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Commodity price monitor May-23

Prepared for ACMA

Strictly private and confidential

May 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	28.51%	_	
	Domestic low grade			
	Domestic high grade			
Pig Iron	International	12.87%	A	
	Domestic	10.11%	A	
Stainless steel	Domestic			-7.01%
	Domestic			-6.59%
Wire rod	International	31.96%	A	
	Domestic	8.85%	A	
Steel Billets	International	11.30%	A	
	Domestic	3.88%	A	
Hot-rolled coils	International	30.79%	_	
	Domestic	22.76%	A	
Cold-rolled coils	International	35.15%	A	
	Domestic	23.57%	A	
Steel Scrap	Domestic	15.45%	_	
EN8	Domestic	8.08%	_	
20MnCr5	Domestic	7.97%		
Ferro-alloys				
Ferro titanium	International	N/A		
Ferro chrome	International			-2.52%
Ferro ciirome	Domestic	1.08%	A	
Ferro molybdenum	International	N/A		
Ferro vanadium	International	N/A		
Form cilicon	International	10.55%	_	
Ferro silicon	Domestic	18.32%	_	

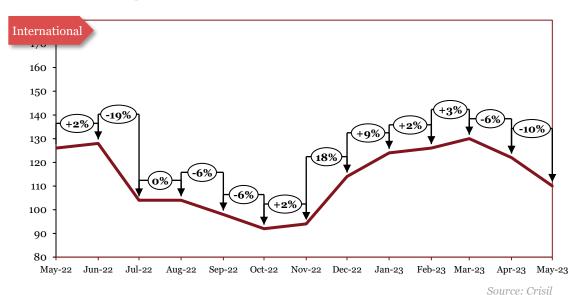
Commodity trend dashboard Quarter-on-Quarter changes (2/2)- Rolling view

Calendar Year 2022: Q vs. Q update

Commodity	Region	Q-o-Q Up	Q-o-Q Down
Base Metals			
Aluminum	International	14.69%	
Alullillulli	Domestic	13.58%	
Connor	International	14.53%	
Copper	Domestic	13.67%	
Zinc	International	6.71%	
ZIIIC	Domestic	6.83%	
Lood	International	5.28%	
Lead	Domestic	4.18%	
Nielel	International		-1.60%
Nickel	Domestic		-0.03%
 -	International	23.19%	
Tin	Domestic	N/A	
Magnesium	International	N/A	
Precious Metals			
Platinum	International	1.93%	
Palladium	International	15.90%	
Rhodium	International	11.49%	
Polymers			
	International	0.84%	
Low density polyethylene (LDPE)	Domestic	6.61%	
0-1(00)	International		-2.92%
Polypropylene (PP)	Domestic	5.57%	
A 1 1 D 1 (ADC)	International	12.53%	
Acrylonitrile Butadiene Styrene (ABS)	Domestic	13.70%	
0.5	International	10.54%	
Polystyrene (PS)	Domestic	14.59%	
Rubber	Domestic	6.82%	
Currency Exchange			
Dollar	International	1.25%	
Pound	International	0.92%	
Euro	International	2.37%	
Yen	International		-2.12%

Iron & Steel

Iron Ore



Monthly Average Prices				
	*Int'l	*Dom Rs/tonne		
Period	\$/tonne			
		65% & below	65% & above	
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	
Jan-23	124	3346	4484	
Feb-23	126	3821 4906		
Mar-23	130			
Apr-23	122			
May-23	110			

17.000	
Domestic	Prices not
15,000 †	released by
14,000 -	the source
13,000	as on 25/06/23
12,000 -	25/00/23
11,000	
10,000	
9,000	
8,000 -13%)	
7,000	
6,000	
5,000	
4,000	
3,000 -	
2,000	, , , , , , , , , , , , , , , , , , ,
May-22 Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Fel	b-23 Mar-23 Apr-23 May-23

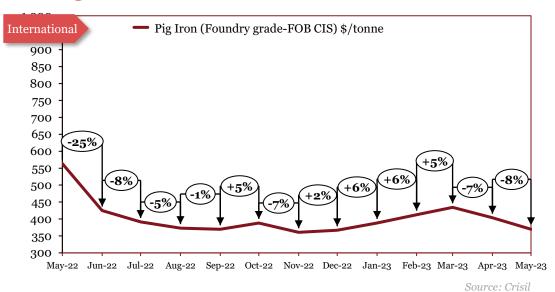
Source: Crisil

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

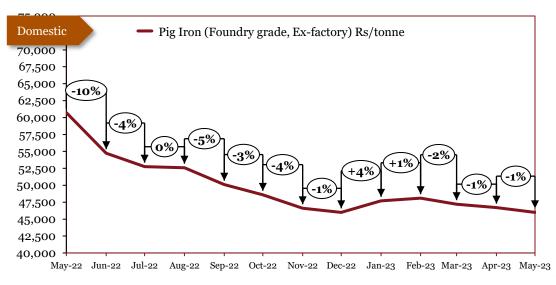
Outlook

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. In April, international prices fell amid weak demand from Chinese steelmakers and increased inventories at Chinese ports. In May, prices decreased due to increased supply in an already flooded market as several companies ramped up production amid lower raw material costs.

