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Commodity price monitor July-23

Prepared for ACMA

Strictly private and confidential

July 2023





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Commodity trend dashboard

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

Calendar Year 2023: Q vs. Q update

Commodity	Region	Q-o-Q	Up	Q-o-Q Down
Iron & Steel				
Iron Ore	International			-22.85% 🔻
	Domestic low grade			
	Domestic high grade			
Pig Iron	International			-7.02% 🔻
	Domestic	0.80%		
Stainless steel	Domestic	17.64%		
	Domestic	16.49%		
Wire rod	International	1.17%		
	Domestic			-1.51% 🔻
Steel Billets	International			-1.94% 🔻
	Domestic	4.21%		
Hot-rolled coils	International			-6.90% 🔻
	Domestic	4.02%		
Cold-rolled coils	International			-8.26% 🔻
	Domestic	2.63%		
Steel Scrap	Domestic			-0.21% 🔻
EN8	Domestic			-0.36% 🔻
20MnCr5	Domestic			-0.36% 🔻
Ferro-alloys				
Ferro titanium	International	N/A		
Forme abroad	International	28.47%		
Ferro chrome	Domestic	26.13%		
Ferro molybdenum	International	N/A		
Ferro vanadium	International	N/A		
Forro ciliaon	International	36.93%		
Ferro silicon	Domestic	13.73%		

July 2023

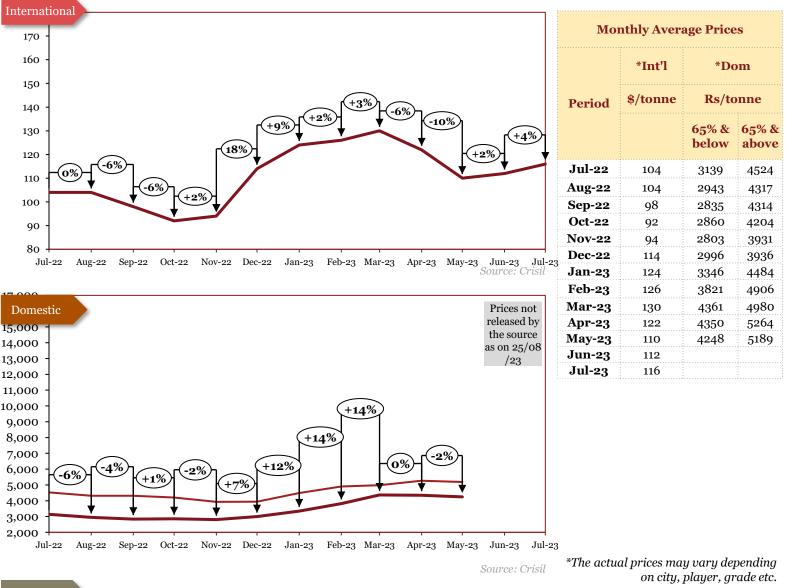
Commodity trend dashboard Quarter-on-Quarter changes (2/2)- Rolling view

Commodity	Region	Q-o-Q Up	Q-o-Q Down
Base Metals			
	International	10.36%	
Aluminum	Domestic	10.07%	
C	International		-3.49%
Copper	Domestic		-2.23%
7:	International		-3.09%
Zinc	Domestic	6.18%	
11	International	10.05%	
Lead	Domestic	5.34%	
	International	10.27%	
Nickel	Domestic	11.80%	
	International	11.48%	
Tin	Domestic	N/A	
Magnesium	International	N/A	
Precious Metals		······	
Platinum	International		-13.35%
Palladium	International		-11.68%
Rhodium	International		-33.32%
Polymers			
	International	0.42%	
Low density polyethylene (LDPE)	Domestic		-3.72%
	International		-5.12%
Polypropylene (PP)	Domestic		-2.80%
	International		-2.13%
Acrylonitrile Butadiene Styrene (ABS)	Domestic		-1.69%
	International		-1.55%
Polystyrene (PS)	Domestic		-1.38%
Rubber	Domestic	2.57%	
Currency Exchange			
Dollar	International	0.35%	
Pound	International		-1.54%
Euro	International		-0.39%
Yen	International		-0.40%

Calendar Year 2023: Q vs. Q update

Iron & Steel

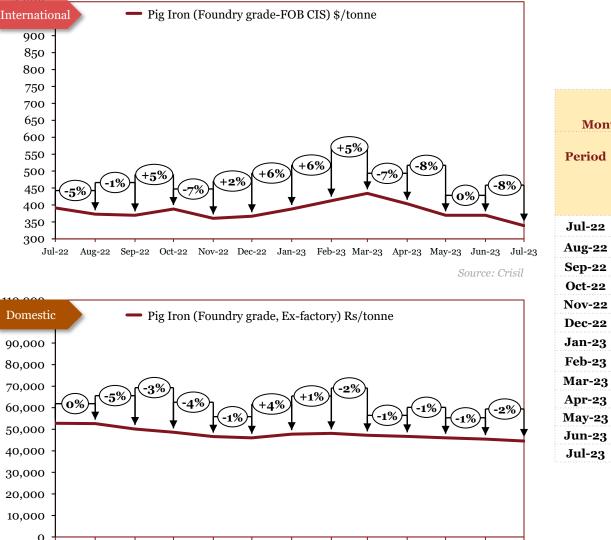
Iron Ore



Outlook

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 and domestic 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. In June, international prices increased as the market remained optimistic about the outlook for demand amid growing signs that the world's top steel producer, China, would introduce more economic stimulus. In July, international prices increased due to the improvement of the credit policy in China and the expectation that Chinese authorities will ease mortgage restrictions to restart the economic recovery.

Pig Iron



Monthly Average Prices			
Period	*Int'l	*Dom	
	\$/tonne	Rs/tonne	
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	
May-23	370	46000	
Jun-23	370	45400	
Jul-23	339	44550	

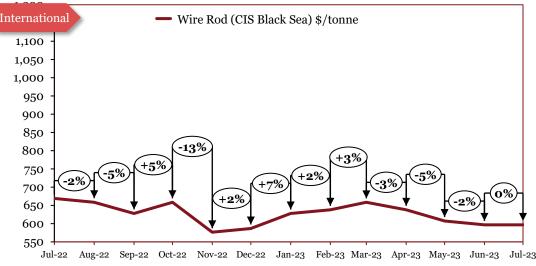
 Aug-22
 Sep-22
 Oct-22
 Nov-22
 Dec-22
 Jan-23
 Feb-23
 Mar-23
 Apr-23
 Jun-23
 Jun-23
 *The actual prices may vary depending on city, player, grade etc.

