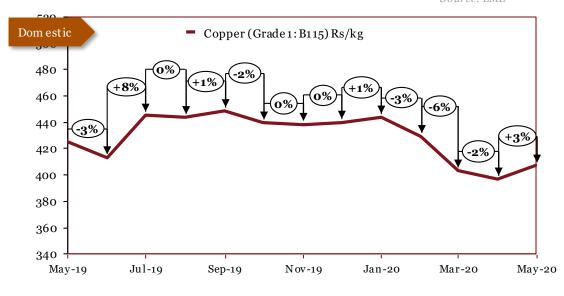
In October, international prices fell despite lower production, partly due to weak demand from the Chinese auto sector, while the slowdown in the Indian auto sector hurt domestic prices. In November, international prices were up following trade negotiations between the US and China, while domestic prices continued to suffer from weak demand. In December, international prices remained unchanged, whilst domestic prices rose slightly on improved sentiment and economic conditions. In January, international prices remained unchanged, while domestic prices rose. In January, international prices were stable while domestic prices rose thanks to improving macro-economic sentiment. In February, international prices fell sharply as the coronavirus had a major impact on Chinese demand, which was reflected on domestic imported prices as well. In March, international prices declined due to oversupply in the market by Chinese producers, while domestic prices fell thanks to weaker local demand. In April, international prices declined on account of declining demand from producers. Domestic prices fell on account of the COVID-19 lockdown. In May, prices remained stable internationally, but continued to decline in the domestic market, as inventories built up and players worked towards lowering the production cost on it.

*Source updated in July 2019

Copper







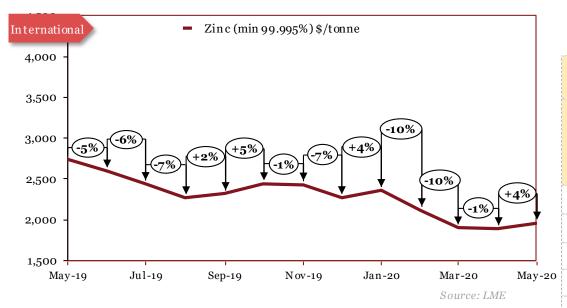
Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/kg)
May-19	6,028	425
Jun-19	5,868	413
Jul-19	5,939	445
Aug-19	5,708	444
Sep-19	5,745	449
Oct-19	5,742	440
Nov-19	5859	438
Dec-19	6062	440
Jan-20	6049	444
Feb-20	5686	430
Mar-20	5179	403
Apr-20	5048	397
May-20	5234	407

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

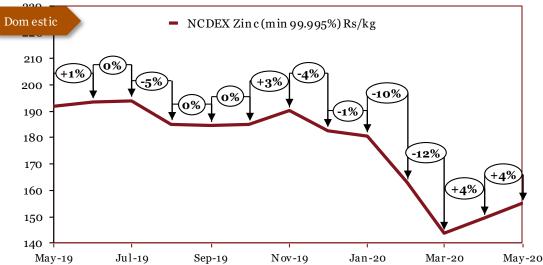
Outlook Source: MCX

In October, international prices remained unchanged despite uncertainty around the trade war, whilst domestic prices fell due to weak manufacturing demand. In November, prices rose internationally thanks to hopes of a US-China trade deal, while remaining stable domestically. In December, international prices rose on positive sentiment about a US-China trade deal, while domestic prices remained stable. In January, international prices remained unchanged whereas domestic prices rose mildly thanks to better macro-economic sentiment. In February, international prices fell as markets reacted to the coronavirus outbreak in China, and domestic prices followed suit. In March, international prices declined on account of the COV ID-19 pandemic, and domestic prices similarly fell as a result of the national lockdown. In April, international and domestic prices continued their downward trajectory on account of the COV ID-19 crisis. In May, prices rose after months of downturn on the hopes of an economic revival and the slow removal of lockdown measures in In dia and abroad.