Pig Iron



Monthly Average Frices		
Period	*Int'l	*Dom
	\$/tonne	Rs/tonne
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
Apr-23	403	46700



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

370

May-23

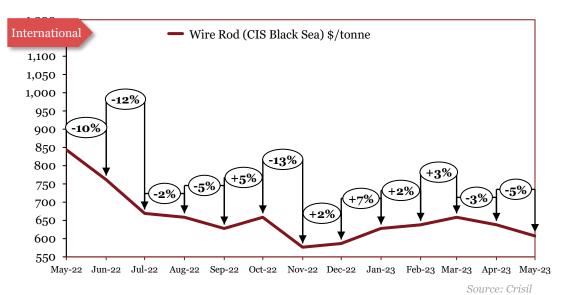
Source: Crisil

Outlook

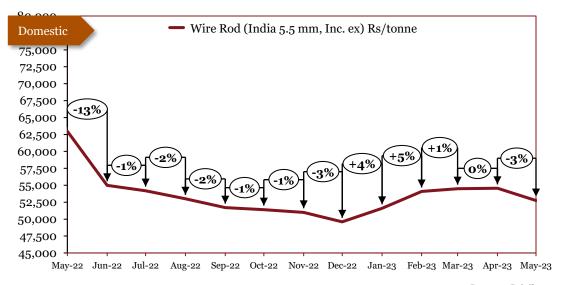
In October, domestic prices fell due to lower auction volumes at steel plants as a result of subdued domestic demand - due to the festive season - coupled with an inventory pile-up at steel mills. International prices rose due to a rise in coking coal prices. In November, international and domestic prices 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. In April, prices decreased due to a negative correction in coal and coke prices. In May, domestic prices plummeted as coking coal prices fell by almost 15%. International prices decreased due to subdued steel demand caused by high inflation and liquidity crunch.

46000

Wire Rod







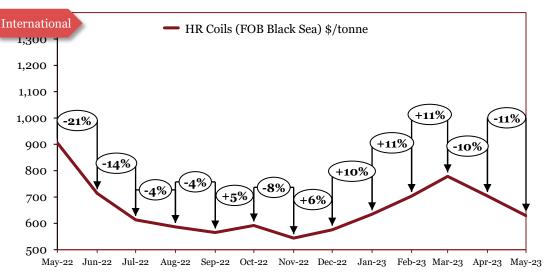
*The actual prices may vary depending on city, player, grade etc.

Source: Crisil

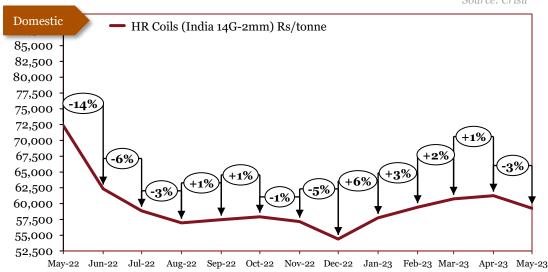
Outlook

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. In April, domestic prices remained stable. International prices decreased in tandem with steel and coking coal prices. In May, prices plummeted in tandem with coking coal prices and a fall in steel demand from the real estate sector in China.

Hot-Rolled (HR) Coils







Monthly Average Prices			
Period	*Int'l	^*Dom	
	(\$/tonne)	(Rs/tonne)	
May-22	906	72350	
Jun-22	714	62350	
Jul-22	613	58850	
Aug-22	586	56950	
Sep-22	565	57450	
Oct-22	592	57900	
Nov-22	544	57150	
Dec-22	576	54400	
Jan-23	634	57725	
Feb-23	704	59425	
Mar-23	778	60750	
Apr-23	704	61250	
May-23	629	59250	

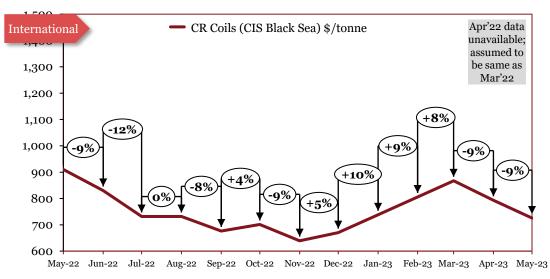
Source: Crisil

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

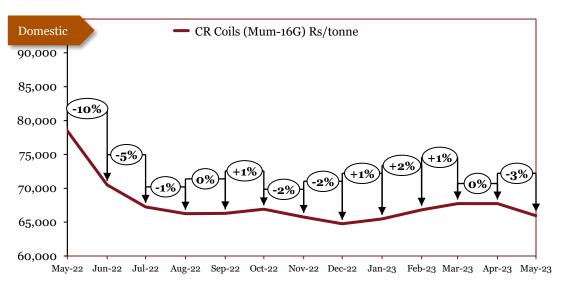
Outlook

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. In April, domestic prices increased as Indian mills hike prices amid strong exports. International prices fell due to reduced demand caused by high-interest rates, a fall in iron ore prices, a surplus in the market after an initial surge in Chinese demand, and a global economic slowdown. In May, domestic prices decreased due to a slowdown in global demand, an influx of cheap imports from far-eastern Asia and Russia, and the government's decision not to increase import duties on rental cars increasing competition in the market. International prices fell as trade in the products came to a halt due to a lack of demand because of negative market sentiment, influenced by the uncertainty of the Chinese market and negative macroeconomic factors, and consistently high supply and inventories in China during the period of suspension of purchases during the holidays.

Cold-Rolled (CR) Coils



Monthly Average Prices			
Period *Int'l ^*Dor		^*Dom	
	(\$/tonne)	(Rs/tonne)	
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	
Jan-23	738	65475	
Feb-23	806	66825	
Mar-23	867	67750	
Apr-23	793	67750	
Mav-23	726	65950	



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

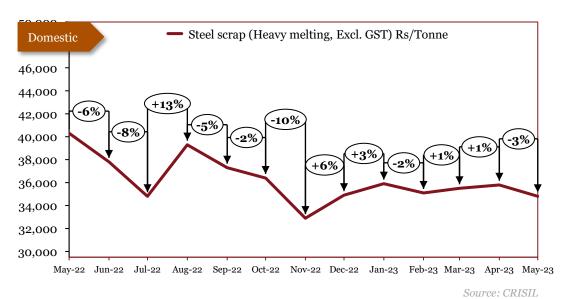
Source: Crisil

Source: Crisil

Outlook

. 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, which improved demand in the domestic market. International prices increased in tandem with iron ore prices. In April, international prices fell in tandem with HRC prices. Domestic prices remained stable. In May, domestic prices decreased in tandem with iron ore and coking coal prices. International prices decreased. International prices decreased amid uncertainty and market concerns about the macroeconomic prospects.

