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Commodity price monitor March-23

Prepared for ACMA

Strictly private and confidential

March 2023





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Commodity trend dashboard

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

Calendar Year 2022: Q vs. Q update

Commodity	Region	Q-o-Q	Up	Q-o-Q Down
Iron & Steel				
Iron Ore	International			-36.48% V
	Domestic low grade			
	Domestic high grade			
Pig Iron	International			-5 . 47% ▼
	Domestic	7.92%	A	
Stainless steel	Domestic	7.86%		
	Domestic	7.42%		
Wire rod	International			-5.02% V
	Domestic	4.89%		
Steel Billets	International			0.00%
	Domestic	1.66%		
Hot-rolled coils	International			-9.32% ▼
	Domestic	1.54%	_	
Cold-rolled coils	International			-10.15% V
	Domestic	1.07%	_	
Steel Scrap	Domestic	1.37%	_	
EN8	Domestic	3.91%	_	
20MnCr5	Domestic	3.86%	_	
Ferro-alloys				
Ferro titanium	International	N/A		
	International	3.11%	_	
Ferro chrome	Domestic			-1.46% ▼
Ferro molybdenum	International	N/A		
Ferro vanadium	International	N/A		
- 11	International	17.37%	_	
Ferro silicon	Domestic	73.20%	_	

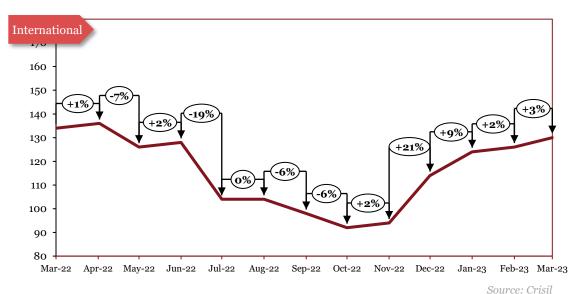
Commodity trend dashboard Quarter-on-Quarter changes (2/2)- Rolling view

Calendar Year 2022: Q vs. Q update

Commodity	Region	Q-o-Q Up	Q-o-Q Down
Base Metals			
Aluminum	International	4.39%	
Alullillulli	Domestic	5.27%	
Copper	International	3.47% ▲	
Сорреі	Domestic	2.67% ▲	
Zinc	International	18.42%	
ZIIIC	Domestic	13.03%	
Lood	International		-0.46%
Lead	Domestic	3.49%	
NI al al	International	3.60% ▲	
Nickel	Domestic	6.11%	
T:-	International	11.80%	
Tin	Domestic	N/A	
Magnesium	International	N/A	
Precious Metals			
Platinum	International		-2.29%
Palladium	International		-20.76%
Rhodium	International		-18.83%
Polymers			
	International	5.83%	
Low density polyethylene (LDPE)	Domestic	13.89%	
Dalamara (DD)	International	8.44%	
Polypropylene (PP)	Domestic	8.41%	
A - und - unitable Dutte di - un - Ctumour - (ADC)	International	2.18%	
Acrylonitrile Butadiene Styrene (ABS)	Domestic	3.44%	
Deliver was a (DC)	International		0.00%
Polystyrene (PS)	Domestic	1.16%	
Rubber	Domestic	1.90%	
Currency Exchange			
Dollar	International	1.30%	
Pound	International		-2.01%
Euro	International		-2.14%
Yen	International		-1.49%

Iron & Steel

Iron Ore



	*Int'l	*Dom Rs/tonne	
Period	\$/tonne		
		65% & below	65% & above
Mar-22	134	4447	6579
Apr-22	136	4696	6632
May-22	126	4571	6583
Jun-22	128	3981	5046
Jul-22	104	3139	4524
Aug-22	104	2943	4317
Sep-22	98	2835	4314
Oct-22	92	2860	4204
Nov-22	94	2803	3931
Dec-22	114	2996	3936

124

126

130

3346

4484

Monthly Average Prices

17.000	
Domestic	Prices not
15,000	released by
14,000 -	the source
	as on
13,000	25/03/23
12,000	
11,000 -	Dec'21 data
10,000	unavailable;
9,000 -	assumed to
(-3%)	be same as Nov'21
[\(\frac{1}{2}\pi_2\pi_1\) \(\frac{1}{2}\pi_2\pi_1\)	NOV 21
7,000 $6,000$ $7,00$	
F(-6%)	
5,000 +1% (+7%)	
4,000	r
3,000 -	
2,000	
Mar-22 Apr-22 May-22 Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-	-23 Feb-23 Mar-2

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

Jan-23

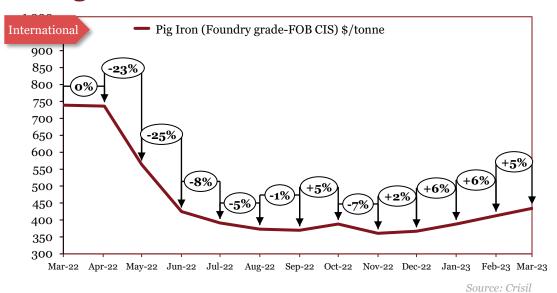
Feb-23

Mar-23

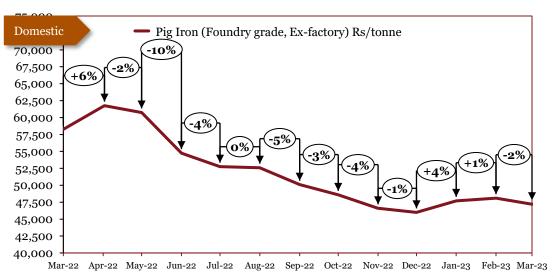
Outlook

In June, International prices rose slightly due to sentiment in future markets and demand from top steel producers in China. In July, international prices fell sharply due to weaker demand for steel from the construction sector in China. In August, international prices remained stable. Domestic prices decreased due to a fall in demand in China, caused by COVID-19 restrictions and a slowdown in the property sector. In September, international prices fell due to fresh covid-19 restrictions, typhoons, and property sector troubles in China squeezing demand for ferrous metals. In October, international and domestic prices dropped as a result of lower consumption levels, particularly in China due to the nation's housing market woes along with Covid restrictions. In November, international prices remained relatively stable. In December, prices rose sharply as a result of a surge in demand from steel plants following the expectation of an easing in China's strict pandemic restrictions. In January and February, international and domestic prices increased amid expectations of strong demand as China re-opened its economy after abandoning its strict zero-COVID policy. In March, international prices increased due to supply constraints from weather-impacted Brazil and China's seasonal winter curb on production.

Pig Iron



Monthly Average Prices				
Period	*Int'l	*Dom		
	\$/tonne	Rs/tonne		
Mar-22	739	58250		
Apr-22	736	61750		
May-22	564	60750		
Jun-22	425	54750		
Jul-22	391	52750		
Aug-22	373	52600		
Sep-22	370	50100		
Oct-22	388	48600		
Nov-22	360	46600		
Dec-22	367	46000		
Jan-23	388	47700		
Feb-23	413	48100		
Mar-23	434	47200		



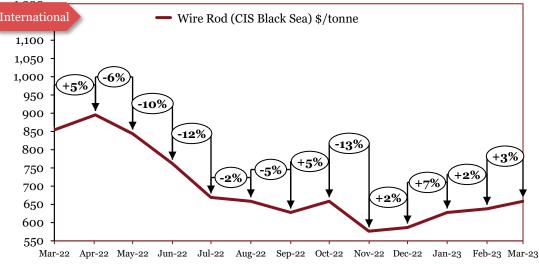
*The actual prices may vary depending on city, player, grade etc.