Zinc



Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
May-19	2,747	192	
Jun-19	2,602	194	
Jul-19	2,441	194	
Aug-19	2,275	185	
Sep-19	2,319	185	
Oct-19	2,445	185	
Nov-19	2432	190	
Dec-19	2273	183	
Jan-20	2357	181	
Feb-20	2120	163	
Mar-20	1905	144	
Apr-20	1894	149	
May-20	1963	155	



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

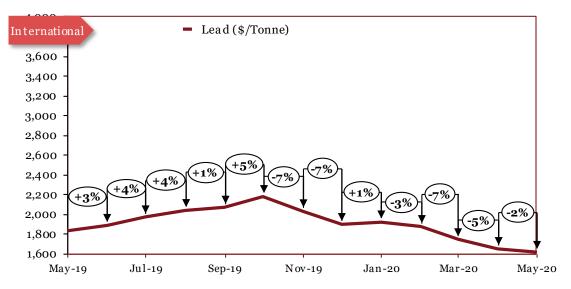
Outlook

In October, international Zinc prices rose on the back of a shortage of supply. Domestic prices remained unchanged for the second month running, down to stability in the market. In November, international price recovery slowed due to oversupply in the market, while domestic prices rose on strong demand. In December, Zinc prices fell globally owing to oversupply in China stoking demand concerns, while domestic prices fell on the backs of slackened demand. In January, international prices rose on higher demand in preparation for the US-China trade agreement. Domestic prices fell marginally on oversupply in the market. In February, international prices fell as markets reacted to the outbreak of coronavirus in China and around the world, with domestic prices falling simultaneously. In March, global zinc prices saw a marked decline due to pressure from the COV ID-19 crisis. Domestic prices were also hurt by the halting of industrial activity. In April, the international price decline stabilised as China reopened factories, while domestic prices rose slightly. In May, international prices rose on greater demand while domestic prices were supported by a decline in output

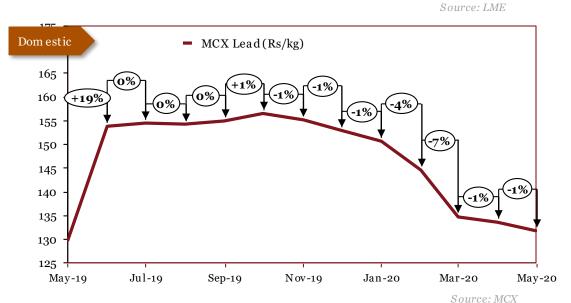
Source: MCX*

*Source updated in July 2019

Lead



Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
May-19	1,830	130	
Jun-19	1,891	154	
Jul-19	1,974	155	
Aug-19	2,043	154	
Sep-19	2,070	155	
Oct-19	2184	157	
Nov-19	2031	155	
Dec-19	2,273	153	
Jan-20	2357	151	
Feb-20	2120	145	
Mar-20	1905	135	
Apr-20	1894	134	
May-20	1063	132	

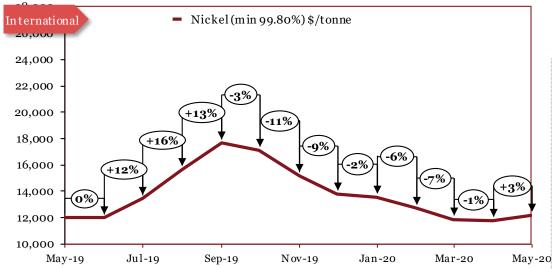


*The actual prices may vary depending on city, player, grade etc.

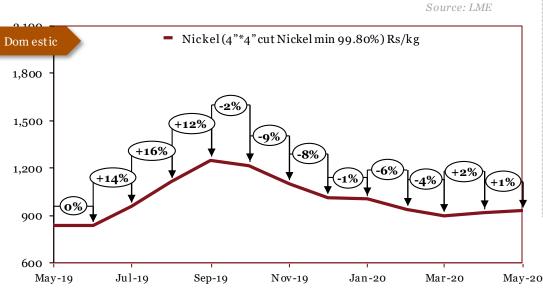
Outlook

In October, international prices rose thanks to higher demand from battery makers in the physical market. Domestic prices also rose thanks to rising demand. In November, international prices fell due to the increase in production in China, along side the expected reopening of a key Australian mine in the near future. Domestic prices followed suit in declining. In December, international prices retreated further due to weak demand, particularly in the automobile space. China is the world's largest consumer. Domestically, lead prices were down only slightly thanks to demand from battery producers. In January, international prices remained fairly stable, still affected by poor demand. Domestic prices fell marginally. In February, international as well as domestic prices fell as the coronavirus outbreak impacted industrial demand in China and around the world. In March, international prices fell on account of global uncertainty around the COVID-19 pandemic, and domestic prices fell on account of the halting of production following containment measures. In April, prices declined on account of decreased industrial activity internationally and in India. In May prices declined slightly, continuing their downward trajectory.