Steel Scrap (Heavy Melting)



Monthly Average Prices		
Period	*Dom	
	(Rs/Tonne)	
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	
Apr-23	35800	
May-23	34800	

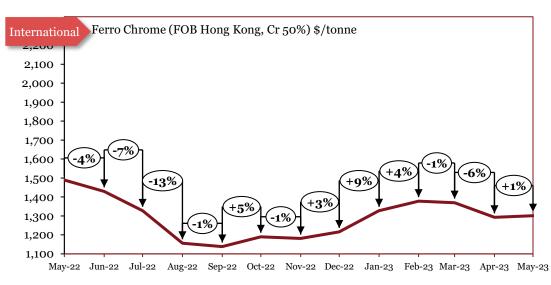
*The actual prices may vary depending on city, player, grade etc.

Outlook

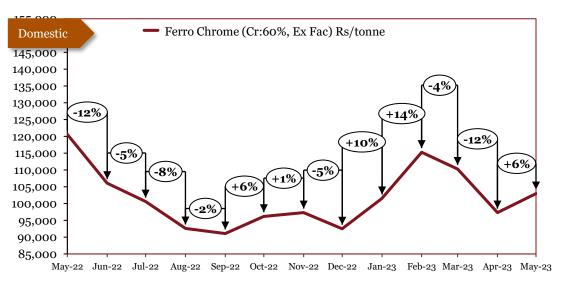
In May, domestic prices fell due to weaker demand for finished steel. In June, domestic prices fell due to low ingots sales. In July, prices fell amid an oversupply crisis, weakening of demand, and seasonal monsoon pressures. In August, prices increased on the back of a rise in demand from the automotive 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. In April, prices increased slightly due to tight supply caused due to supply chain issues in Turkey. In May, prices decreased due to a decrease in steel prices and declining import offers.

Ferro-alloys

Ferro chrome







Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
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	
Apr-23	1293	97300	
May-23	1301	103000	

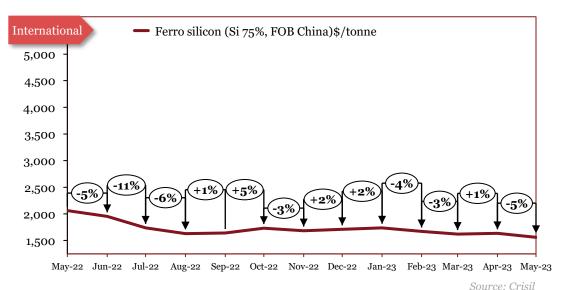
*The actual prices may vary depending on city, player, grade etc.

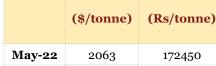
Source: Crisil

Outlook

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 Turkey- one 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. In April, prices decreased due to a fall in input costs (iron ore and coking coal), oversupply at Chinese mills, and weak demand from both domestic and export markets. In May, prices increased due to scarce availability and high demand.

Ferro silicon





*Int'l

Period

Nov-22

Dec-22

Jan-23

Feb-23

Mar-23

Apr-23

May-23

Monthly Average Prices

*Dom

164350

155650

151850

153050

157050

151550

151850

154350

Jun-22 1953 165950 Jul-22 1739 177450 Aug-22 1628 174950 Sep-22 1642 173950 Oct-22

1732

1684

1711

1739

1670

1622

1635

1559

060.000	
Domestic	Ferro silicon (Si 70%, India Ex-Fac) Rs/tonne
320,000	
300,000 -	
280,000 -	
260,000 -	
240,000 -	
220,000 +7	(+1%)
200,000 - (-4%)	- H-1%H - 1
180,000	+3%
160,000 -	
140,000 -	
120,000	
100,000 -	
80,000	
May-22 Jun-22	Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-2

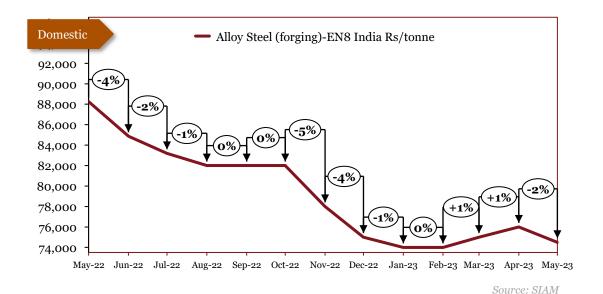
Source: Crisil

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

Outlook

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. In April, prices rose due to an increased supply crunch in the domestic (labor issue in Bhutan) and global markets (power curtailment in the Ningxia region of China). In May, international prices fell in tandem with iron ore and coking coal prices. Domestic prices increased due to low production caused by power outages in north-east India, a major production center.

EN8 Alloy Steel (Forging)



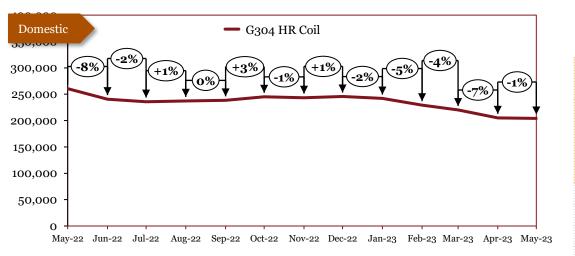
Monthly Average Prices		
*Dom Period (Rs/tonne		
May-22	88250	
Jun-22	84875	
Jul-22	83200	
Aug-22	82000	
Sep-22	82000	
Oct-22	82000	
Nov-22	78000	
Dec-22	75000	
Jan-23	1-23 74000	
Feb-23	74000	
Mar-23	75000	
Apr-23 76000		
May-23	74500	

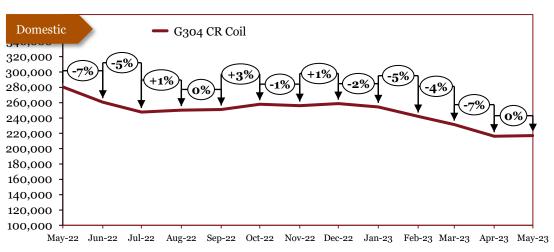
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In April, prices increased slightly due to a positive market outlook. In May, prices decreased in tandem with coking coal prices.