Outlook

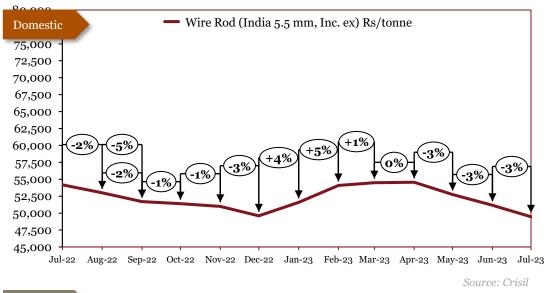
Jul-22

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. In June, prices remained relatively stable. In July, prices fell due to sufficient supply and weak demand coupled with the decline in coke and steel prices.

Wire Rod



Source: Crisil



Monthly Average Prices			
Period	^*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
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	
Apr-23	638	54554	
May-23	607	52754	
Jun-23	597	51154	
Jul-23	597	49454	

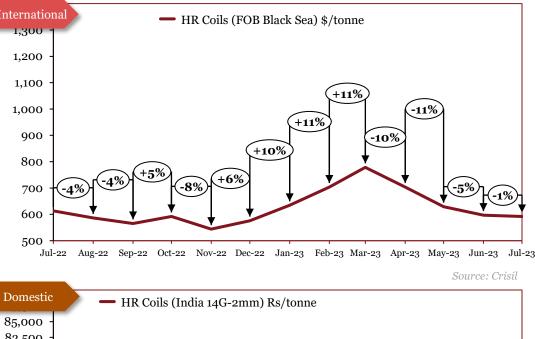
*The actual prices may vary depending

on city, player, grade etc.

Outlook

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 due to limited demand and sluggish global trends. In July, international prices remained stable. Domestic prices continued to fall due to reduced demand, a drop in prices of raw materials, and decreased blast furnace activity.

Hot-Rolled (HR) Coils



82,500 -	-	
80,000 -	-	
77,500 -		
75,000 -		
72,500 -		
70,000 -		
67,500 -		
65,000 -	(+1%) $(+1%)$ $(-3%)$ $(-4%)$ $(-4%)$	
62,500 -	$\left(-2\%\right)$ $\left(-5\%\right)$ $\left(-5\%\right)$	
60,000 -		
57,500 -		
55,000 -		
52,500		
Ju	l-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23 Jul-2	3

Monthly Average Prices			
Period	*Int'l	^*Dom	
	(\$/tonne)	(Rs/tonne)	
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	
Jun-23	597	56950	
Jul-23	592	56750	

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

Outlook

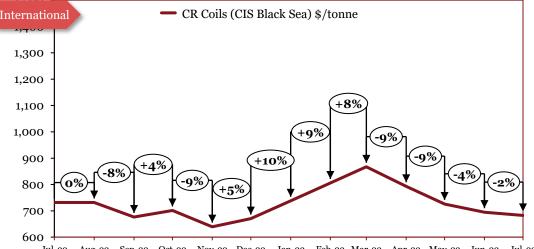
In March, domestic prices increased due to high coking coal prices and stable export prices. International prices increased due to supply chain disruptions in Turkey. In April, domestic prices increased as Indian mills hike prices amid strong exports. International prices fell due to reduced demand caused 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. In June, prices decreased as demand continues to be subdued as customers across sectors resorted to 'wait-and-watch' or 'need-based buying' along with a decrease in coking coal prices. In July, the prices remained relatively stable.

Source: Crisil

Source: Crisil

Source: Crisil

Cold-Rolled (CR) Coils



Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23 Jul-23

Domestic CR Coils (Mum-16G) Rs/tonne 90,000 85,000 80,000 75,000 $+2^{9}$ ·2% **n%** 70,000 2 65,000 60,000 Jul-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23 Aug-22 Jul-23

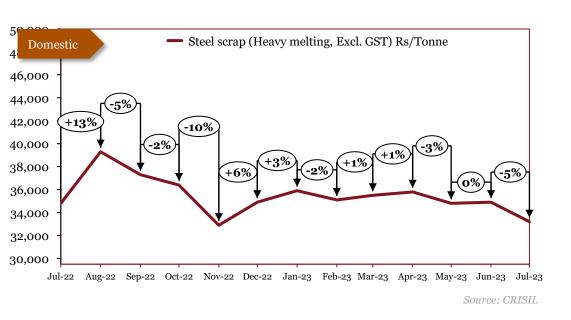
Monthly Average Prices			
Period	*Int'l	^*Dom	
	(\$/tonne)	(Rs/tonne)	
Jul-22	732	67250	
Aug-22	732	66250	
Sep-22	677	66300	
Oct-22	701	66900	
Nov-22	640	65750	
Dec-22	670	64750	
Jan-23	738	65475	
Feb-23	806	66825	
Mar-23	867	67750	
Apr-23	793	67750	
May-23	726	65950	
Jun-23	695	63425	
Jul-23	683	62825	

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

Outlook

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 amid uncertainty and market concerns about the macroeconomic prospects. In June, domestic prices fell on account of the monsoon which weakened construction activities, Indian steel mills witnessed a demand slowdown and a fall in coking coal prices. International prices decreased due to a lack of demand, negative market sentiment influenced by the uncertainty of the Chinese market, and negative macroeconomic factors. In July, the prices continued to drop carrying the momentum from previous months due to slowing global demand. Domestic prices dropped due to cheap imports and softer input costs.