Nickel



Monthly Average Prices		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
May-19	11,995	837
Jun-19	11,967	839
Jul-19	13,459	960
Aug-19	15,678	1,114
Sep-19	17,668	1,248
Oct-19	17,108	1,218
Nov-19	15195	1104
Dec-19	13797	1016
Jan-20	13549	1003
Feb-20	12740	941
Mar-20	11870	901
Apr-20	11753	921



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

12135

May-20

Outlook

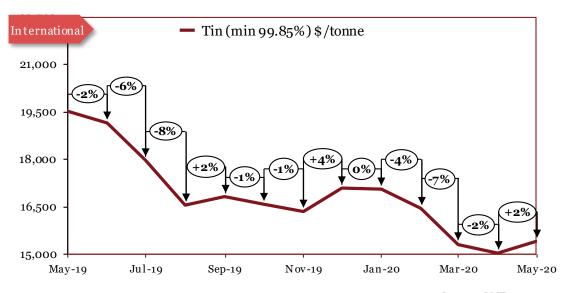
In October, Nickel prices began to slide downwards a supply uncertainties were countered by weakening demand from China and easing of supply constraints in the physical market. In November, international as well as domestic prices fell due to increasing supplies, a longside the resumption of exports from Indonesia. In December, Nickel prices continued to correct domestically and internationally on oversupply in the market, particularly large Chinese imports. In January, international prices were hurt by the trade war as well as fears of the coronavirus epidemic. Domestic prices followed suit in declining. In February, international prices fell harshly as inventories piled up over the Chinese lockdown. Domestic prices were hurt by weakening market sentiment thanks to the coronavirus outbreak in China affecting supply chains. In March, international as well as domestic prices were hurt by the reduction in stainless steel demand, as well as lower production of electric vehicles. In April, international prices declined, though supply shocks prevented further fall. Domestically, prices rose thanks to a supply shock and higher spot demand. In May, international and domestic prices rose on account of greater demand from alloy makers.

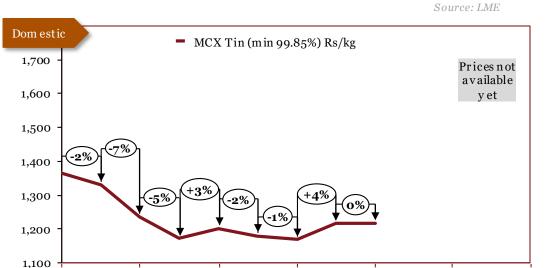
Source: MCX*

*Source updated in July 2019

930

Tin





Nov-19

Monthly Average Prices			
	*Int'l	*Dom	
Period	(\$/tonne)	(Rs/kg)	
May-19	19,520	1,364	
Jun-19	19,163	1,331	
Jul-19	17,981	1,237	
Aug-19	16,567	1,172	
Sep-19	16,828	1,201	
Oct-19	16,592	1,180	
Nov-19	16360	1,169	
Dec-19	17083	1216	
Jan-20	17062	1216	
Feb-20	16447		
Mar-20	15315		
Apr-20	15039		
May-20	15409		

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

Source: Bloomberg

Mar-20

May-20

Outlook

May-19

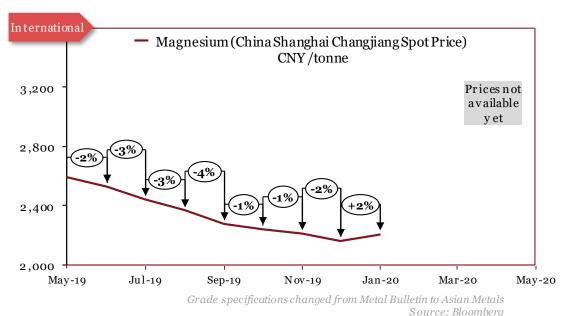
Jul-19

Sep-19

In July, international and domestic prices have continued to slide due to high inventory levels, stemming from a poor global demand scenario. In August, Tin prices fell globally due to uncertainty around the trade war, along side decline in production of semiconductors in China, the primary usage of tin. In September, the fall in international prices was stopped by a cut in Chinese production, with domestic prices following suit. In October, international prices fell due to weaker demand from the electronics sector caused by the trade war. Domestic prices decreased due to weaker demand. In November international prices corrected slightly downwards, alongside domestic prices. In December, international prices finally looked to be picking up thanks to positive demand and the hopes of a US-China trade agreement. Domestic prices also rose in tandem with international prices. In January, international and domestic prices both remained unchanged. In February, tin prices fell internationally due to slackened demand. In March, international prices declined as major semiconductor markets Japan and South Korea rapidly curtailed industrial activity to contain COV ID-19. In April, prices fell due to lower demand. In June, international prices edged upwards on account of industrial activity resuming globally.