Stainless Steel





Monthly Domestic Average Prices			
Period	*G304 HR (Rs/tonne)	*G304 CR (Rs/tonne)	
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	
Apr-23	205188	216250	
May-23	204000	217000	

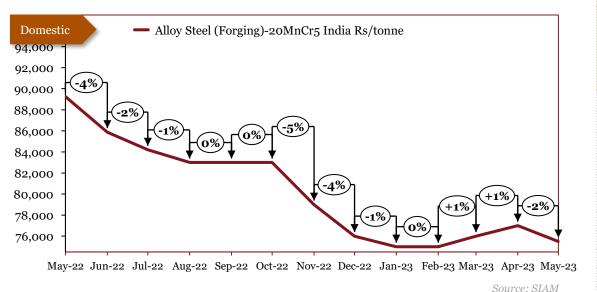
Source: SIAM

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

Outlook

In March and April, prices were assumed to be stable owing to the unavailability of data. In June, prices fell on the back of the imposition of export duty and crash in domestic steel prices. In July, weaker demand from construction and automobile industries led to a 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 a high level of inventory at the producers. In April and May, prices decreased due to a drop in raw material prices, rising stock levels, higher interest rates impeding downstream construction & automotive sector, and fears of recession.

20MnCr5 Alloy Steel (Forging)



Monthly Average Prices			
*Dom Period (Rs/tonne)			
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		
Apr-23	Apr-23 77000		
May-23 75500			

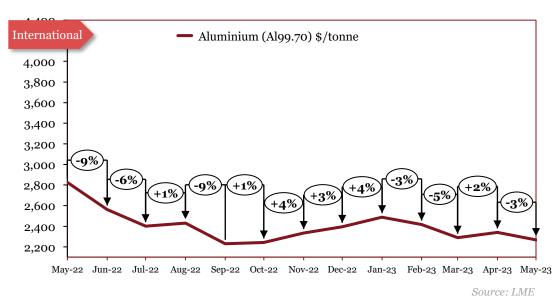
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Outlook

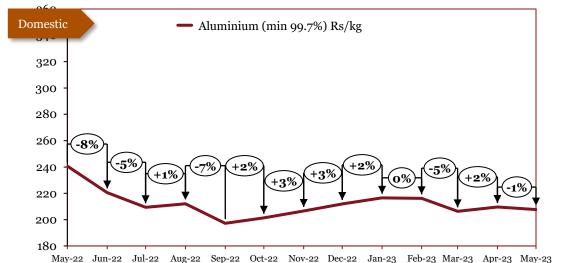
In December, prices fell in accordance with steel prices and a weakening of demand. In January, prices dropped in accordance with stainless steel prices. In February, prices remained stable. In March, prices rose in tandem with steel prices. In April, prices rose on account of supply disruptions caused 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 declined due to a slowdown in export markets amid global recessionary pressures. In February, prices remained stable. In March and April, prices rose in tandem with production costs- higher energy and steel scrap prices. In May, prices decreased in tandem with steel scrap and coking coal prices.

Base Metals

Aluminium



Monthly Average Prices		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
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
Mar-23	2290	206
Apr-23	2341	210
May-23	2267	208



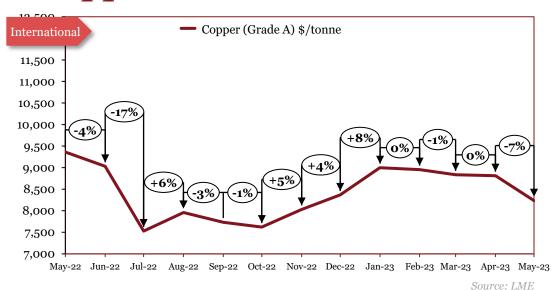
Source: MCX*
*Source updated in July 2019

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

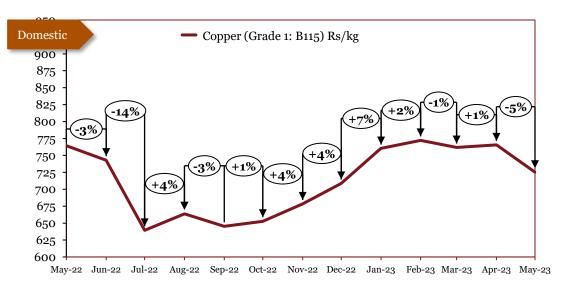
Outlook

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. In April, prices increased because of spurred consumption due to a lower US Dollar and power cuts in China affecting Aluminium smelters. In May, domestic prices remained relatively stable. International prices decreased as output increased and inventories rose amid tepid demand for the metal used in the auto, packaging and construction sectors.

Copper



Monthly Average Prices		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
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
Apr-23	8813	766
May-23	8234	725



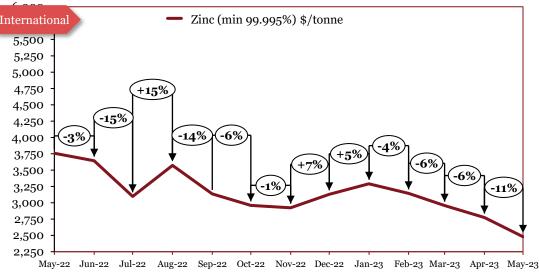
*The actual prices may vary depending on city, player, grade etc.

Source: MCX

Outlook

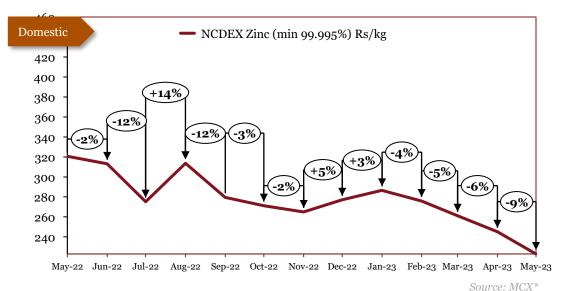
In November, prices increased due to low inventory levels and a seasonal rise in demand. In December, both international and domestic prices rose due to support projects being planned in the world's largest consumer of copper, coupled with an increase in demand from China due to an easing of restrictions. 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. In April, international prices continued a downward trend due to weak global demand caused by rising interest rates, high inventories, and a global slowdown. Domestic prices remained relatively stable. In May, prices continued a downward trend due to contracting manufacturing activity and slumping industrial profits in China.