Steel Scrap (Heavy Melting)



Monthly Average Prices			
Period *Dom			
	(Rs/Tonne)		
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		
Jun-23	34900		
Jul-23	33200		

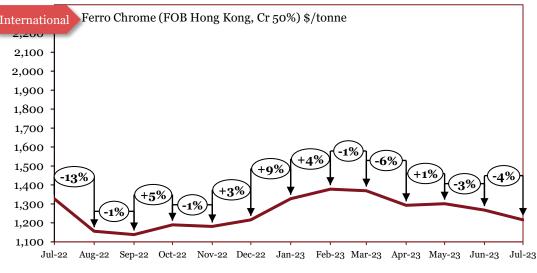
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Outlook

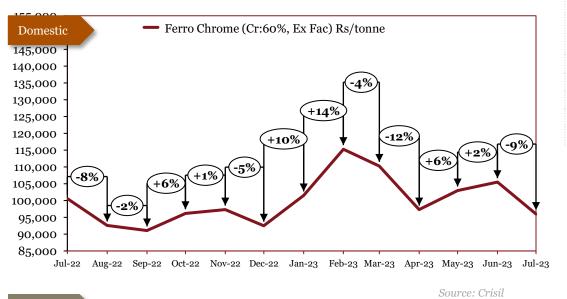
In August, prices increased on the back of a rise in demand from the automotive industry, owing to the onset of the festive season. In September, prices saw a downward trend due to considerable imports of cheaper bulk scrap from the US. In October, prices declined slightly due to reduced buying at steel 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. In June, prices remained relatively stable. In July, prices fell due to higher VAT and excise duty on fuel in Turkey coupled with reduced demand due to the global economic slowdown.

Ferro-alloys

Ferro chrome



Source: Crisil



Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
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
Jun-23	1267	105500
Jul-23	1216	96000

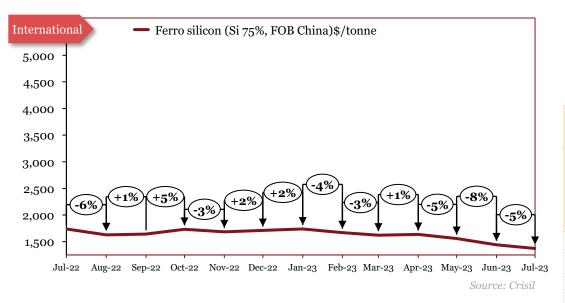
Monthly Average Prices

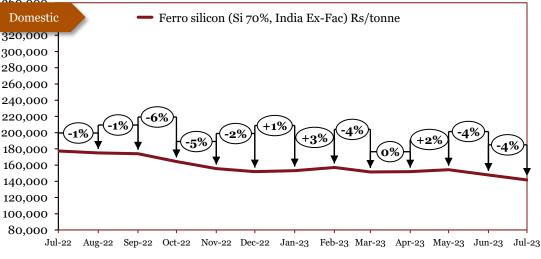
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In June, international prices decreased in tandem with coking coal prices. Domestic prices increased due to high electricity costs. In July, prices dropped due to uncertainty over steel production in China, a drop in prices of raw materials, and sluggish demands from the end consumer.

Ferro silicon





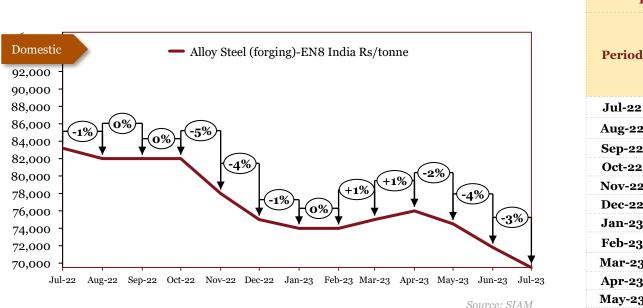
Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
Jul-22	1739	177450	
Aug-22	1628	174950	
Sep-22	1642	173950	
Oct-22	1732	164350	
Nov-22	1684	155650	
Dec-22	1711	151850	
Jan-23	1739	153050	
Feb-23	1670	157050	
Mar-23	1622	151550	
Apr-23	1635	151850	
May-23	1559	154350	
Jun-23	1442	147850	
Jul-23	1373	141650	

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

Outlook

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 northeast India, a major production center. In June, prices dropped on account of higher supplies, and sluggish steel demand amid intense bargaining in the market and low coking coal prices. In July, prices dropped due to uncertainty over steel production in China, reduced prices of raw materials, and sluggish demands from the end consumers.

EN8 Alloy Steel (Forging)



Aug-22 82000 Sep-22 82000 Oct-22 82000 Nov-22 78000 Dec-22 75000 Jan-23 74000 Feb-23 74000 Mar-23 75000 Apr-23 76000 May-23 74500 Jun-23 71800 Jul-23 69500

Monthly Average Prices

*Dom

(Rs/tonne)

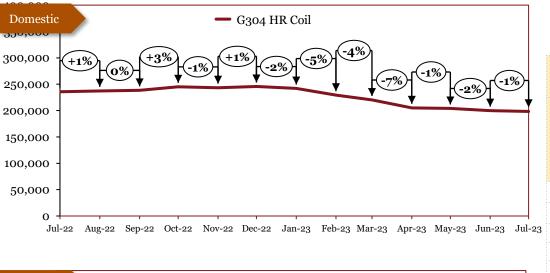
83200

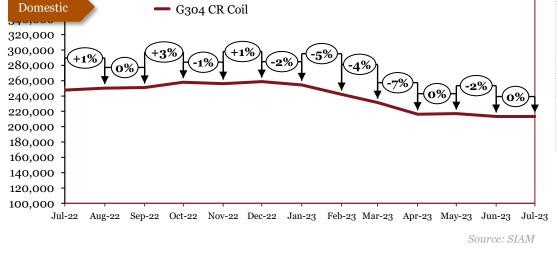
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In June and July, prices decreased as Chinese steel mills continued dumping alloy steel into Indian markets due to a shortage of customers in China leading to oversupply.

Stainless Steel





Monthly Domestic Average Prices		
	*G304 HR	*G304 CR
Period	(Rs/tonne)	(Rs/tonne)
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
Jun-23	200000	213250
Jul-23	198500	213250

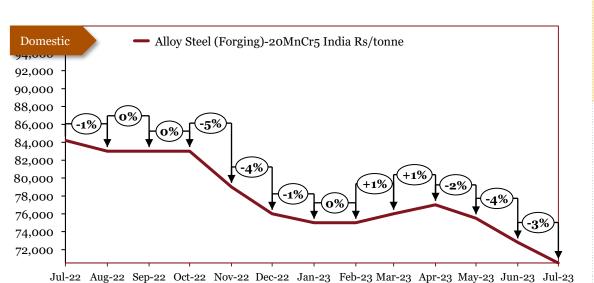
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In June, prices fell due to sluggish demand in the traders' market amid need-based procurement, low demand from end consumers due to inflation, and high energy prices. In July, prices remained relatively stable.

