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Commodity price monitor *August-21*

Prepared for ACMA

Strictly private and confidential

August 2021





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Commodity trend dashboard

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

Calendar Year 2021: Qvs. Qupdate

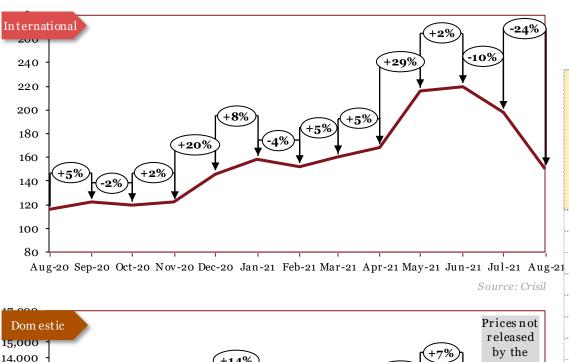
Commodity	Region Q-o-Q		Q-o-Q Down	
Iron & Steel				
Iron Ore	International		-13.58% 🔻	
	Domestic low grade			
	Domestic high grade			
PigIron	International		-2.37% 🔻	
	Domestic	0.60%		
Stainless steel	Domestic	13.62%		
	Domestic	12.73%		
Wirerod	International	0.20%		
	Domestic		-1.51% 🔻	
Steel Billets	International	0.75%		
	Domestic	4.31%		
Hot-rolled coils	International		-0.37% 🔻	
	Domestic	4.76%		
Cold-rolled coils	International		-5.10% 🔻	
	Domestic	4.06%		
Steel Scrap	Domestic		-0.74% 🔻	
EN8	Domestic		-0.04% 🔻	
20MnCr5	Domestic		-0.04% 🔻	
Ferro-alloys				
	International	25.65%		
Ferro chrome	Domestic	29.99% 🔺		
	International	15.15%		
Ferro silicon	Domestic	9.93%		

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

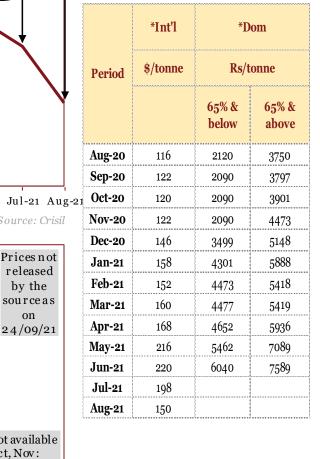
Commodity	Region	Q-o-Q Up	Q-o-Q Down	
Base Metals				
Aluminum	International	6.35%		
Arummum	Domestic	6.00%		
Connor	International		-3.25% 🔻	
Copper	Domestic		-1.69% 🔻	
Zinc	International		-6.51% 🔻	
ZINC	Domestic	4.84%		
land	International	12.02%		
Lead	Domestic	4.17%		
Nislas	International	9.49% 🔺		
Nickel	Domestic	11.01%		
T .	International	11.14%		
Tin	Domestic	N/A		
Precious Metals				
Platinum	International		-11.31%	
Palladium	International		-5.62%	
Rhodium	International		-28.29% 🔻	
Polymers				
Low density polyethylene	International		-2.09% 🔻	
(LDPE)	Domestic		-5.28% 🔻	
	International		-6.02% 🔻	
Polypropylene (PP)	Domestic		-3.77% 🔻	
Acryl onitrile Butadiene	International		-5.45% 🔻	
Styrene (ABS)	Domestic		-4.23%	
	International		-0.26%	
Polystyrene (PS)	Domestic	1.15%		
Rubber	Domestic	2.32%		
Currency Exchange		,		
Dollar	International	0.74%		
Pound	International	······································	-1.11%	
Euro	International		-0.45% 🔻	
Yen	International	0.09%		

Calendar Year 2021: Qvs. Qupdate

Iron & Steel



Iron Ore



15% 24/09/21 8% +17% +67% +4% +10% +11% +15% 0% +23% +3% 4% +1% 0% 0% -1% Prices not available for Oct, Nov: a ssum ed constant Mar-21 Jul-21 Sep-20 Nov -20 Jan-21 May -21 Source: Crisil