Zinc





Source: LME



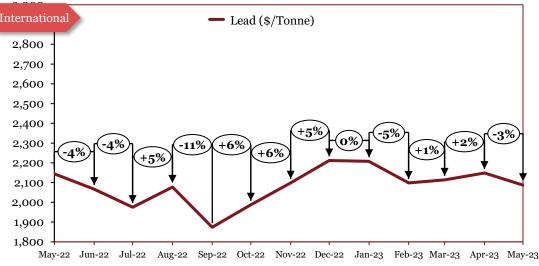
Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/kg)
May-22	3759	321
Jun-22	3643	313
Jul-22	3097	275
Aug-22	3572	314
Sep-22	3136	280
Oct-22	2959	271
Nov-22	2923	265
Dec-22	3128	277
Jan-23	3289	287
Feb-23	3143	276
Mar-23	2956	261
Apr-23	2772	245
May-23	2477	223

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

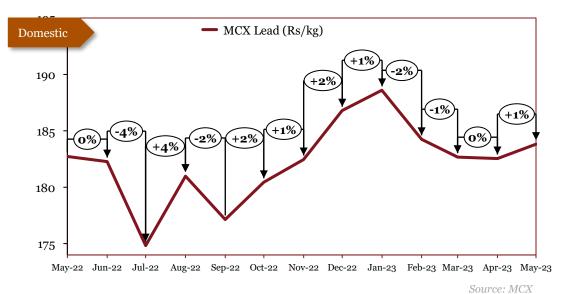
Outlook

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 the 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. In April, prices plummeted due to the flagging global economy, vulnerable US banking sector, and higher inventory levels, and resumed operations in France's smelters. In May, prices fell due to interest rate hikes, dollar strength, an increase in smelter supply, and weaker-than-expected economic recovery in China -- biggest consumer of zinc.

Lead



Source:	LME



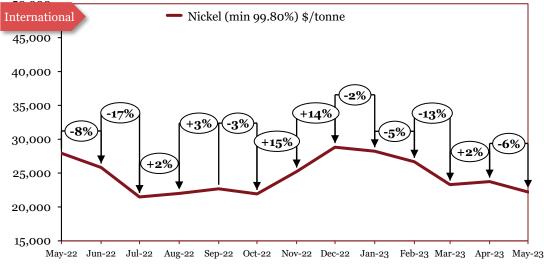
Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/kg)	
May-22	2144	183	
Jun-22	2067	182	
Jul-22	1976	175	
Aug-22	2077	181	
Sep-22	1874	177	
Oct-22	1987	180	
Nov-22	2099	182	
Dec-22	2212	187	
Jan-23	2208	189	
Feb-23	2098	184	
Mar-23	2114	183	
Apr-23	2148	183	
May-23	2087	184	

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

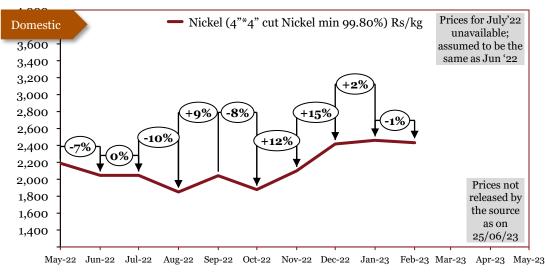
Outlook

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 a slight acceleration in global lead demand, mainly due to the reopening of China's economy. Domestic prices remained relatively stable. In April, international prices increased due to supply chain disruptions as Russia- the world's seventh-largest producer of lead launched a fresh offensive against Ukraine. Domestic prices remained relatively stable. In May, international prices continued a downward trend due to slower global activity, low growth in China's property sector due to high debt levels, and only services-oriented recovery in China. Domestic prices remained stable.

Nickel



Source:	LME



Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/kg)	
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	
Apr-23	23749	2433	
May-23	22215	2433	

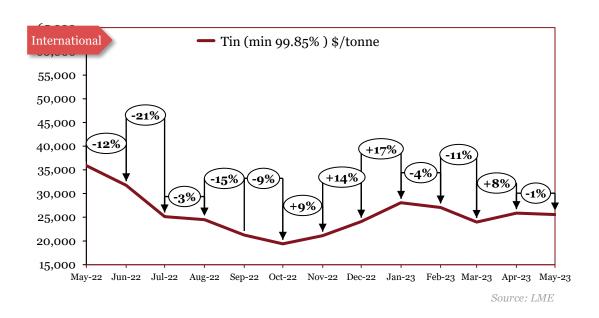
Source: MCX*

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

Outlook

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 about the impact of Tsingshan's planned production switch. In April, international prices increased as the US dollar index weakened, and low inventory levels of refined nickel. Domestic prices were relatively stable. In May, International prices decreased after the release of disappointing trade data from top industrial metals consumer China. Domestic prices remained stable.

Tin



Monthly Average Prices		
*Int'l Period (\$/tonne		
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	
Apr-23	25866	
May-23	25586	

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

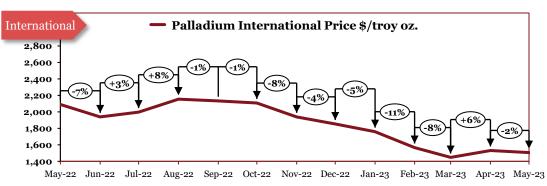
Outlook

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. In April, prices increased as tin mining was suspended in Myanmar- the world's third-largest tin producer. In May, prices fell as the global demand outlook fell substantially on weakening macroeconomic fundamentals.