Source: SIAM

20MnCr5 Alloy Steel (Forging)



Monthly Average Prices		
	*Dom	
Period	(Rs/tonne)	
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	77000	
May-23	75500	
Jun-23	72800	
Jul-23	70500	

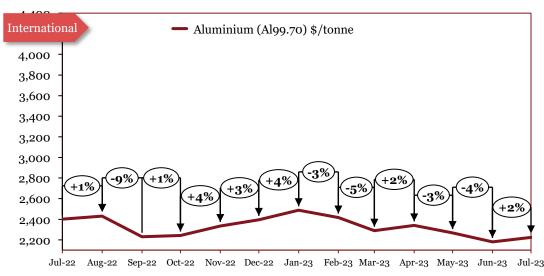
*The actual prices may vary depending on city, player, grade etc.

Outlook

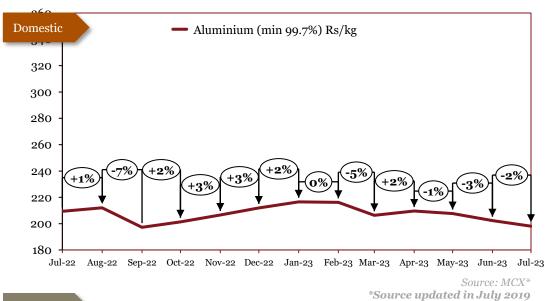
In May, prices remained stable. In June, prices fell in tandem with other steel alloys. In July, prices fell on account of a lack of buying inquiries from buyers and a decrease in exports. In August, prices fell owing slightly to a sustained fall in demand from the automotive industry. In September, 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. In June, prices continue to spiral down, primarily driven by the demand weakness in China and falling coking coal prices. In July, prices fell due to consecutive downward corrections driven by high input costs, particularly expensive coal, and iron ore supplied by Odisha Mineral Corporation.

Base Metals

Aluminium



Source: LME



 Jul-22
 2401
 209

 Aug-22
 2421
 212

Monthly Average Prices

*Int'l

(\$/tonne)

Period

*Dom

(Rs/kg)

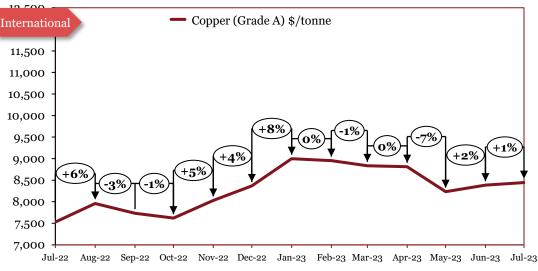
Aug-22	2431	212
Sep-22	2230	197
Oct-22	2243	201
Nov-22	2335	207
Dec-22	<u>2</u> 394	212
Jan-23	2489	217
Feb-23	2417	216
Mar-23	2290	206
Apr-23	2341	210
May-23	2267	208
Jun-23	2181	202
Jul-23	2224	198

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

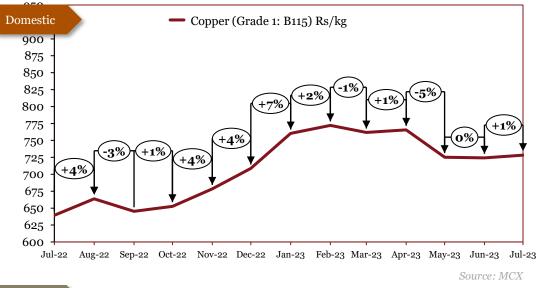
Outlook

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. In June, prices decreased as demand from some end-user sectors like construction remained tepid amid the ongoing high-inflation environment and poor economic conditions in Europe and Germany entering into a recession. In July, international prices increased due to high demand caused by the stimulus pay in China. Domestic prices continued the downward trend due to reduced demand in the local markets.

Copper



Source: LME



Month	ly Averag	ge Prices

· · ·		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
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
Jun-23	8386	724
Jul-23	8445	728

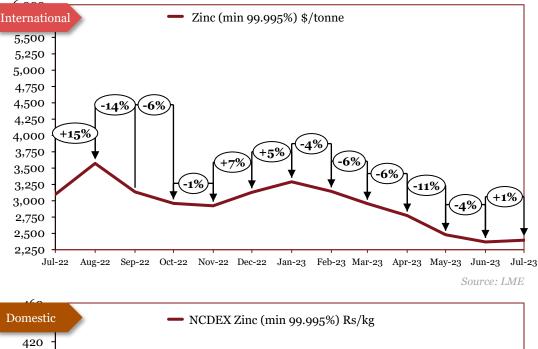
*The actual prices may vary depending

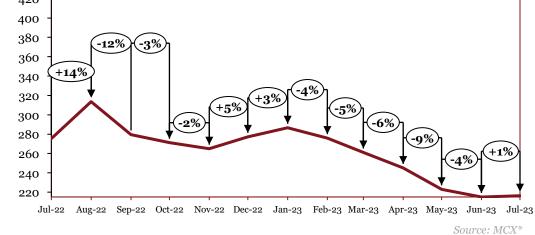
on city, player, grade etc.

Outlook

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. In June, international prices rose supported by a vote of approval from the U.S. House of Representatives to suspend the debt ceiling and improvement in the fundamentals of copper as an EV & green energy metal. Domestic prices remained stable. In July, the prices gained upward momentum due to increased demand among Chinese consumers.