Source: Crisil

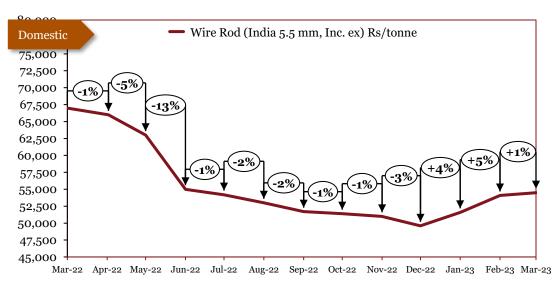
Outlook

In September, domestic prices fell due to the 15% export duty causing inventory build-up in the domestic market. International prices decreased due to recession fears and expectations of lower demand. In October, domestic prices fell due to lower auction volumes at steel plants as a result of subdued domestic demand - due to the festive season - coupled with an inventory pile-up at steel mills. International prices rose due to a rise in coking coal prices. In November, international and domestic prices declined sharply due to a fall in coking coal prices, along with a slowdown in end-user demand caused by recessionary fears and geo-political unrest. In December, international prices rose slightly in tandem with iron ore prices. Domestic prices remained marginally stable. In January, domestic prices increased as India's largest iron ore producer NMDC raised its iron ore prices, a key raw material. International prices increased due to a boost in China's property sector as a result of favorable policymaking. In February, prices increased in tandem with key raw material prices of coking coal and iron ore. In March, domestic prices fell due to moderate demand for finished steel in the secondary sector. International prices increased in tandem with iron ore prices.

Wire Rod







Monthly Average Prices			
Period	^*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
Mar-22	854	66994	
Apr-22	895	65994	
May-22	844	62994	
Jun-22	761	54994	
Jul-22	669	54194	
Aug-22	659	52994	
Sep-22	628	51694	
Oct-22	659	51394	
Nov-22	576	50994	
Dec-22	587	49594	
Jan-23	628	51594	
Feb-23	638	54094	
Mar-23	659	54494	

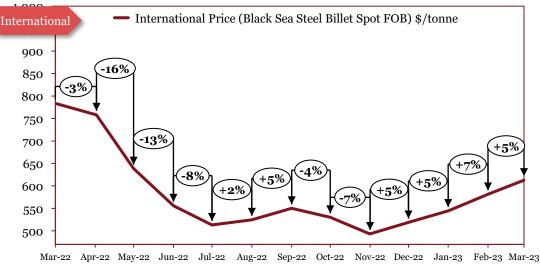
Source: Crisil

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

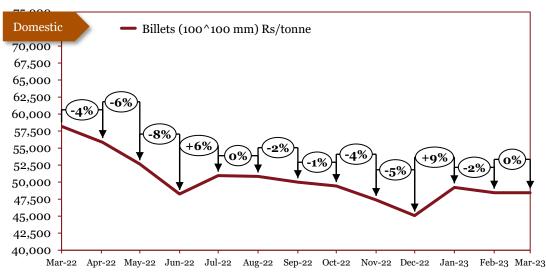
Outlook

In August, domestic prices fell slightly owing to a reduction in offer prices by steel producers and a fall in bids at SAIL auctions. International prices fell as a result of a fall in demand, due to lower consumption levels. In September, prices fell due to market uncertainty amid soaring energy prices, coupled with highly volatile prices of semi-finished steel in key markets. In October, domestic prices fell due to subdued domestic demand and inventory pile-up at steel mills due to scheduled maintenance breaks. International prices increased in tandem with stainless steel prices. In November, international prices fell sharply due to a fall in downstream demand, a slowdown in China's economy (a major consumer of finished steel products), as well as high inventory levels at mills. Domestic prices remained relatively stable. In December, international prices rose due to a surge in demand from the construction sector of China. Domestic prices decreased due to a decline in coking coal prices. In January, prices increased due to a contraction in pig iron production rates at major integrated steel works in the EU, the UK, the Balkans, and Turkey. In February and March, prices increased due to an increase in the price of steel, iron ore, and coking coal.

Steel Billets



Source: Crisil



Monthly Average Prices			
Period	^*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
Mar-22	784	58200	
Apr-22	758	55860	
May-22	638	52650	
Jun-22	556	48250	
Jul-22	513	50960	
Aug-22	524	50833	
Sep-22	550	50000	
Oct-22	530	49425	
Nov-22	493	47375	
Dec-22	519	45080	
Jan-23	544	49225	
Feb-23	581	48450	
Mar-23	613	48433	

Source: Crisil

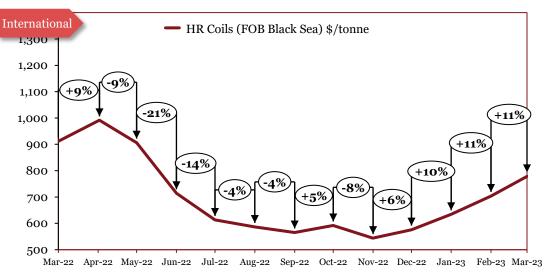
*The actual prices may vary depending on city, player, grade etc.

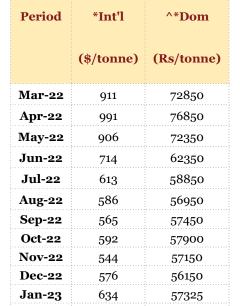
Outlook

In August, international prices rose due to an increase in energy costs. Domestic prices remained stable. In September, international prices slightly increased in tandem with steel prices. Domestic prices plummeted due to sluggish finished steel sales ahead of the festive season and hampered construction activities amid a monsoon that has taken time to recede. In October, international and domestic prices fell due to a sharp downturn in Chinese demand, due to concerns over the housing market and COVID-19 restrictions. In November, domestic prices fell due to lower bids, weak spot trading, and large inventory volumes at mills. International prices fell due to weak demand from the real estate and construction sectors, particularly in China. In December, international prices increased due to a rise in demand from the Chinese construction sector and the post-easing in restrictions. Domestic prices fell sharply due to the imposition of export duties by the government of India, aided by rising stock levels. In January and February, prices increased due to high input costs - primarily iron ore and coking coal - and supply chain disruptions due to the ongoing geopolitical crisis. In March, the domestic prices remained relatively stable. International prices increased in tandem with steel prices.

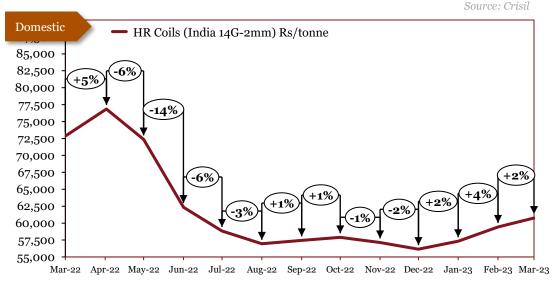
^International prices changed due to change in the grade

Hot-Rolled (HR) Coils





Monthly Average Prices



Source: Crisil

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

704

778

59425

60750

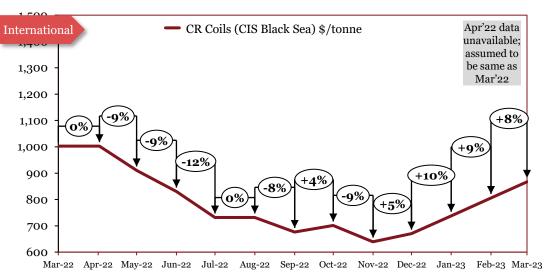
Feb-23

Mar-23

Outlook

In September, domestic prices rose because of an increase in the price of key raw materials (steel). International prices fell due to lower end-user demand in the face of economic uncertainty. In October, international prices increased after hitting a year-low in September due to a rise in raw material prices. Domestic prices remained relatively stable. In November, international prices declined due to lower raw material and input costs, along with a fall in downstream demand. Domestic prices remained relatively stable. In December, international prices increased sharply on the back of a rebound in the domestic Chinese market. Domestic prices decreased as Indian mills were forced to cut prices due to higher available stocks and a weakening commodity cycle. In January, domestic prices increased as a result of a rise in raw material prices. International prices increased in tandem with coking coal prices. In February, prices increased due to high raw material costs, expectations of steel prices to remain supported owing to the cost push and recovery in Chinese demand, and declining inventory amid expectations of favorable policies in China. In March, domestic prices increased due to high coking coal prices and stable export prices. International prices increased due to supply chain disruptions in Turkey.