Jan-20

Magnesium



Monthly Average Prices		
Period	*Int'l (\$/tonne)	
May-19	2,595	
Jun-19	2,532	
Jul-19	2,445	
Aug-19	2,367	
Sep-19	2,275	
Oct-19	2,243	
Nov-19	2,212	
Dec-19	2162	
Jan-20	2207	
Feb-20		
Mar-20		
Apr-20		
May-20		

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

Outlook

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. In August, a surplus of supply in the market led to a continued drop in prices globally. In September, the trend of international prices falling continued due to weak demand from buyers. In October, prices fell further due to weak demand in China and internationally. In November, prices continued on their downward trajectory due to weak market conditions. In December, the downward trend of prices continued. In January, magnesium prices rebounded slightly

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

Precious Metals

Precious	s Metals	33
23	Precious Metals	34

Precious Metals



Month	ly Avera	ige Price	es (\$/Oz)	
 				-

International	Palladium International Price \$/troy oz.
4,000 -	
3,500 -	(-15%)
3,000 -	+18%
2,500	(6%) (+10%) (+7%)
2,000 + (+8%)	7% (+8%)
1,500 -	V V
1,000	

Period	Pt	Pd	Rh
May-19	838	1340	2900
Jun-19	813	1446	3157
Jul-19	847	1552	3487
Aug-19	863	1462	3929
Sep-19	948	1608	5001
Oct-19	901	1,733	5,363
Nov-19	907	1777	5728
Dec-19	929	1909	6046
Jan-20	993	2258	8609
Feb-20	968	2544	11671
Mar-20	772	2170	10617
Apr-20	762	2156	8545
May-20	805	1949	7824



Source: Johnson Matthey

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

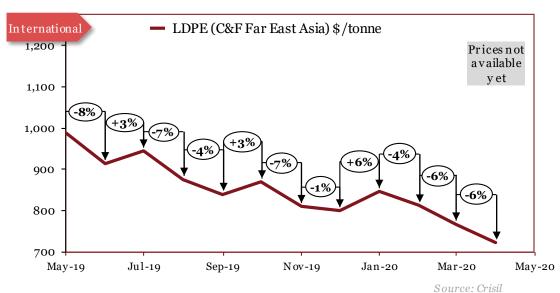
Outlook

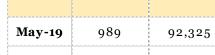
In December, prices of Rh odium and Palladium continued to rise exponentially as demand from auto manufacturers continued to outstrip supply, while platinum prices rose steadily, being a popular investment. In January, rhodium and palladium prices continued to rise due to demand from carmakers for their catalytic convertors to manage stricter emissions rules. Platinum prices rose in conjunction, though at a lesser rate, reflecting the shift from petrol to hybrid cars that use palladium rather than platinum. In February, platinum's price growth was reversed as demand decreased in autocatylsts, electricals and glass-making, while palladium and rhodium prices continued to rise thanks to stricter environmental restrictions on cars in Europe, China and India. In March the record international price growth for palladium, platinum and rhodium was halted as the automotive industry, its primary customer, halted production around the world as part of lockdown measures. In April, lockdown measures continued to cause downward pressure on prices of all three metals, with auto production and other industries shut. In May, prices of Palladium and Rhodium continued to trend downwards from their earlier highs, while platinum prices rose as investors showed interest in it.