Zinc





Monthl	y Average	Prices
THU HU	Jineiuge	1 11000

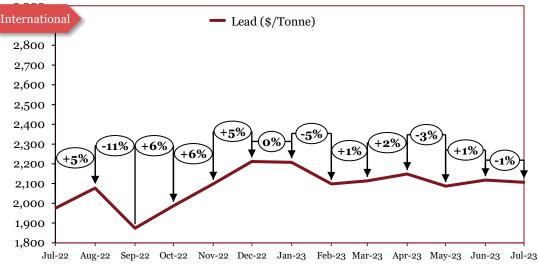
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
Jul-22	3097	275
Aug-22	3572	314
Sep-22	3136	280
Oct-22	2959	271
Nov-22	2923	265
Dec-22	3128	277
Jan-23	3289	287
Feb-23	3143	276
Mar-23	2956	261
Apr-23	2772	245
May-23	2477	223
Jun-23	2368	215
Jul-23	2396	216

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

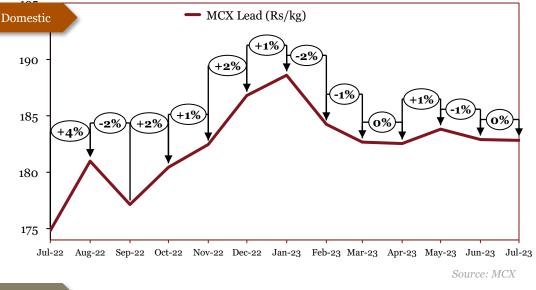
Outlook

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 a weaker-than-expected economic recovery in China -- biggest consumer of zinc. In June, prices declined due to weak demand, coupled with an increase in smelter and sluggishness in the steel sector, which impacted the demand for galvanizing. In July, prices remained relatively stable.

Lead







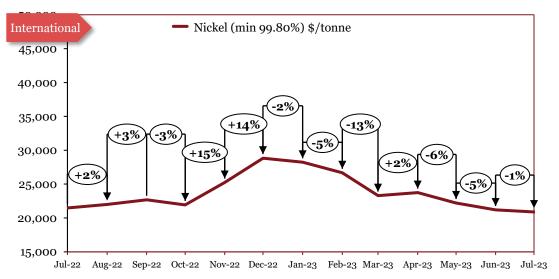
Monthly Average Prices		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
Jul-22	1976	175
Aug-22	2077	181
Sep-22	1874	177
Oct-22	1987	180
Nov-22	2099	182
Dec-22	2212	187
Jan-23	2208	189
Feb-23	2098	184
Mar-23	2114	183
Apr-23	2148	183
May-23	2087	184
Jun-23	2118	183
Jul-23	2106	183

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

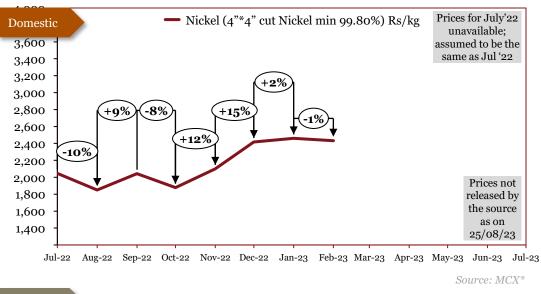
Outlook

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. In June, international prices increased as the peak lead acid car battery replacement season of summer commenced coupled with high demand from the EV industry. Domestic prices remained relatively stable. In July, prices remained relatively stable.

Nickel



Source: LME



Monthly Average Prices

	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
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	
Apr-23	23749	
May-23	22215	
Jun-23	21184	
Jul-23	20890	

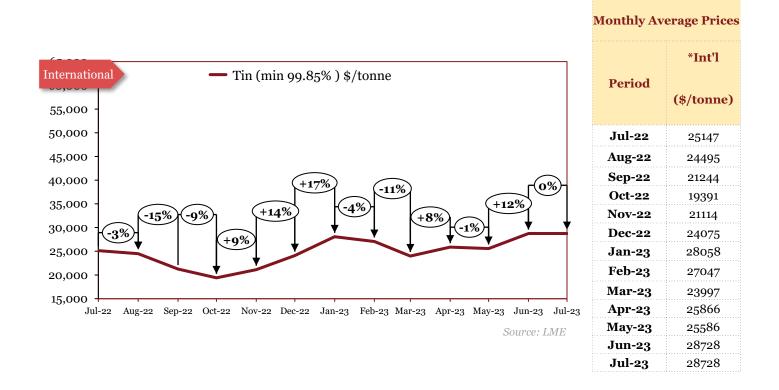
*The actual prices may vary depending

on city, player, grade etc.

Outlook

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, 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. In May, International prices decreased after the release of disappointing trade data from top industrial metals consumer China. In June, international prices continued a downward trend as global production volumes rose while the market remained in surplus. In July, international domestic prices continued a downward trend due to subdued demand in major economies and increased Indonesian supply.

Tin



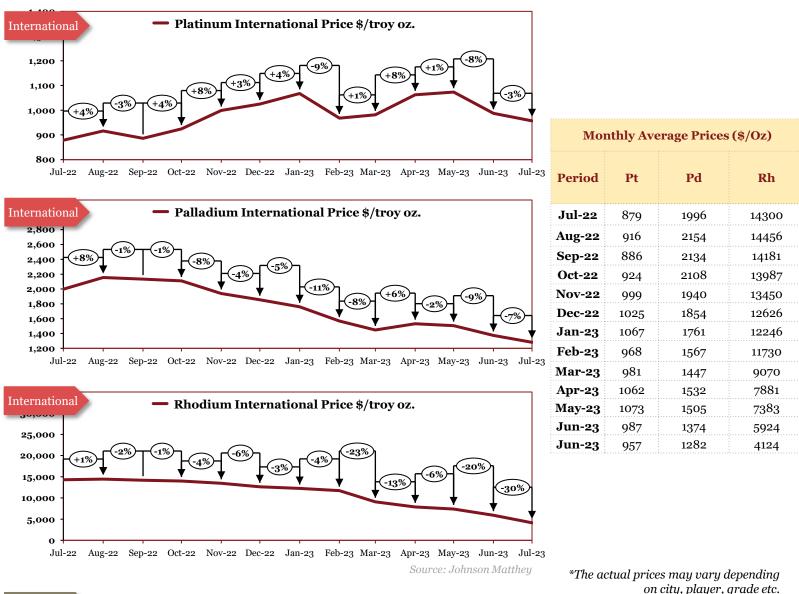
*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In June, prices increased because of a looming supply crunch in the global tin market as Myanmar, the world's third-largest tin producer announced a suspension of tin mining activities, and Indonesia, the world's largest exporter of tin, announced a proposed ban on the exports of tin ingots. In July, the prices remained stable.