Cold-Rolled (CR) Coils



Period	*Int'l	^*Dom
	(\$/tonne)	(Rs/tonne)
Mar-22	1002	79000
Apr-22	1002	83000
May-22	910	78500
Jun-22	830	70500
Jul-22	732	67250
Aug-22	732	66250
Sep-22	677	66300
Oct-22	701	66900
Nov-22	640	65750
Dec-22	670	64750

738

806

867

65475

66825

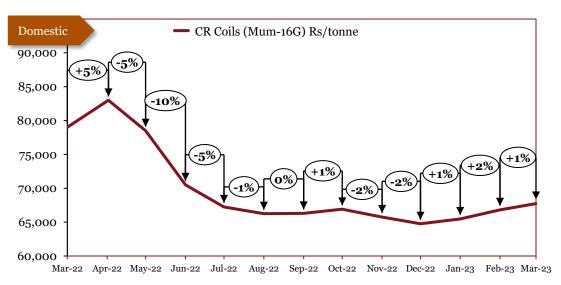
67750

Jan-23

Feb-23

Mar-23

Monthly Average Prices



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

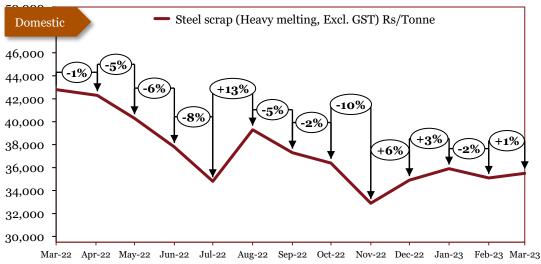
Source: Crisil

Source: Crisil

Outlook

In August, domestic prices fell slightly due to a fall in raw material (coking coal) prices. International prices remained stable. In September, domestic prices increased slightly due to a rise in raw material (coking coal) prices. International prices decreased due to lower buying activity as a result of economic uncertainty. In October, both international and domestic prices increased due to an increase in prices by steelmakers in accordance with higher coking coal prices. In November, prices declined in tandem with steel and HRC prices. In December, international prices increased as China ditched its "zero COVID" policy and adopted new economic stimulus measures, including new investments in infrastructure. Domestic prices decreased as steelmakers were forced to cut prices as a result of higher available stocks caused by weakening export markets. In January and February, prices increased due to a boost in demand as a result of the easing of restrictions in China and increased global inflation. In March, domestic prices increased as mills hiked prices due to elevated raw material prices like iron ore and coking coal, improved demand in the domestic market. International prices increased in tandem with iron ore prices.

Steel Scrap (Heavy Melting)



Source:	CRISIL

Monthly Average Prices		
Period *Dom		
	(Rs/Tonne)	
Mar-22	42800	
Apr-22	42300	
May-22	40300	
Jun-22	37800	
Jul-22	34800	
Aug-22	39300	
Sep-22	37300	
Oct-22	36400	
Nov-22	32900	
Dec-22	34900	
Jan-23	35900	
Feb-23	35100	
Mar-23	35500	

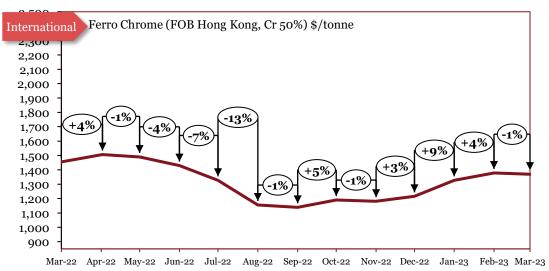
*The actual prices may vary depending on city, player, grade etc.

Outlook

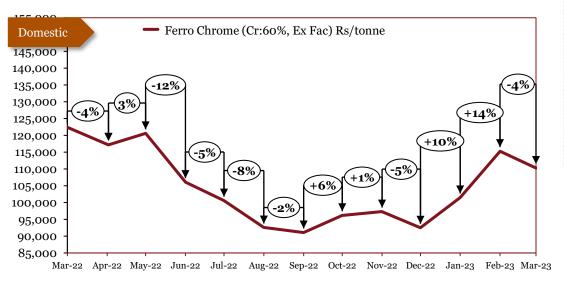
In April, prices fell slightly due to weaker demand from domestic steel mills and weaker prices into Turkey, which is a key buyer. In May, domestic prices fell due to low ingots sales. In July, prices fell amid an oversupply crisis, weakening of demand, and seasonal monsoon pressures. In August, prices increased on the back of a rise in demand from the automotive industry, owing to the onset of the festive season. In September, prices saw a downward trend due to considerable imports of cheaper bulk scrap from the US. In October, prices declined slightly due to reduced buying at steel scrap auctions, as a result of lower domestic consumption levels. In November, prices fell sharply due to the pile-up of finished inventory with steel mills post-export duty imposition, coupled with weak end-user demand and the resultant lower capacity utilization. In December and January, prices increased due to low availability during the winter period, as adverse weather conditions slowed down the collection and processing of scrap. In February, prices decreased due to the consequences of the Turkey-Syria earthquake. In March, prices increased due to inclement weather, low inventories, a reported shortage of prime steel scrap substitute DRI, and rising finished steel prices

Ferro-alloys

Ferro chrome







Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
Mar-22	1455	122400	
Apr-22	1507	117200	
May-22	1489	120600	
Jun-22	1430	106100	
Jul-22	1327	100600	
Aug-22	1156	92600	
Sep-22	1138	91100	
Oct-22	1190	96200	
Nov-22	1181	97300	
Dec-22	1216	92500	
Jan-23	1327	101500	
Feb-23	1378	115300	
Mar-23	1370	110300	

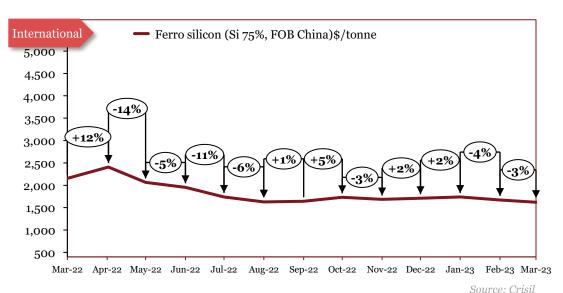
*The actual prices may vary depending on city, player, grade etc.

Source: Crisil

Outlook

In August, prices continued to trend downwards amid low liquidity levels and bearish market sentiments. In September, prices fell due to a fall in the price of raw materials (Iron). In October, domestic prices increased sharply owing to higher chrome ore prices, caused by a bullish response at OMC's chrome ore auction. International prices rose due to a shortage in supply, owing to reduced production at Chinese smelters as a result of Covid-19 restrictions. In November, international prices remained relatively stable. Domestic prices rose slightly as the NMDC hiked iron ore prices, which is a key raw material. In December, international prices increased in tandem with iron ore prices. Domestic prices decreased due to a decrease in the price of coking coal. In January and February, prices increased in tandem with chromium and iron ore prices. In February, prices increased due to the limited availability of chrome ores, a severe earthquake in Turkeyone of the biggest chrome ore producers, a Marked increase in load-shedding (planned power shutdowns) in South Africa, and reduced production of Asian ferrochrome producers. In March, prices fell amidst a bearish stainless-steel market.