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

Outlook

13,000

12,000

11.000

10,000

9,000

8,000

7,000

6,000

5,000

4,000

3,000

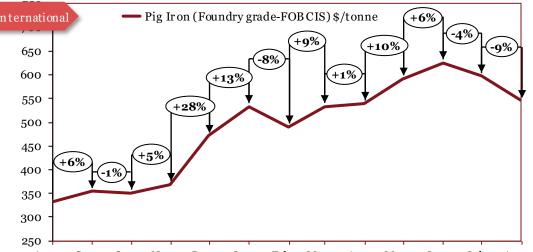
2,000

In August, international prices rose as Chinese infrastructure spending was aided by a government stimulus, along with supply concerns from Brazil. In September, international prices continued their upturn on account of high demand from China. In October, international prices declined due to lower Chinese imports, along with greater supply from Brazil and South Africa. In November, international prices rose on account of a shortage of available supply in the market. In December, prices rose aggressively on the backs of trade disputes between China and Australia. In January, domestic prices continued to rise due to disruptions in supply. In February, international prices saw a dip due to reduced buying from China as part of low-carbon initiatives to reduce crude steel output. In March, international iron ore prices rose on the back of high demand from China fuelled by strong steel margins and high output. In April, international prices rose on demand amidst increased in frastructure projects post Covid-19 recovery. In May, international prices surged in line with flat steel prices and strong demand. In June, iron ore prices rose marginally on the back of global supply constraints. In August, higher Brazilian shipments along with a decline in Chinese steel indicators drove international prices further down.

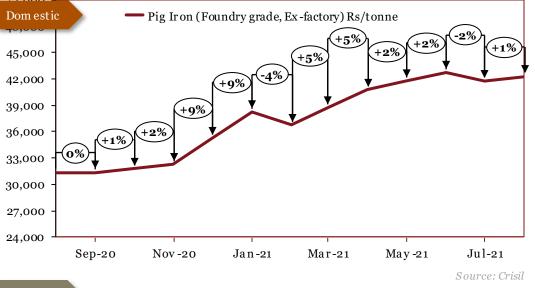
+19%

on

Pig Iron



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Crisil



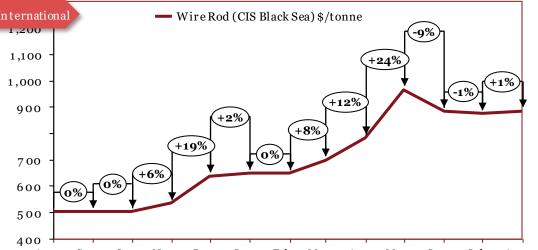
Monthly Average Prices			
Period	*Int'l	*Dom	
	\$/tonne	Rs/tonne	
Aug-20	333	31350	
Sep-20	354	31350	
Oct-20	351	31750	
Nov-20	370	32250	
Dec-20	471	35250	
Jan-21	533	38250	
Feb-21	490	36750	
Mar-21	533	38750	
Apr-21	539	40750	
May-21	591	41750	
Jun-21	625	42750	
Jul-21	598	41750	
Aug-21	545	42250	

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

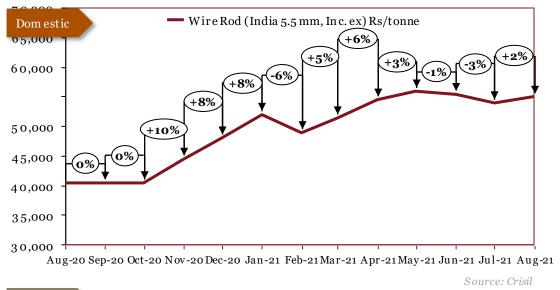
Outlook

In January, international prices rose due high Chinese consumption which led to shortage of imports, while domestic prices rose due to infrastructure projects gaining momentum post lockdown. In February international prices fell along with Iron Ore prices, while domestic prices slum ped on lower demand. In March, international prices surged on increased buying from Brazil and good demand. Domestic prices rose due to healthy demand coupled with strong flat steel prices. In April, international rose in conjunction with steel prices. Domestic prices rose on demand from both castings and steel segment coupled with strong flat steel prices. In May. International prices rose on surged on strong demand and limited supply from China. Domestic prices rose in line with flat steel prices, even as demand remains weak owing to the second wave of Covid-19. In June, international and domestic prices rose in line with flat steel prices despite weaken ed demand in India due to the second wave of the pandemic. In August, international prices fell in tandem with iron ore prices. Domestic prices remained comparatively stable.