Polymers & Rubber

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

Low density polyethylene (LDPE)





(\$/tonne)

Period

Monthly Average Prices

*Dom

(Rs/tonne)

85309

 Jun-19
 913
 88,579

 Jul-19
 944
 87,460

 Aug-19
 876
 86,526

 Aug-19
 876
 86,526

 Sep-19
 840
 90,160

 Oct-19
 869
 89,337

 Nov-19
 810
 84747

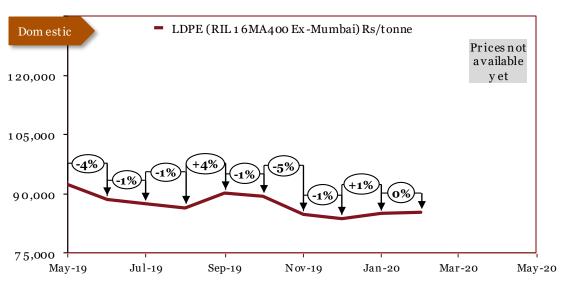
 Dec-19
 800
 83814

 Jan-20
 847
 84922

 Feb-20
 813

 Mar-20
 767

Apr-20 721 May-20



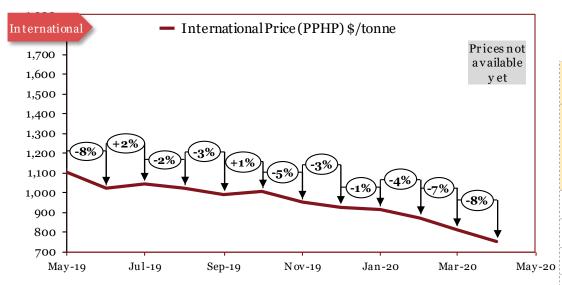
Source: Reliance Industries Ltd.

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

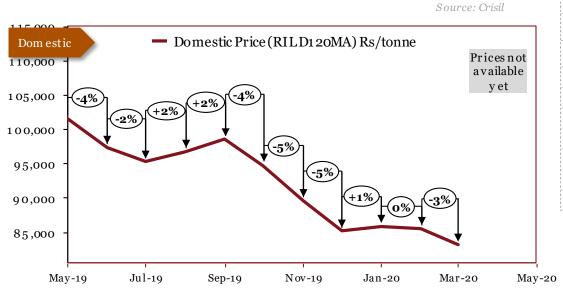
Outlook

In July, international prices increased slightly due to a rollower for ethylene contract prices in the futures market. Domestically also, prices remained stable due to unchanged demand-supply conditions in the market. In August, prices fell due to an oversupply of product and a lack of compensating demand, whilst remaining fairly stable domestically. In September, while international prices continued to slide due to oversupply, domestic prices rose, partly due to supply shocks from Saudi Arabia oilfield attack. In October, international prices rose thanks to tighter spot supply, while domestic prices fell as supply was normalised. In November prices fell internationally and domestically as producers sought to drop their excess inventory, due to overproduction in the United States. In December, prices internationally and domestically continued to decline as oversupply in the market met sluggish demand. In January, international prices rose due to plant shutdowns in Japan and Thailand, with domestic prices also rising. In February, domestic prices remained unchanged. In March, international prices declined as a result of the fall in crude oil prices and the COVID-19 lockdown. In April, low crude prices caused further decline in international prices

Polypropylene (PP)



Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
May-19	1,104	101,567	
Jun-19	1,020	97,334	
Jul-19	1,043	95,219	
Aug-19	1,021	96,735	
Sep-19	991	98,474	
Oct-19	1,005	94,729	
Nov-19	951	89533	
Dec-19	927	85116	
Jan-20	914	85862	
Feb-20	873	85482	
Mar-20	812	83120	
Apr-20	751		
~ -			



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

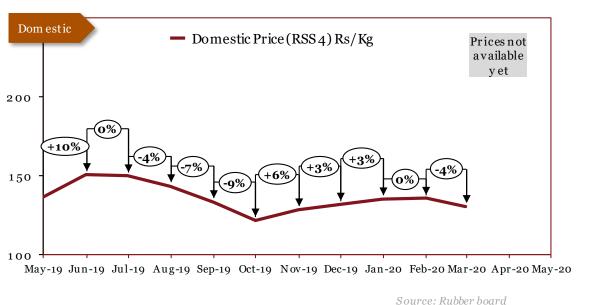
May-20

Source: Reliance Industries Ltd.

Outlook

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 demand. In August, polypropylene prices across the Asian regions dropped, triggered by persistent bearish demand trends and a sharp fall in PP futures. In September, while prices continued to slide internationally due to weak demand and issues surrounding international tariffs, domestic prices were rose following the rise in crude prices due to the events in Saudi Arabia. In October, international prices rose, while domestic prices were cut to try and incentivize buying. In November, prices fell domestically and internationally on account of oversupply and a period of weak demand from the plastics industry. In December, international and domestic prices continued to decline, with ample inventory in the market as buyers resisted building up stocks. In January, the trend of falling international prices continued thanks to a production surge in China, while domestic prices rose on tighter availability of product in the domestic market. Zin February, domestic prices remained unchanged. In March, the dramatic decrease in crude oil prices led to the fall in Polypropylene prices internationally as well as domestically. In April, prices declined on low crude costs.