Precious Metals

Precious Metals







Monthly Average Prices (\$/Oz)			
Period	Pt	Pd	Rh
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
Apr-23	1062	1532	7881
May-23	1073	1505	7383

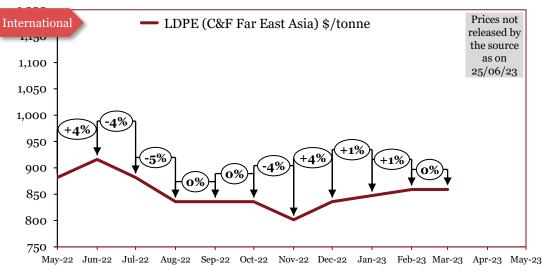
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In April, Platinum prices increased due to power cuts in South Africa, the war in Ukraine, and the increased production of hybrid cars. Palladium prices increased as hostilities were renewed between Russia -the world's second-largest palladium producer and Ukraine. Rhodium prices decreased due to weak demand from the automotive sector caused by fears of economic recession. In May, Platinum prices shot up as speculators bet that power outages at South African mines and rising demand from automakers and the hydrogen industry will create supply shortages. Rhodium prices fell as car companies seek to minimize their use of this metal on cost grounds. Palladium price fell as the market is hit by platinum-for-palladium substitution in gasoline vehicles and the rapid rise of electric vehicles threatens to hammer demand for the auto catalyst metal

Polymers & Rubber

Low density polyethylene (LDPE)



Source: Crisil

Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
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
Feb-23	859	128095
Mar-23	859	128095
Apr-23		126116
May-23		124084

Monthly Average Prices

Domestic — LDPE (RIL 16MA400 Ex-Mumbai) Rs/tonne	
170,000 -	
160,000	
100,000	
155,000	
150,000	
145,000	
140,000	
135,000	
130,000	l
125,000	
120,000 -	
115,000	4
May-22 Jun-22 Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May	y-23

Source: Reliance Industries Ltd.

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

Outlook

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 postholiday period. In March, prices remained stable. In April, domestic prices fell as the purchase pulse has been continually tepid amid ample product avails. In May, domestic prices fell in tandem with crude oil prices.

Monthly Average Prices

*Dom

(Rs/tonne)

142968

125668

121279

110698

112298

113702

105802

104896

110342

114285

112908

108733

107330

*Int'l

(\$/tonne)

1128

1076

1014

932

942

932

880

890

932

952

942

911

Period

May-22

Jun-22

Jul-22

Aug-22

Sep-22

Oct-22

Nov-22

Dec-22

Jan-23

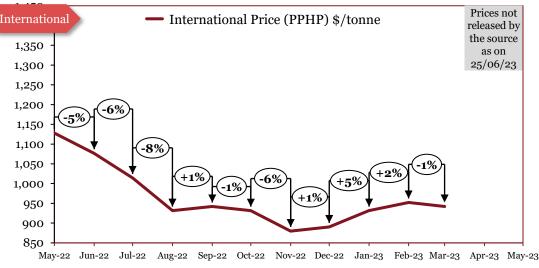
Feb-23

Mar-23

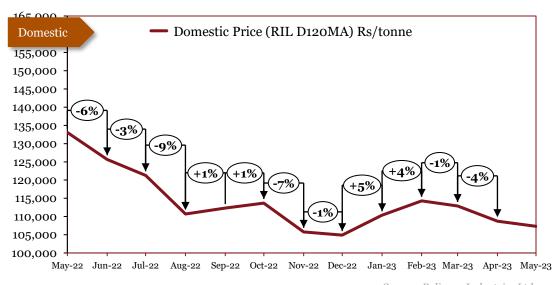
Apr-23

May-23

Polypropylene (PP)







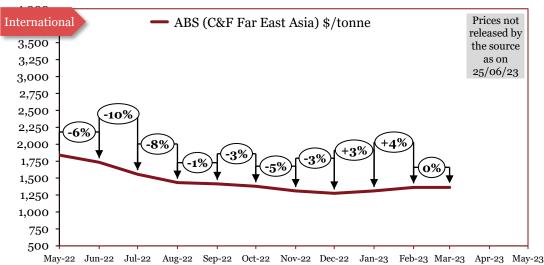
The actual prices may vary depending
on city, player, grade etc.

Source: Reliance Industries Ltd.

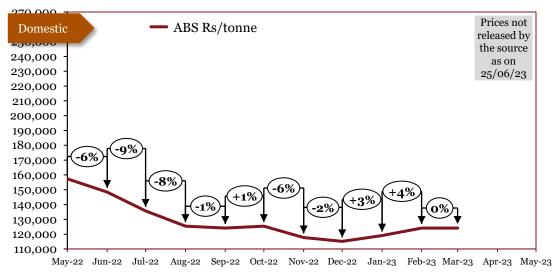
Outlook

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. In April, domestic prices fell amid falling feedstock costs. In May, domestic prices fell in tandem with crude oil prices.

Acrylonitrile Butadiene Styrene (ABS)







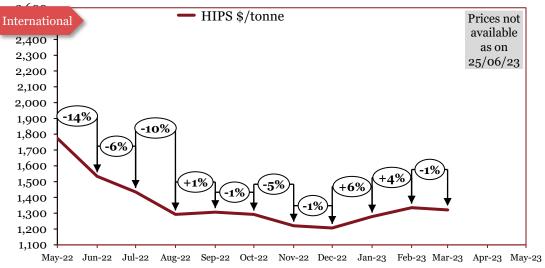
Mon	thly Average	Prices				
	*Int'l	*Dom				
Period	(\$/tonne)	(Rs/tonne)				
May-22	1841	157440				
Jun-22	1735	148480				
Jul-22	1558	135680				
Aug-22	1434	125440				
Sep-22	1416	124160				
Oct-22	1381	125440				
Nov-22	1310	117760				
Dec-22	1274	115200				
Jan-23	1310	119040				
Feb-23	1363	124160				
Mar-23	1363	124160				
Apr-23	1363	122880				
May-23						

Source: Crisil

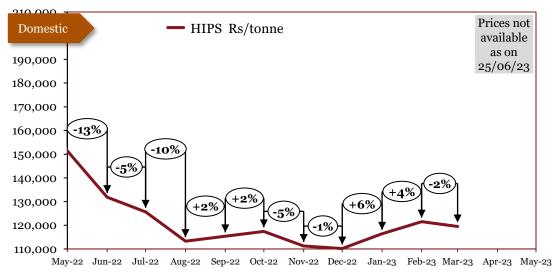
Outlook

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. In March, prices remained stable.