Precious Metals

Precious Metals

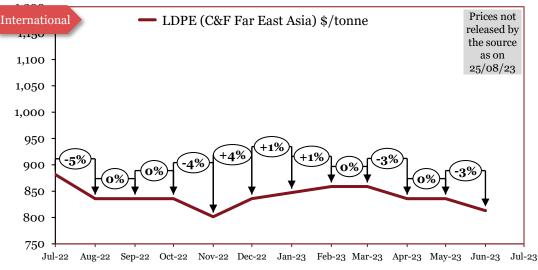


Outlook

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. In June, Platinum prices decreased as the diesel vehicle market, a major platinum consumer, is shrinking in Europe. Palladium and Rhodium prices fell on account of weak demand amidst negative macroeconomic factors. In July, Platinum prices dropped due to reduced demand as automakers are producing fewer catalytic converters. Palladium continued to drop with momentum caused by negative macroeconomic factors. Rhodium plummeted due to a build-up of unsold China 6A emissions-compliant car stocks which are being sold before 6B-compliant cars (auto catalysts made from Rhodium) in China leading to some de-stocking from OEMs and low demand due to fears of global recession.

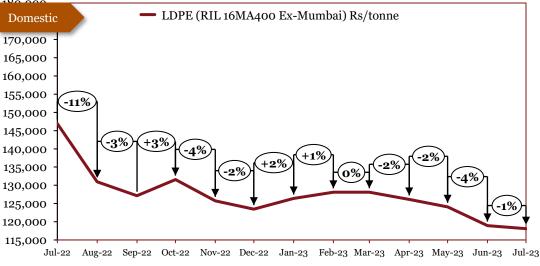
Polymers & Rubber

Low density polyethylene (LDPE)



Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
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	836	126116
May-23	836	124084
Jun-23	813	118956
Jul-23		118117

Source: Crisil



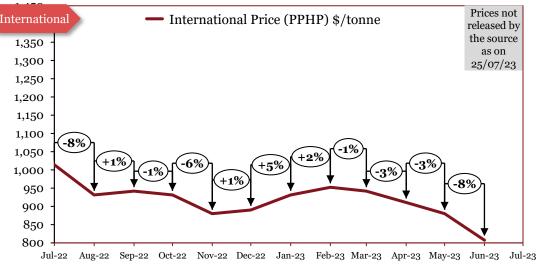
Source: Reliance Industries Ltd.

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

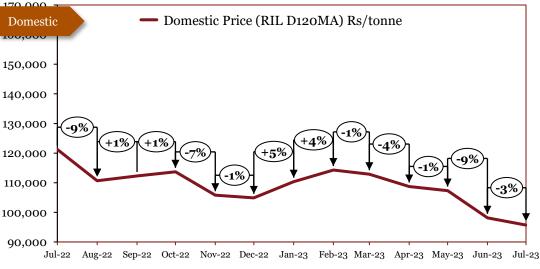
Outlook

In December, domestic prices fell in tandem with crude oil prices. International prices increased due to stronger demand from China after the 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, prices remained stable. In April, prices fell as the purchase pulse has been continually tepid amid ample product avails. In May, international, prices remained stable. Domestic prices fell in tandem with crude oil prices. In June, international prices continued to drop with momentum of sluggish market demands of previous weeks which was aggravated by the European fuel crisis. Domestic prices continued to fall on the back of sluggish market sentiment and surplus product avails in the region, and lower import offers from overseas suppliers. In July, domestic prices remained relatively stable.

Polypropylene (PP)



Source: Crisil



Source:	Reliance	Industri	es Ltd

Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
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	942	112908
Apr-23	911	108733
May-23	880	107330
Jun-23	807	98166
Jul-23		95706

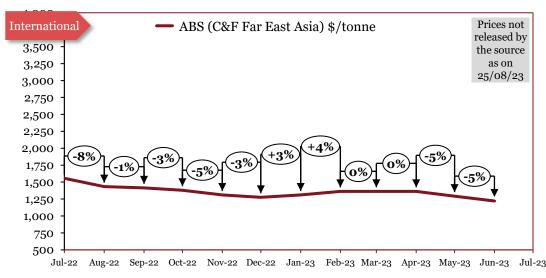
Monthly Average Prices

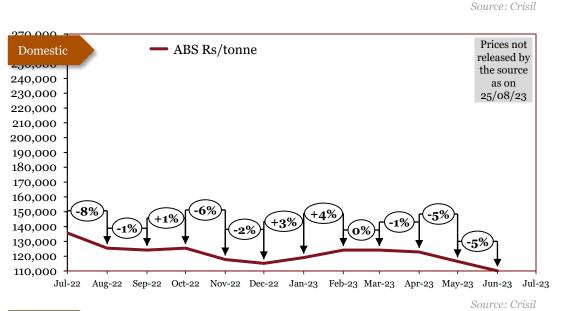
*The actual prices may vary depending on city, player, grade etc.

Outlook

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, prices fell amid falling feedstock costs. In May, prices fell in tandem with crude oil prices. In June, prices declined due to persistently subdued demand sentiment coupled with surplus product avails in the region and a weak macroeconomic environment. In July, prices continued to drop as the market failed to generate demand for the surplus supply condition and a drop in feedstock prices.

Acrylonitrile Butadiene Styrene (ABS)



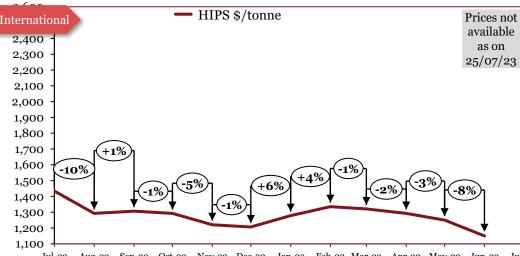


Monthly Average Prices					
	*Int'l	*Dom			
Period	(\$/tonne)	(Rs/tonne)			
Jul-22	1558	135680			
Aug-22	1434	125440			
Sep-22	1416	124160			
Oct-22	1381	125440			
Nov-22	1310	117760			
Dec-22	1274	115200			
Jan-23	1310	119040			
Feb-23	1363	124160			
Mar-23	1363	124160			
Apr-23	1363	122880			
May-23	1292	116480			
Jun-23	1221	110080			
Jul-23					

Outlook

In July, prices fell due to the reduction in crude oil prices, as a result of geopolitical 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 and April, prices remained relatively stable. In June, prices declined due to subdued demand, ample supply, and heavily hit consumption as Europe remains hawkish with rate hikes.