Ferro silicon



	(\$/tonne)	(Rs/tonne)
Mar-99	9159	212450

Monthly Average Prices

*Dom

151550

*Int'l

Period

Mar-23

 Mar-22
 2153
 212450

 Apr-22
 2408
 192450

 May-22
 2063
 172450

 Jun-22
 1953
 165950

Jun-221953165950Jul-221739177450Aug-221628174950Sep-221642173950Oct-221732164350

 Sep-22
 1642
 173950

 Oct-22
 1732
 164350

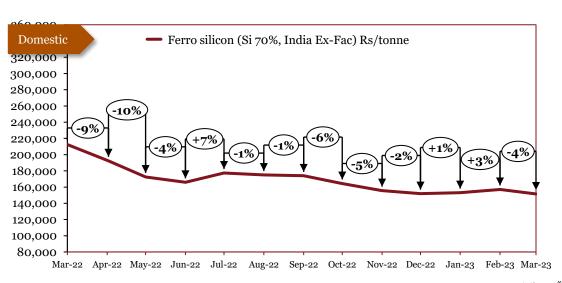
 Nov-22
 1684
 155650

 Dec-22
 1711
 151850

 Jan-23
 1739
 153050

 Feb-23
 1670
 157050

1622



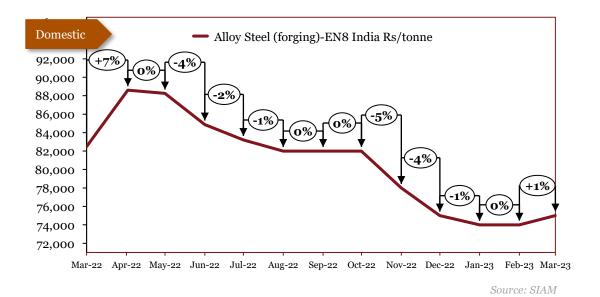
Source: Crisil

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

Outlook

In August, international prices fell due to a lack of consumer demand, driven strongly by falling futures prices and a lower number of bids/inquiries. Domestic prices remained relatively stable. In September, domestic prices declined due to tight liquidity which forced smelters to lower their prices, as well as low inquiries from importing countries. International prices increased because of an increase in the price of Silicon, a key raw material. In October, domestic prices fell as a result of a sharp decline in domestic demand. International prices increased on account of production cuts in China due to Covid-19 restrictions. In November, both international and domestic prices decreased due to limited end-user demand and lower trading volumes, as well as high inventory levels caused by various ferromanganese producers shifting to ferrosilicon. In December, international prices increased due to higher input costs. Domestic prices decreased in tandem with coking coal prices. In January, prices remained relatively stable in the face of moderate demand. In February, domestic prices inched up in anticipation of material shortage due to restrictions on imported material from sellers who did not have a BIS certificate. International prices decreased amidst fears of recession. In March, prices decreased due to sluggish demand and oversupply at the producers.

EN8 Alloy Steel (Forging)



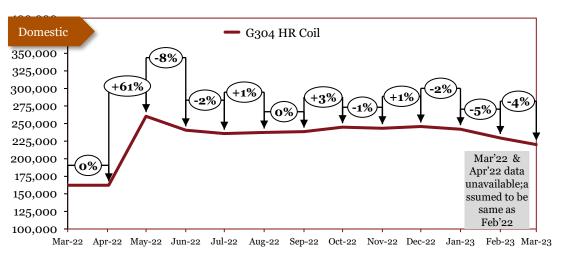
Monthly Average Prices		
Period	*Dom (Rs/tonne)	
Mar-22	82500	
Apr-22	88600	
May-22	88250	
Jun-22	84875	
Jul-22	83200	
Aug-22	82000	
Sep-22	82000	
Oct-22	82000	
Nov-22	78000	
Dec-22	75000	
Jan-23	74000	
Feb-23	b-23 74000	
Mar-23	75000	

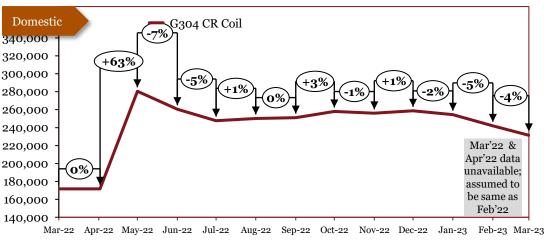
*The actual prices may vary depending on city, player, grade etc.

Outlook

In December, prices fell in accordance with steel prices, amid rising inventories at steel mills and a softening of demand. In January, prices fell in conjugation with stainless steel prices. In February, prices remained stable. In March, prices increase in tandem with steel prices. In April, prices continued to rise amid supply disruptions caused by the situations in South Africa and Ukraine. In May, domestic prices remained stable. In June, Decline in prices is due to a plunge in exports and stagnant demand. In July, domestic prices fell slightly due to lower demand on account of a lack of export orders. In August, prices fell slightly owing to price cuts by steel mills, along with a fall in demand from the automotive industry. In September, prices remained stable. In October, prices remained stable. In November, prices fell due to concerns over an impending global recession and geo-political unrest, leading to a decline in demand and a downturn in the metal cycle. In December, prices fell due to the higher availability of stocks caused by a slowdown in export markets and global recessionary pressures. In January, prices decreased in tandem with stainless steel prices. In February, prices remained stable. In March, prices rose in tandem with elevated raw material and energy costs.

Stainless Steel





Monthly Domestic Average Prices			
Period	*G304 HR	*G304 CR	
	(Rs/tonne)	(Rs/tonne)	
Mar-22	162200	171750	
Apr-22	162200	171750	
May-22	260500	280500	
Jun-22	240500	260600	
Jul-22	235750	247750	
Aug-22	237375	250250	
Sep-22	238500	251000	
Oct-22	245000	258000	
Nov-22	243400	256000	
Dec-22	245750	258750	
Jan-23	242000	254500	
Feb-23	229375	242000	
Mar-23	220200	231400	

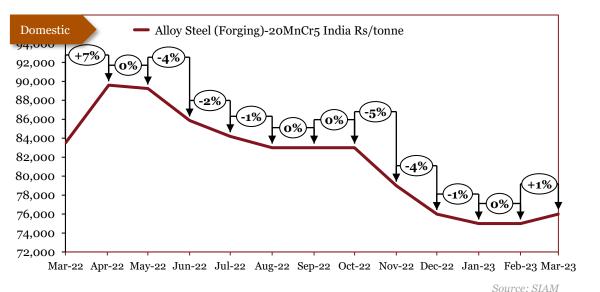
Source: SIAM

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

Outlook

In December, prices fell slightly further on account of concerns over the Omicron variant. In January, prices continued to decrease amid oversupply and weak demand. In February, prices rose marginally due to missing volumes from Russia and Ukraine, coupled with rising production costs. In March and April, prices were assumed to be stable owing to unavailability of data. In June, prices fell on back of imposition of export duty and crash in domestic steel prices. In July, weaker demand from construction and automobile industries led to decrease in prices. In August, prices increased slightly as a result of an increase in end-consumer demand, due to the onset of the festive season. In September, prices remained relatively stable. In October, prices increased amid a sharp rise in domestic demand due to the onset of the festive season. In November, prices remained relatively stable. In December, prices rose in tandem with rising input costs particularly nickel - caused by the Ukraine-Russian conflict and the resultant trade embargoes. In January, prices fell as vendor-managed inventory of stainless-steel factories increased sharply and the inventory under warrants also expanded to a high level. In February and March, prices dropped sharply due to weak demand amid fears of recession and high level of inventory at the producers.

20MnCr5 Alloy Steel (Forging)



Monthly Average Prices			
Period	*Dom (Rs/tonne)		
Mar-22	83500		
Apr-22	89600		
May-22	89250		
Jun-22	85875		
Jul-22	84200		
Aug-22	83000		
Sep-22	83000		
Oct-22	83000		
Nov-22	79000		
Dec-22	76000		
Jan-23	75000		
Feb-23	75000		
Mar-23	76000		

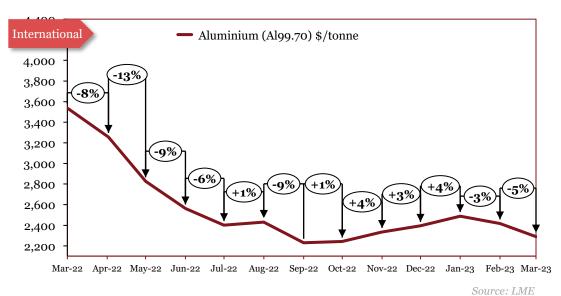
*The actual prices may vary depending on city, player, grade etc.

Outlook

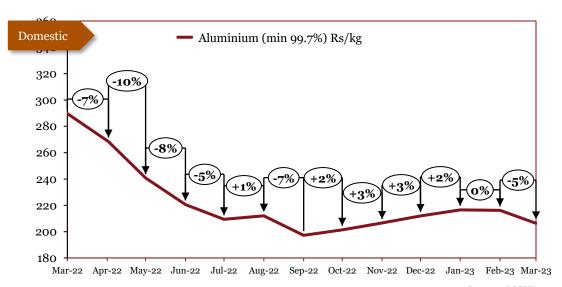
In October, prices rose amid a worsening of the power supply crisis. In November, prices rose amid speculations of steel production cuts in China. In December, prices fell in accordance with steel prices and a weakening of demand. In January, prices dropped in accordance with stainless steel prices. In February, prices remained stable. In March, prices rose in tandem with steel prices. In April, prices rose on account of supply disruptions caused by severe flooding in South Africa and the war in Ukraine. In May, prices remained stable. In June, prices fell in tandem with other steel alloys. In July, prices fell on account of a lack of buying enquiries from buyers and decrease in exports. In August, prices fell owing slightly to a sustained fall in demand from the automotive industry. In September, prices remained relatively stable. In October, prices remained stable. In November, prices fell due to subdued overseas demand - particularly in China which is a major consumer of stainless steel - and concerns over a global recession. In December, prices declined due to a slowdown in export markets amid global recessionary pressures. In December and January, prices rose in tandem with production costs- higher energy prices.