High Impact Polystyrene (HIPS)







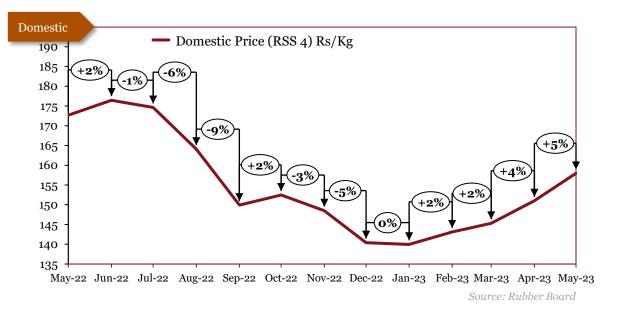
Monthly Average Prices									
	*Int'l	*Dom							
Period	(\$/tonne)	(Rs/tonne)							
May-22	1775	151410							
Jun-22	1534	131840							
Jul-22	1434	125660							
Aug-22	1292	113300							
Sep-22	1306	115360							
Oct-22	1292	117420							
Nov-22	1221	111240							
Dec-22	1207	110210							
Jan-23	1278	116390							
Feb-23	1335	121540							
Mar-23	1321	119480							
Apr-23									
May-23									

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. In March, prices fell in tandem with crude oil prices.

Natural Rubber



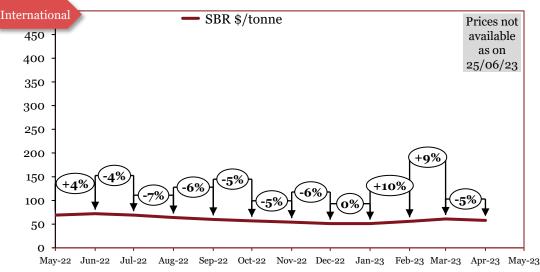
Monthly Average Prices								
Period *Dom								
	(Rs/kg)							
May-22	173							
Jun-22	176							
Jul-22	175 164							
Aug-22								
Sep-22	150							
Oct-22	152							
Nov-22	149							
Dec-22	140							
Jan-23	140							
Feb-23	143							
Mar-23	145							
Apr-23	151							
May-23	158							

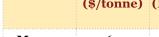
*The actual prices may vary depending on city, player, grade etc.

Outlook

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 and April, prices increased due to reduced production from the other major producers of rubber -Thailand, Malaysia, and Indonesia. In May, prices increased slightly in tandem with demand.

Styrene Butadiene Rubber (SBR)





Period

	(\$/tonne)	(Rs/tonne)
May-22	69	195
Jun-22	72	179
Jul-22	69	174
Aug-22	64	183

Monthly Average Prices

*Int'l

*Dom

176

172

171

169

155

150

162

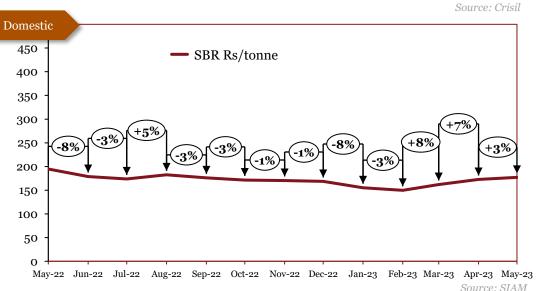
173

177



Apr-23

May-23



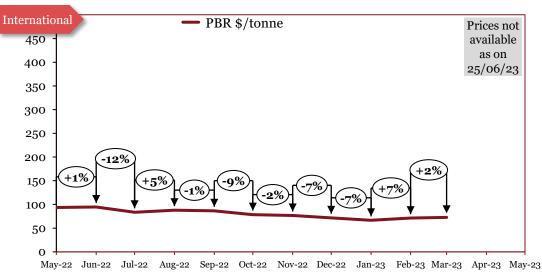
*The actual prices may vary depending on city, player, grade etc.

58

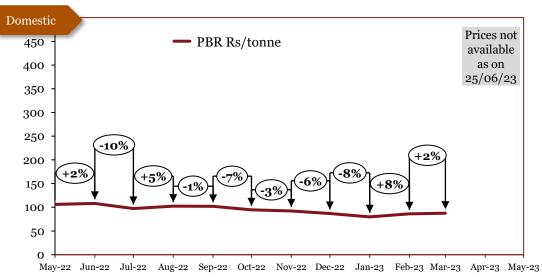
Outlook

Shifting consumer preferences in a projected economic downturn scenario, amendments to industrial policies to align with growing environmental concerns, huge fluctuations in raw material costs triggered by prevailing geo-political tensions, and expected economic turbulences largely impacted Styrene Butadiene Rubber prices. In May, domestic prices increased owing to a rebound in demand fundamentals.

Polybutadiene Rubber (PBR)



Monthly Average Prices								
n • 1	*Int'l	*Dom						
Period	(\$/tonne)	(Rs/tonne)						
May-22	93	106						
Jun-22	95	108						
Jul-22	83	97						
Aug-22	88	102						
Sep-22	87	102						
Oct-22	78	95						
Nov-22	77	92						
Dec-22	72	87						
Jan-23	66	80						
Feb-23	71	86						
Mar-23	73	88						
Apr-23								
May-23								



Source: Crisil

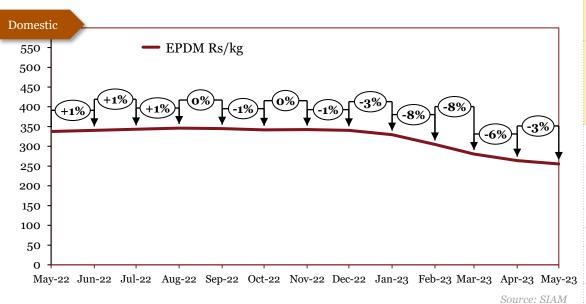
Source: Crisil

Outlook

Domestic prices reached an all-time high during the said period due to the soaring crude oil and gas prices. The petrochemical industry suffered owing to inflated freight charges, low production levels, supply constraints, and depleting inventories, causing the manufacturers to raise their prices.