High Impact Polystyrene (HIPS)

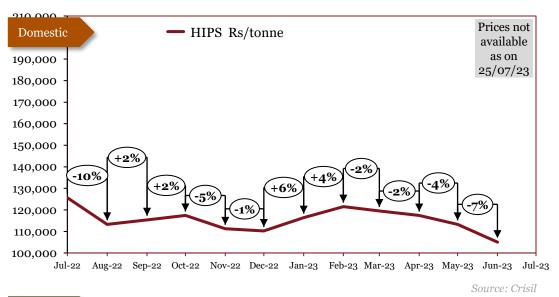


available 25/07/23

	*Int'l	*Dom
Period	(\$/tonne)	(Rs/tonne
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	1292	117420
May-23	1250	113300
Jun-23	1150	105060
Jul-23		

Monthly Ayongo Dri

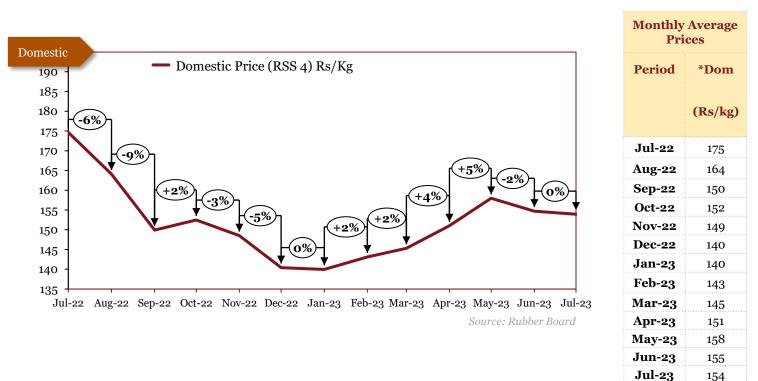
Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23 Jul-23 Jul-22 Source: Crisil



Outlook

In August, domestic prices fell because of a decline in the demand for 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. In April prices surged in tandem with crude oil prices. In May, prices slumped in tandem with crude oil prices. In June, weak demand led to a surplus supply situation causing a significant price drop.

Natural Rubber

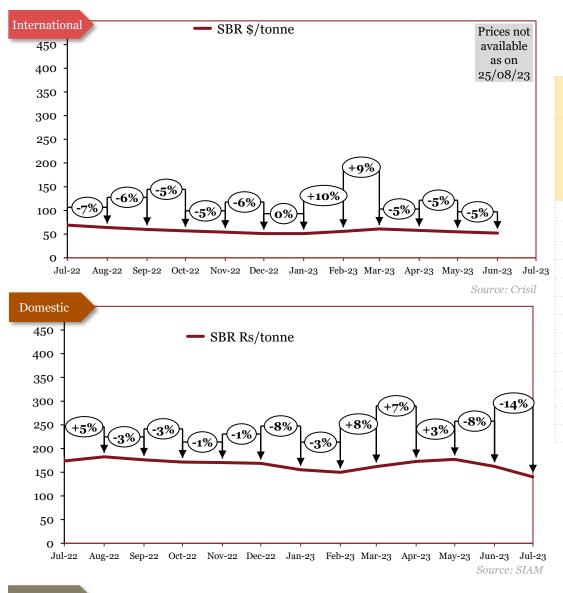


*The actual prices may vary depending on city, player, grade etc.

Outlook

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. In June, prices fell amid lingering concerns about faltering demand from top consumer China. In July, prices remained stable.

Styrene Butadiene Rubber (SBR)



Monthly Average Prices						
	*Int'l	*Dom				
Period	(\$/tonne)	(Rs/tonne)				
Jul-22	69	174				
Aug-22	64	183				
Sep-22	60	176				
Oct-22	57	172				
Nov-22	54	171				
Dec-22	51	169				
Jan-23	51	155				
Feb-23	56	150				
Mar-23	61	162				
Apr-23	58	173				
May-23	55	177				
Jun-23	52	162				
Jul-23		140				

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

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, prices increased owing to a rebound in demand fundamentals. In June, domestic prices decreased as market growth remained sluggish because of feeble demands from downstream automotive and rubber industries combined with low coking coal prices. In July, prices declined due to decreased prices of its major feedstock (butadiene).

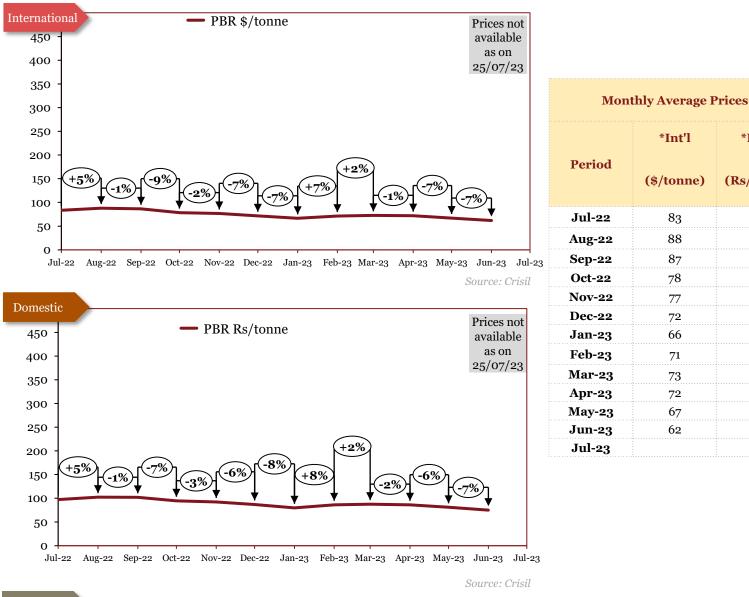
*Int'l

(\$/tonne)