Base Metals

Aluminium



Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/kg)
Mar-22	3537	290
Apr-22	3256	268
May-22	2826	241
Jun-22	2563	221
Jul-22	2401	209
Aug-22	2431	212
Sep-22	2230	197
Oct-22	2243	201
Nov-22	2335	207
Dec-22	2394	212
Jan-23	2489	217
Feb-23	2417	216



Source: MCX*
*Source updated in July 2019

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

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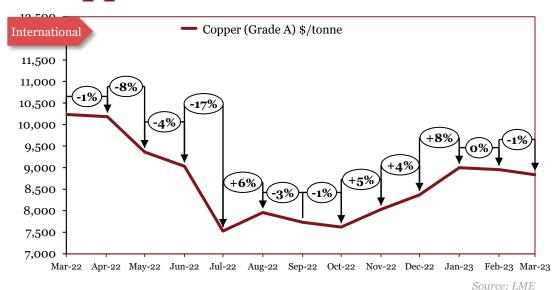
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Mar-23

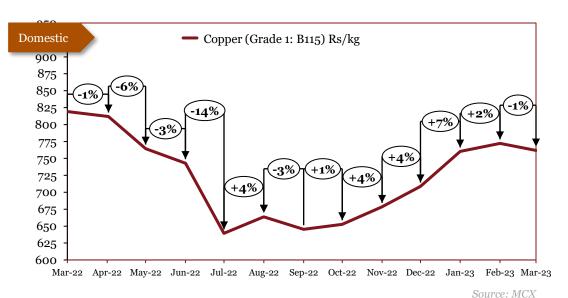
Outlook

In July, international prices fell due to weaker demand, caused by weaker premiums and recession concerns. In August, both domestic and international prices increased slightly owing to a growth in industrial demand in China, coupled with production cuts in European Aluminium smelters. In September, both international and domestic prices fell due to weak demand amid slow global economic growth and the US dollar reaching a two-decade-high. In October, domestic prices rose on account of lower supply levels, caused by production cuts in Chinese aluminium smelters. International prices remained relatively stable. In November, prices increased due to lower producer margins caused by soaring energy costs. In December, prices grew because of a rise in demand for low-carbon Aluminium caused by the importance placed on climate-friendly supply, along with higher demand for the light metal from the automotive industry. In January, prices rose due to increased tariffs, supply woes caused by the Shanghai smelter cutting production, and Chinese ingot inventories being de-stocked. In February, domestic prices remained relatively stable. International prices decreased due to a drop in worldwide demand and increasing production and logistic costs. In March, prices continued to fall due to slack demand, increasing stock inventories, and recessionary trends.

Copper



Monthly Average Prices		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
Mar-22	10237	819
Apr-22	10182	812
May-22	9362	764
Jun-22	9032	743
Jul-22	7529	639
Aug-22	7960	664
Sep-22	7734	645
Oct-22	7620	653
Nov-22	8029	678
Dec-22	8367	709
Jan-23	8999	760
Feb-23	8954	772
Mar-23	8835	762

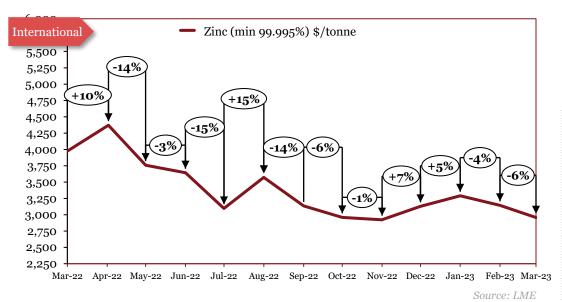


*The actual prices may vary depending on city, player, grade etc.

Outlook

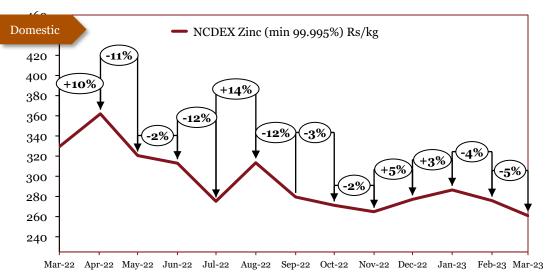
In September, prices fell due to a major usage hit from China where a troubled property sector has decreased demand for steel including zinc-coated galvanized steel and European smelters struggling to cope with soaring power prices. In October, domestic prices rose slightly on account of a rise in demand due to the onset of the festive season. International prices remained relatively stable. In November, prices increased due to low inventory levels and a seasonal rise in demand. In December, both international and domestic prices rose due to support projects being planned in the world's largest consumer of copper, coupled with an increase in demand from China due to an easing of restrictions. In January, prices surged due to a boost in demand for 'green' metals as the green transition accelerates, coupled with supply woes in Peru and operational issues in Latin America. In February, International prices decreased due to a slower-than-expected demand recovery, high U.S. interest rates, and an increase in scrap availability in the Chinese market. Domestic prices continue to rise on account of healthy buying inquiries amid a rise in LME futures. In March, international prices decreased due to inflation in the US in a downward trend, with market players betting on the US Fed to slow down interest rate hikes and weak supply.

Zinc



120110111 11 01 ugo 1 11000		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
Mar-22	3974	329
Apr-22	4370	362
May-22	3759	321
Jun-22	3643	313
Jul-22	3097	275
Aug-22	3572	314
Sep-22	3136	280
Oct-22	2959	271
Nov-22	2923	265
Dec-22	3128	277
Jan-23	3289	287
Feb-23	3143	276
Mar-23	2956	261

Monthly Average Prices



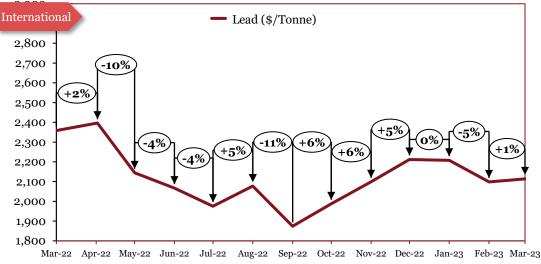
*The actual prices may vary depending on city, player, grade etc.

Outlook

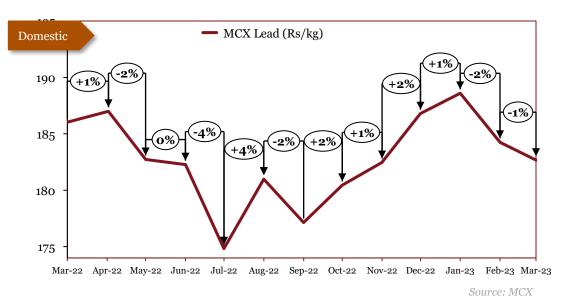
In August, prices rose sharply due to closure of Dutch mills on the back of the global energy crisis, along with production cuts in Chinese Zinc smelters. In September, prices fell due to a major usage hit from China where a troubled property sector has decreased demand for steel including zinc-coated galvanized steel and European smelters struggling to cope with soaring power prices. In October, both international prices declined due to lower demand in China, caused by lower economic activity. Domestic prices fell due to a fall in exports to China. In November, prices marginally declined due to a slowdown in demand caused by a sustained slump in China's economic activity, along with a rebound in the dollar. In December, both international and domestic prices increased on the back of tight supply amid reduced production in Europe due to higher energy costs, and higher demand due to easing of lockdown and quarantine measures in China. In January, prices increased due to higher costs of production as coal prices rose. In February prices tumbled due to the potential for a significant supply recovery and a return to zinc surplus after two years of shortfall. In March, prices fell as a result of continuing concerns about global economic growth, lack of momentum from China, weak manufacturing activity in the USA, and a stronger dollar.