Faced with the direct consequences of the continuing Russia-Ukraine conflict, a staggering energy crisis unfurled in the European markets. The surging power costs caused the industries to slow or halt production, thereby creating massive shortages in the market. The growing demand amid supply issues, reduced inventories, labor shortages, and poor logistics caused the prices to swell drastically. In March, prices increased as the automotive industry recovered from the semiconductor crisis.

Ethylene Propylene Diene Monomer (EPDM)

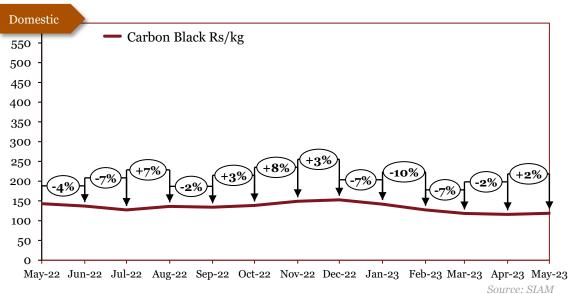


Monthly Av	erage Prices
Period	*Dom (Rs/kg)
May-22	338
Jun-22	340
Jul-22	343
Aug-22	346
Sep-22	345
Oct-22	342
Nov-22	342
Dec-22	340
Jan-23	329
Feb-23	305
Mar-23	281
Apr-23	264
May-23	255

Outlook

Prices have been on a decline after the auto industry was hit first by the semiconductor chip shortage followed by the general economic downturn. The price war initiated by Tesla in China to destock inventories and reduce production also has taken its toll on EPDM consumption. In May, prices decreased in tandem with crude oil prices.

Carbon Black



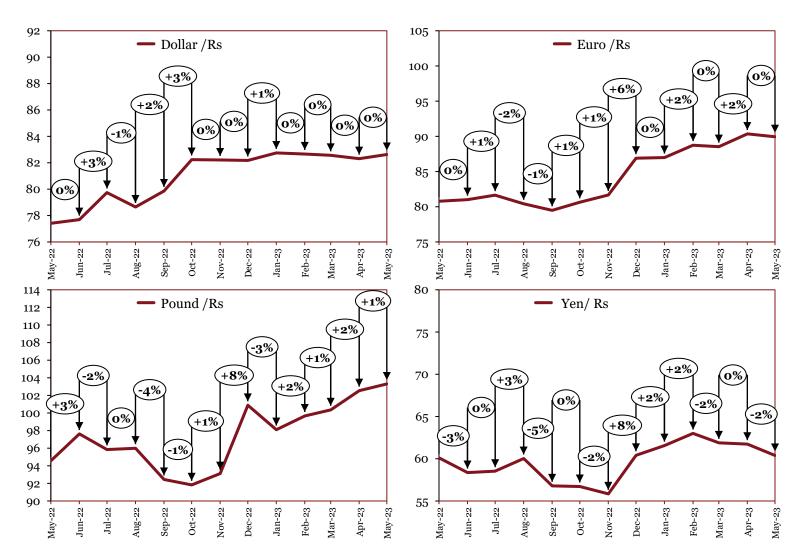
Monthly Av	erage Prices
Period	*Dom (Rs/kg)
May-22	143
Jun-22	137
Jul-22	127
Aug-22	136
Sep-22	134
Oct-22	139
Nov-22	149
Dec-22	153
Jan-23	142
Feb-23	127
Mar-23	118
Apr-23	116
May-23	119

Outlook

Multiple sanctions on Russia, a key carbon black exporter, have added pressure on supplies. Rising wage costs and the government's tab on rising pollution have restrained supply in China as well, further affecting supply. In May, prices remained relatively stable.

Appendices

Forex Movement

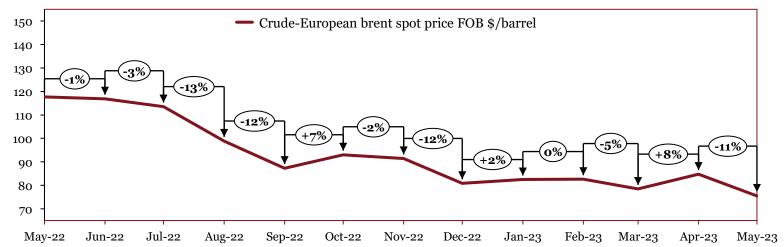


Source: SIAM

	Monthly Average Prices (Rs)												
	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
\$	77	78	80	79	80	82	82	82	83	83	83	82	83
£	95	98	96	96	92	92	93	101	98	100	100	103	103
€	81	81	82	80	80	81	82	87	87	89	89	90	90
¥	60	58	59	60	57	57	56	60	62	63	62	62	60

Crude Oil

Source: SIAM



Monthly Average Prices (\$/barrel)													
	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
	118	117	114	99	87	93	91	81	82	83	78	85	75

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%

Commodity	International	Domestic
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%

Commodity	International	Domestic
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 purities of 99.95% for platinum and palladium, and 99.9% for rhodium	
Palladium		
Rhodium		
Low density polyethylene (LDPE)	International price (C&F FEA) \$/tonne	RIL-16MA400 grade
Polypropylene (PP)	International Price (PPHP) \$/tonne	RIL-D120MA grade
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
Styrene Butadiene Rubber (SBR)	International Price Index (Base Price: \$ 2,825-2,875 per tonne)	Landed Cost Rs/kg
Polybutadiene Rubber (PBR)	International price Index (Base Price: \$ 2,730-2,780 per tonne)	Landed cost Index (Base cost: Rs 207,000 - 211,000 per tonne)

Commodity	International	Domestic
Ethylene Propylene Diene Monomer (EPDM)	NA	Landed Cost Rs/kg
Carbon Black	NA	Landed Cost Rs/kg
Forex Movement	RBI reference rates	
Crude	European Brent spot price FOB \$/barrel – Energy Information Administration (EIA)	



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