*Dom

(Rs/tonne)

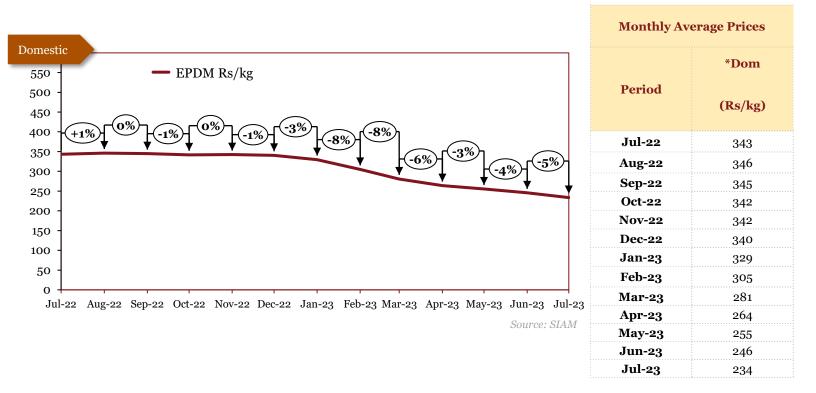
Polybutadiene Rubber (PBR)



Out	look
Out	IOOK

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. In April prices remained relatively stable. In May, prices plummeted in tandem with crude oil prices. In June, the prices dropped due to the underperformance of the tire industry, the stable manufacturing sector, reduced feedstock costs, and surplus inventories.

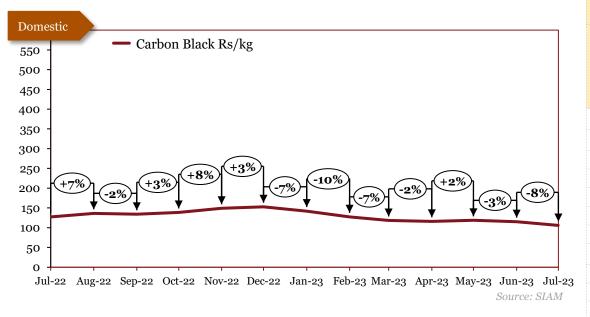
Ethylene Propylene Diene Monomer (EPDM)



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. In June, prices continued to fall despite easing supply chain constraints, lower shipping container costs, and fewer berth delays. In July, the price drop was attributed to a consistent fall in the prices of feedstock ethylene and propylene for several weeks, as a result, the manufacturing cost of EPDM rubber was substantially reduced, leading to lower market prices.

Carbon Black

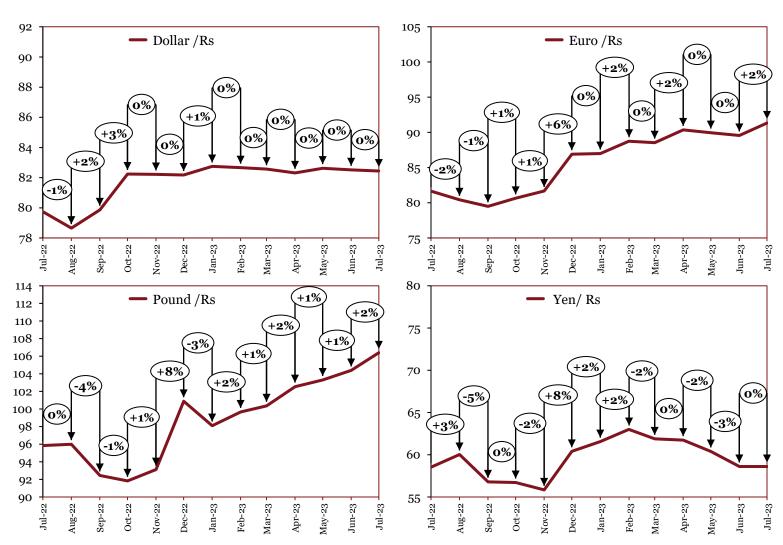


Monthly Average Prices					
	*Dom				
Period	(Rs/kg)				
Jul-22	127				
Aug-22	136				
Sep-22	134				
Oct-22	139				
Nov-22	149				
Dec-22	153				
Jan-23	142				
Feb-23	127				
Mar-23	118				
Apr-23	116				
May-23	119				
Jun-23	115				
Jul-23	106				

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. In June, prices decreased on account of low demand from the end-consumer. In July, the prices continued to plummet with greater momentum as demand from end-consumer remained constant, increased cost of production, surplus inventories and economic slowdown in China.

Appendices

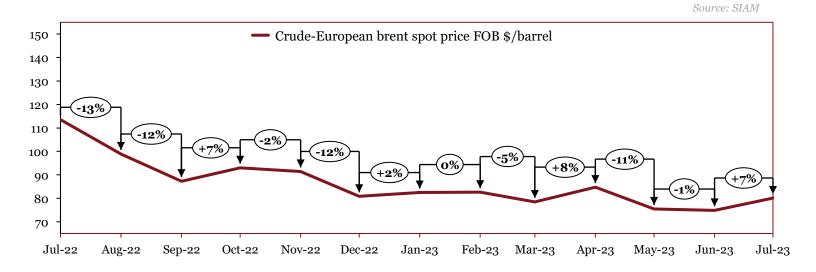


Forex Movement

Source: SIAM

	Monthly Average Prices (Rs)												
	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23
\$	80	79	80	82	82	82	83	83	83	82	83	83	82
£	96	96	92	92	93	101	98	100	100	103	103	104	106
€	82	80	80	81	82	87	87	89	89	90	90	90	91
¥	59	60	57	57	56	60	62	63	62	62	60	59	59

Crude Oil



Monthly Average Prices (\$/barrel)												
Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23
114	99	87	93	91	81	82	83	78	85	75	75	80

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	1 0 1	ourities of 99.95% for platinum and palladium,
Palladium	and 99.9% for rhodium	
Rhodium		
Low density polyethylene (LDPE)	International price (C&F FEA) \$/tonne	RIL-16MA400 grade
Polypropylene (PP)	International Price (PPHP) \$/tonne	RIL-D120MA grade
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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