Source: MCX*

Lead



Source: LME



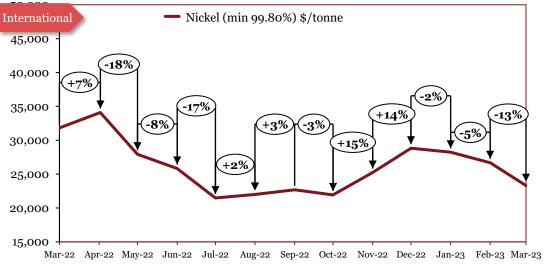
Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/kg)
Mar-22	2358	186
Apr-22	2396	187
May-22	2144	183
Jun-22	2067	182
Jul-22	1976	175
Aug-22	2077	181
Sep-22	1874	177
Oct-22	1987	180
Nov-22	2099	182
Dec-22	2212	187
Jan-23	2208	189
Feb-23	2098	184
Mar-23	2114	183

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

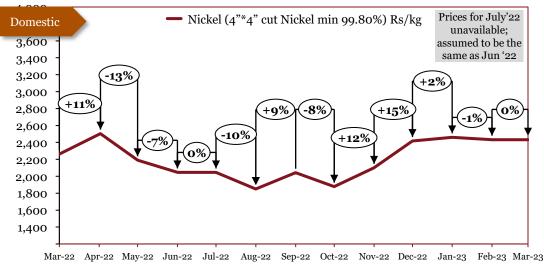
Outlook

In June, domestic prices remained stable. International prices going further low due to actions taken to confront inflation. In July, both international and domestic prices fell to their lowest levels in 12 months as a result of oversupply and inflation concerns. In August, prices increased due to an increase in demand for lead-acid batteries. In September, both domestic and international prices plummeted because of lower demand caused by a slowdown in global economic growth. In October, prices increased due to a fall in inventory levels of lead ingots - widely used to produce various lead-based products. In November, international prices rose sharply in anticipation of fund buying after Lead got included in the Bloomberg Commodity Index (BCOM). Domestic prices remained relatively stable. In December, international prices rose due to tight supply caused by lower production in mines worldwide, and a higher rate of automotive battery replacements caused by harsh weather conditions. Domestic prices remained relatively stable. In January, prices remained relatively stable. In February, prices decreased as the peak lead acid car battery replacement season of winter ended. In March, international prices increased due to slight acceleration in global lead demand, mainly due to the reopening of China's economy. Domestic prices remained relatively stable.

Nickel







Monthly Average Prices		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
Mar-22	31840	2261
Apr-22	34098	2504
May-22	27939	2189
Jun-22	25825	2046
Jul-22	21471	2046
Aug-22	21988	1850
Sep-22	22673	2043
Oct-22	21925	1877
Nov-22	25246	2100
Dec-22	28838	2418
Jan-23	28226	2460
Feb-23	26679	2433
Mar-23	23289	2433

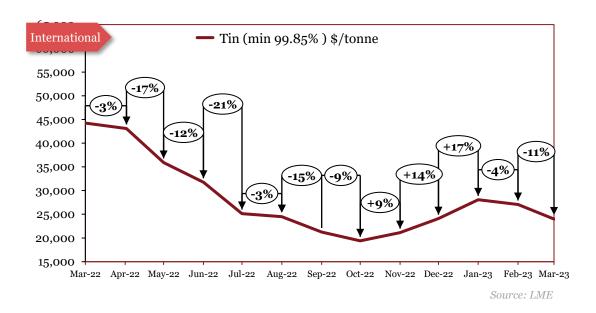
*The actual prices may vary depending on city, player, grade etc.

Source: MCX*

In July, international prices fell sharply due to lower industrial demand. In August, international prices rose on the back of increased demand from the EV-battery industry. Domestic prices fell as a result of lower input costs. In September, both domestic and international prices rose sharply due to a surge in buying from Russia and Nornickel, which account for 15-20% production of battery-grade Nickel in the world. In October, prices decreased as a result of lower end-user demand in China due to stronger Covid-19 restrictions caused by an increase in the number of cases. In November, both domestic and international prices increased sharply due to a surge in demand in the global EV market, and speculation of possible supply disruptions from Russian Class 1 producer Norilsk Nickel (Nornickel) .In December, prices rose due to tight supply coupled with higher downstream demand, especially for cathodes of electric vehicle batteries in China. In January, international prices decreased due to macroeconomic headwinds and a surplus of inventory. Domestic prices increased due to a surge in demand from the EV industry. In February, prices tumbled on expectations of easing supply tightness. In March, domestic prices remained stable. International prices fell due to concerns around the impact of Tsingshan's planned production switch.

Outlook

Tin



Monthly Average Prices			
Period	*Int'l (\$/tonne)		
Mar-22	44221		
Apr-22	43100		
May-22	35913		
Jun-22	31750		
Jul-22	25147		
Aug-22	24495		
Sep-22	21244		
Oct-22	19391		
Nov-22	21114		
Dec-22	24075		
Jan-23	28058		
Feb-23	27047		
Mar-23	23997		

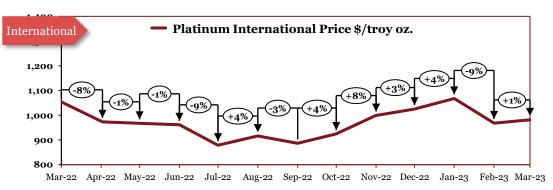
*The actual prices may vary depending on city, player, grade etc.

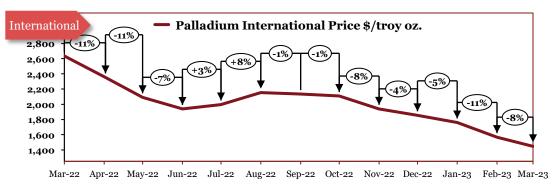
Outlook

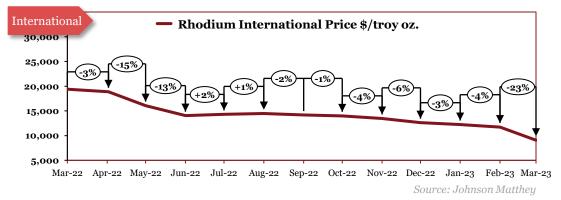
In July, prices hit their lowest level in 12 months on account of weaker demand for finished products. In August, prices continued to decrease as a result of a sharp increase in supply levels, primarily due to increased production of Chinese smelters. In September, prices fell sharply due to lower consumption in China caused by the US policy which cut China off from semiconductor chips made anywhere in the world with US tools leading to lower demand for tin which is used in soldering applications of the chips. In October, prices continued to decline sharply as a result of lower demand in China amid rising coronavirus cases and expanding restrictions. In November, prices rose sharply on account of a looming surge in demand for solar panels and batteries, both lead-acid and lithium-ion due to the green energy transition. In December, prices increased due to a surge in demand for industrial metals caused largely by the easing of restrictions in China. In January, prices increased as Chinese buyers scooped up the surplus metal creating a deficit for the world. In February, prices decreased as the global economy continues to slow and major economies fall into recession. In March, prices fell as the global demand outlook fell substantially on weakening macroeconomic fundamentals, a strengthening US dollar, and still high levels of global inflation.

Precious Metals

Precious Metals







Monthly Average Prices (\$/Oz)			
Period	Pt	Pd	Rh
Mar-22	1054	2636	19402
Apr-22	973	2352	18857
May-22	967	2091	16064
Jun-22	961	1939	14046
Jul-22	879	1996	14300
Aug-22	916	2154	14456
Sep-22	886	2134	14181
Oct-22	924	2108	13987
Nov-22	999	1940	13450
Dec-22	1025	1854	12626
Jan-23	1067	1761	12246
Feb-23	968	1567	11730
Mar-23	981	1447	9070

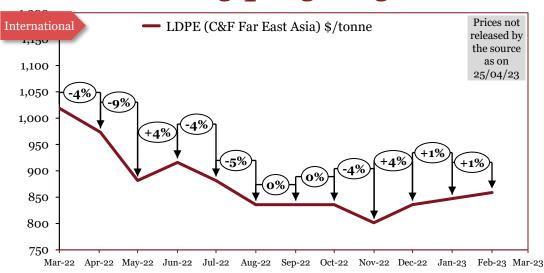
*The actual prices may vary depending on city, player, grade etc.