Rubber



Monthly Average Prices		
Period *Dom		
	(Rs/kg)	
May-19	136	
Jun-19	150	
Jul-19	150	
Aug-19	143	
Sep-19	133	
Oct-19	121	
Nov-19	128	
Dec-19	131	
Jan-20	135	
Feb-20	135	
Mar-20	130	
Apr-20		
May-20	116	

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

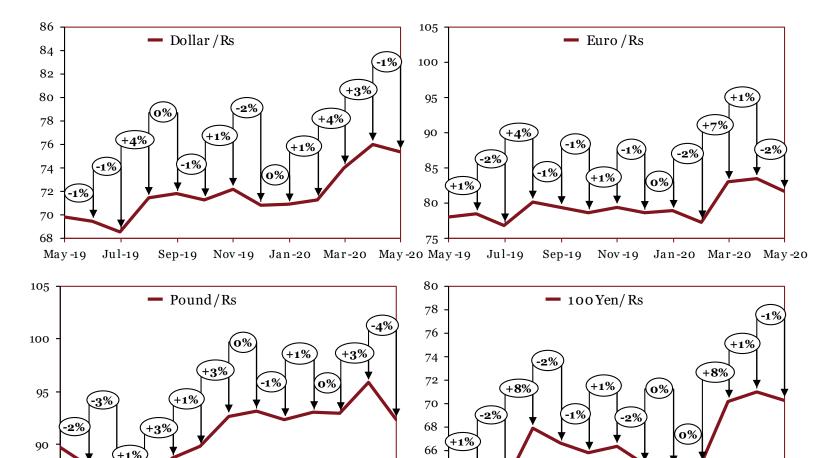
Outlook

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. In August, Plummeting global prices and muted demand from tyre makers drove down the price of natural rubber in India. In September, domestic prices continued to fall due to weak demand from auto manufacturers as well as large inventories held by rubber manufacturers. In November, prices rose domestically as continuing rains prevented tapping, leading to weak production. In December, rubber prices rose due to the Pestalotiopsis disease on rubber plantations lowering international supply, alongside the higher oil price and the breakthrough in US-China trade relations. In January prices continued to trend upwards due to worsening supply problems. In February, domestic prices remained mostly unchanged despite buyers fears regarding the impact of the coronavirus crisis. In March, domestic prices fell as the COVID-19 pandemic halted all industrial activity, including in the tyre industry.

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Forex Movement



Source: Reserve Bank of India

Jan-20 Mar-20 May-20

	Monthly Average Prices (Rs)												
	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar- 20	Apr-20	May-
\$	70	69	69	71	72	71	72	71	71	71	74	76	75
£	78	78	77	80	79	79	79	93	92	93	93	96	92
€	78	78	77	80	79	79	79	79	79	77	83	83	82
¥	63	64	63	68	67	66	66	65	65	65	70	71	70

Jan-20 Mar-20 May-20 May-19

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Jul-19

Sep-19

Nov -19

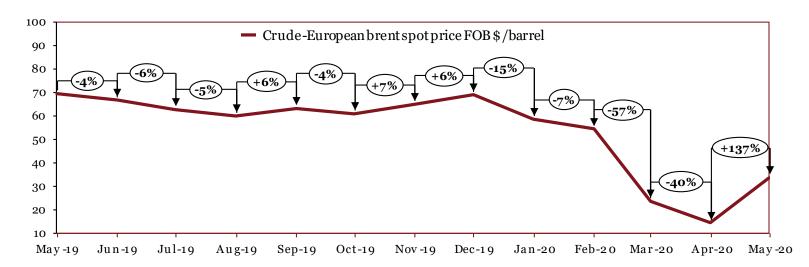
May -19

Jul-19

Sep-19

Nov -19

Crude Oil



Source: EIA

Monthly Average Prices (\$/barrel)													
	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar- 20	Apr-20	May-
	69	67	63	60	63	61	65	69	59	54	24	14	34

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: Bloomberg Black Sea Steel Billet Spot FOB	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	Bloomberg - Tin (min 99.85%) \$/tonne					
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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