Outlook

In December, Platinum prices rose due to a surge in demand for auto catalysts. Palladium and Rhodium prices declined due to the aggressive tightening of monetary policies in response to elevated inflation rates. In January, platinum prices continued to rise due to strong demand from the auto industry - heavier loading of platinum on auto catalysts and a marked upturn in the adoption of hydrogen fuel cells (which uses platinum as a catalyst). Palladium prices fell as mines affected by weather-related incidents were back to their normal output levels. Rhodium prices decreased due to an ease in supply woes caused by the Russia-Ukraine war. In February, Palladium prices decreased as it is getting substituted by platinum because of an increase in the adoption of electric vehicles. Platinum and Rhodium prices fell as a result of the historically high USD index and high-interest rates. In March, Platinum prices increased due to sudden output cuts from the Opec+ producer cartel. Palladium prices fell as it has no role to play in the approaching hydrogen economy. Rhodium prices fell due to weak economic fundamentals, especially interest rate hikes by Central Banks worldwide.

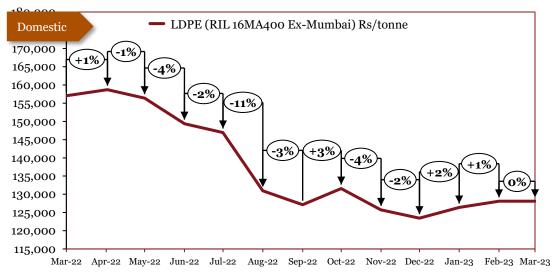
Polymers & Rubber

Low density polyethylene (LDPE)



	×T -17	W.T.
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
Mar-22	1019	157028
Apr-22	973	158692
May-22	882	156359
Jun-22	916	149359
Jul-22	882	146934
Aug-22	836	130941
Sep-22	836	127153
Oct-22	836	131591
Nov-22	802	125758
Dec-22	836	123439
Jan-23	847	126385
	: _	

Monthly Average Prices



 $Source: Reliance\ Industries\ Ltd.$

Source: Crisil

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

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Feb-23

Mar-23

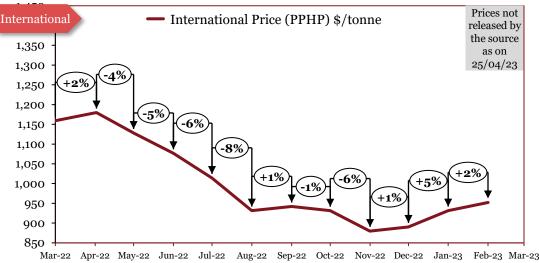
Outlook

In July, domestic prices fell slightly due to a reduction in crude oil prices and lower demand on account of the off-season. In August, prices fell sharply in tandem with crude oil prices. In September, the domestic price fell due to low feedstock ethylene costs. International prices remained unaffected. In October, domestic prices increased despite a price dip in ethylene due to a spike in oil prices. International prices remained stable. In November, domestic and international prices fell due to persistent dull demand, surplus inventories and lower import offers from overseas suppliers. In December, domestic prices fell in tandem with crude oil prices. International prices increased due to stronger demand from China after relaxation of COVID norms. In January, prices increased slightly in tandem with crude oil prices. In February, prices increased on the back of an improvement in demand from the agricultural sector and expectations of a rebound in Chinese demand in the post-holiday period. In March, domestic prices remained stable.

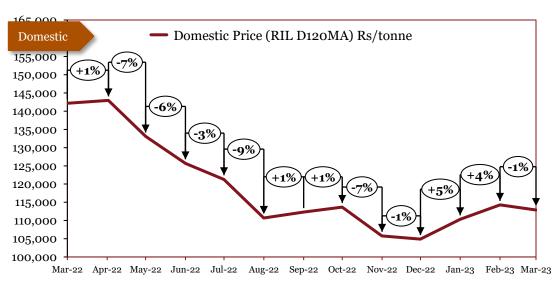
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Polypropylene (PP)







Monthly Average Frices							
Period	*Int'l	*Dom					
	(\$/tonne)	(Rs/tonne)					
Mar-22	1159	142179					
Apr-22	1180	142968					
May-22	1128	142968					
Jun-22	1076	125668					
Jul-22	1014	121279					
Aug-22	932	110698					
Sep-22	942	112298					
Oct-22	932	113702					
Nov-22	880	105802					
Dec-22	890	104896					
Jan-23	932	110342					
Feb-23	952	114285					
Mar-23		112908					

Monthly Average Prices

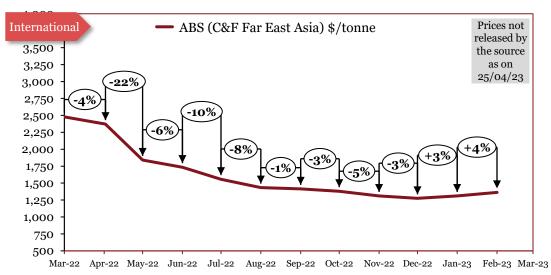
Source: Reliance Industries Ltd.

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

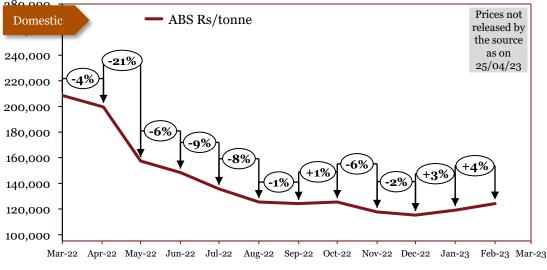
Outlook

In September, prices slightly increased due to higher energy prices adding to the cost pressure in the market. In October, domestic prices rose in response to stronger upstream propylene and active buying interest across several key markets, coupled with a rise in oil prices. In October, international prices decreased on the back of a low rate of consumption from the construction sector, and a pile-up of inventories with suppliers. In November, domestic and international prices fell due to a decrease in crude oil prices. In December, prices decreased due to an increase in supply as a result of lower exports, coupled with a slump in demand caused by fears of a recession. International prices remained relatively stable. In January, prices increased due to a significant increase in Prices for feedstock Polymer-Grade Propylene (PGP) in North America. In February, prices increased as propylene and crude oil prices increased. In March, prices fell in tandem with crude oil prices,

Acrylonitrile Butadiene Styrene (ABS)







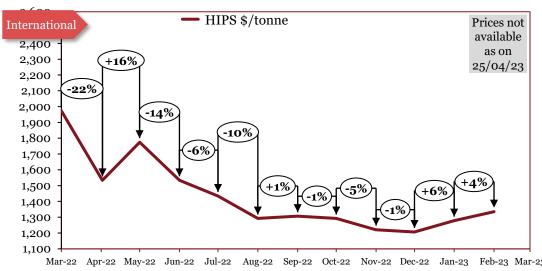
Monthly Average Prices						
	*Int'l	*Dom				
Period	(\$/tonne)	(Rs/tonne)				
Mar-22	2478	208640				
Apr-22	2372	199680				
May-22	1841	157440				
Jun-22	1735	148480				
Jul-22	1558	135680				
Aug-22	1434	125440				
Sep-22	1416	124160				
Oct-22	1381	125440				
Nov-22	1310	117760				
Dec-22	1274	115200				
Jan-23	1310	119040				
Feb-23	1363	124160				
Mar-23						

Source: Crisil

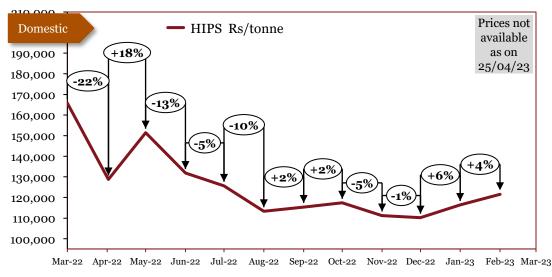
Outlook

In June. Both international and domestic prices fell to their lowest levels in 18 months due to lower crude oil prices, the ban on single-use plastics in many countries and excess supply. In July, prices fell due to the reduction in crude oil prices, as a result of geo-political tensions. In August, domestic prices fell because of cheap import options available from China and South Korea. International prices fell due to a fall in Styrene prices, which is a key feedstock ingredient in ABS production. In September, prices declined owing to a sustained fall in Styrene prices - a key raw material in the production of ABS. In October, domestic prices rose in tandem with crude oil and coal prices. In October and November, international prices fell due to price drops in the three feedstocks, i.e., Acrylonitrile, Butadiene, and Styrene. In December, prices fell sharply in tandem with crude oil prices. In January and February, prices increased due to stability in production activities, a rise in crude oil prices combined with an increase in feedstock costs (Acrylonitrile and Butadiene), and a recovery in downstream offers.

High Impact Polystyrene (HIPS)



Source: Crisil



	*Int'l	*Dom			
Period	(\$/tonne)	(Rs/tonne)			
Mar-22	1974	165830			
Apr-22	1534	128750			
May-22	1775	151410			
Jun-22	1534	131840			
Jul-22	1434	125660			
Aug-22	1292	113300			
Sep-22	1306	115360			
Oct-22	1292	117420			
Nov-22	1221	111240			
Dec-22	1207	110210			
Jan-23	1278	116390			
Feb-23	1335	121540			
Mar-23					

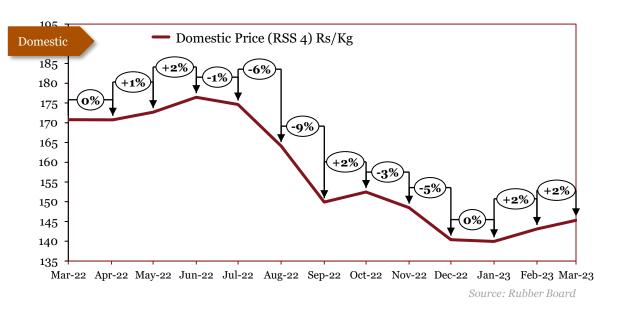
Monthly Average Prices

Source: Crisil

Outlook

In March, prices continued to rise steeply along with crude oil prices. In April, prices decreases along with decrease in crude oil prices. In June, both international and domestic prices fell sharply due to a decrease in crude oil prices, ban on single-use plastics in various countries, and excess supply. In July, prices decreased due to sluggish demand in end-user markets, such as the automotive and home appliance sectors. In August, domestic prices fell because of a decline in the demand of plastics for packaging and insulation applications. International prices fell due to diminishing prices of crude oil in the international market. In September, prices increased slightly due to higher energy costs. In October, international prices fell due to low end-consumer demand caused by rising concerns over an economic slowdown and a slowdown in the construction sector. Domestic prices rose on account of the high input cost of coal and crude oil. In November, International prices fell in tandem with crude oil prices. Domestic prices remained stable. In December, prices fell sharply in tandem with the price of crude oil. In January and February, prices increased as crude oil prices stabilized.

Rubber



Monthly Average Prices					
Period	*Dom				
	(Rs/kg)				
Mar-22	171				
Apr-22	171				
May-22	173				
Jun-22	176				
Jul-22	175				
Aug-22	164				
Sep-22	150				
Oct-22	152				
Nov-22	149				
Dec-22	140				
Jan-23	140				
Feb-23	143				
Mar-23	145				

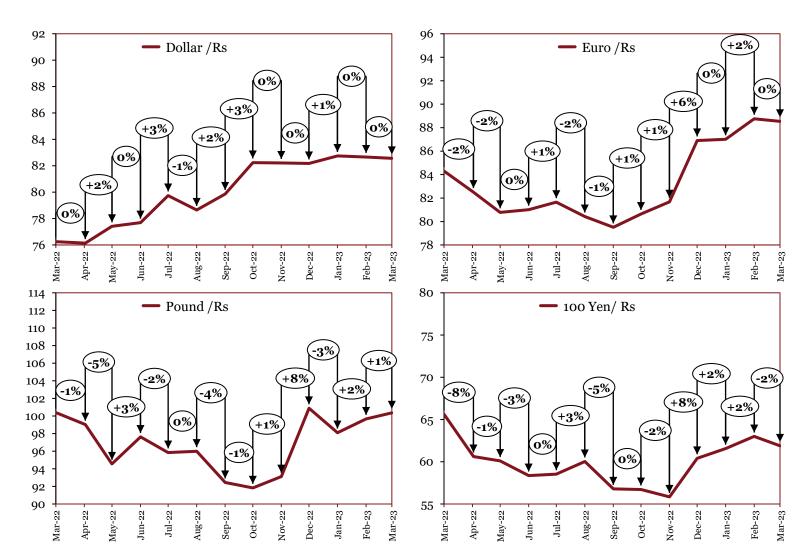
*The actual prices may vary depending on city, player, grade etc.

Outlook

In April, prices remained stable. In May, prices increased slightly in tandem with crude oil prices. In June, prices rose slightly due to higher input costs. In July, prices decreased slightly due to lower demand on account of the monsoon season. In August, prices decreased sharply as a result of erratic rainfall, subdued industrial demand, and a bearish outlook in international markets. In September, prices continued to fall as a result of lower crude oil prices and increased production leading to excess supply. In October, prices increased due to a rise in domestic demand; in tandem with crude oil prices. In November, prices declined due to lower demand from tire-makers and other domestic bulk buyers, particularly in Kerala's key markets. In December, prices declined on the back of poor demand from the tyre market, along with the onset of the peak tapping season. In January and February, prices remained relatively stable. In March, prices increased due to reduced production from the other major producers of rubber -Thailand, Malaysia, and Indonesia.

Appendices

Forex Movement

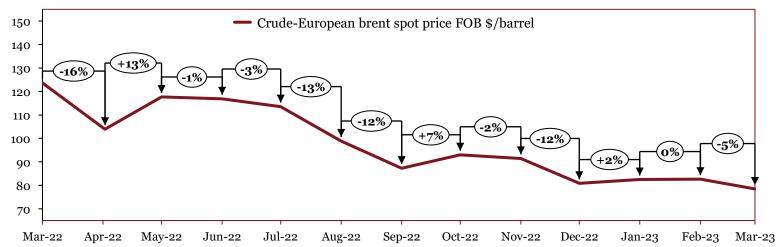


Source: SIAM

	Monthly Average Prices (Rs)												
	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
\$	76	76	77	78	80	79	80	82	82	82	83	83	83
£	100	99	95	98	96	96	92	92	93	101	98	100	100
€	84	83	81	81	82	80	80	81	82	87	87	89	89
¥	66	61	60	58	59	60	57	57	56	60	62	63	62

Crude Oil

Source: SIAM



Monthly Average Prices (\$/barrel)												
Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
124	104	118	117	114	99	87	93	91	81	82	83	78

Commodity Specifications

Commodity	International	Domestic
Iron Ore	IOECI635 Index (CIF China) - (Fe63.5%) CIF China	Crisil - Grade 1: 58% to below 60% Fe Fines - Grade 2: 60% to below 62% Fe Fines - Grade 3: 62% to below 65% Fe Fines - Grade 4: 65% and above Fe Fines
Pig Iron	Crisil -Foundry grade FOB CIS	Crisil -Foundry grade ex-factory, India
Stainless steel	NA	PwC Research -G 304 CR Coil -G 304 HR Coil
Wire rod	Crisil -CIS Black Sea (US \$/Tonne)	Crisil - Wire rods: 5.5 mm (Prices are inclusive of excise duty by exclusive of VAT/Sales tax)
Steel Billets	Crisil -FOB CIS Black Sea Previously: 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 chrome	Crisil : FOB Hong Kong Cr 50%	Crisil: Ex-factory Cr 60%
Ferro silicon	Crisil - FOB China Si 75%	Crisil - Ex-factory Si 70%

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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 •ISO 752:2004 - 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
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%

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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			
Platinum	Metal in sponge form with minimum pur and 99.9% for rhodium	ities of 99.95% for platinum and palladium,			
Palladium	and 99.9% for modium				
Rhodium					
Low density polyethylene (LDPE)	International price (C&F FEA) \$/tonne	RIL-16MA400 grade			
Polypropylene (PP)	International Price (PPHP) \$/tonne	RIL-D120MA grade			
Acrylonitrile Butadiene Styrene (ABS)	International price (C&F FEA) \$/tonne	Landed Cost Rs/tonne			
High Impact Polystyrene (HIPS)	International price \$/tonne	Landed Cost Rs/tonne			
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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