Wire Rod



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Crisil



Period	^*Int'l	*Dom
(\$/tonne)	(Rs/tonne)
Aug-20	504	40494
Sep-20	504	40494
Oct-20	504	40494
Nov-20	535	44494
Dec-20	638	47994
Jan-21	648	51994
Feb-21	648	48994
Mar-21	700	51494
Apr-21	782	54494
May-21	967	55994
Jun-21	885	55494
Jul-21	875	53994
Aug-21	885	54994

*The actual prices may vary depending

on city, player, grade etc.

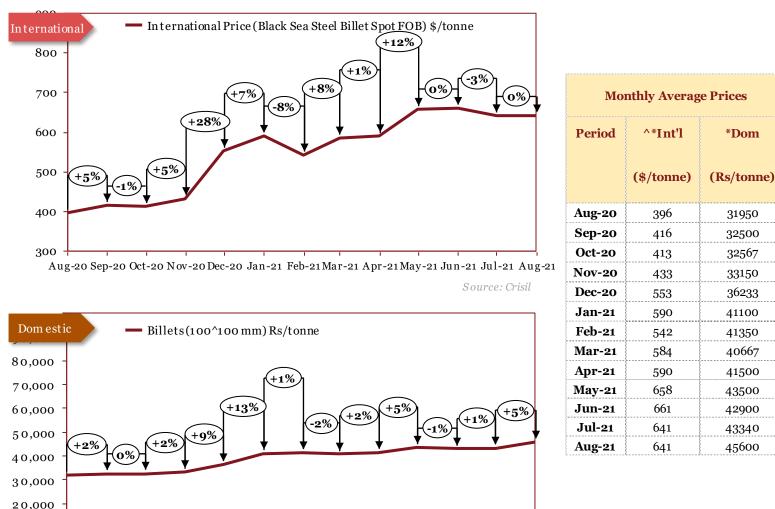
Monthly Average Prices

Outlook

In August, international as well as domestic prices rose on the backs of growing demand, shortage of inventory. In September, international and domestic prices remained stable. In October, international and domestic prices remained stable. In November, international as well as domestic prices rose due to the higher cost of iron ore. In December, a boom in Chinese construction drow e higher international and domestic prices. In January, international prices rose on tight supply and price rise for scrap. Domestically, prices rose reflecting soaring steelmaking cost. In February, international prices remained stable on good demand, while domestic prices slumped with reduced steel prices. In March, international and domestic prices rose in conjunction with steel prices. In April, international as well as domestic prices rose on the back of increased demand from China. In May, global prices surged on short supply in Europe and Asia. Dom estic prices followed suit. In June, international price fell on the back of decreased demand from China and Southern Europe. Dom estic prices remained stable. In August, a mid-month increase in transaction prices from various steelmakers drove prices slightly upwards.

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

Steel Billets



0 0 Hondree Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 **The actual prices may vary depending on* Source: Crisil

city, player, grade etc.

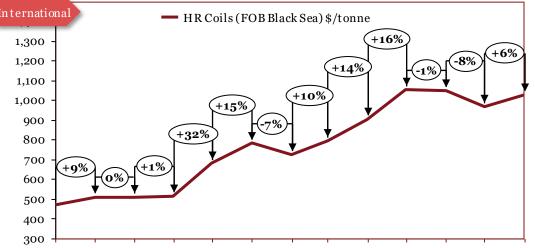
Outlook

10,000

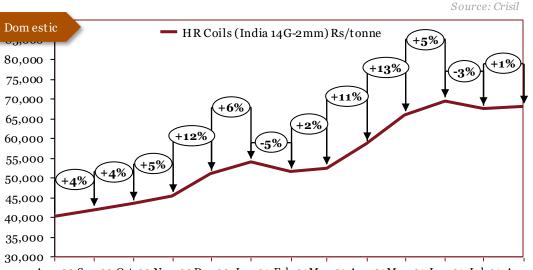
In October, international prices declined while domestic prices remained stable. In November, international prices rose on higher ore prices, as well as reduced supply. Domestic prices followed suit. In December, international as well as domestic prices rose due to the higher price of scrap. In January, international prices along with domestic prices rose due to increased demand of steel in China and an upward trend in prices of steel products. In February, international prices saw a dip due to lack of trade and falling steel prices, while domestic prices remained stable. In March, international prices surged on the back of high Chinese buying. Domestic prices dipped on account of weaker demand for finished products. In April, international as well as domestic prices rose in conjunction with scrap prices. In May, international and domestic prices increased due to reduced availability. In June, international and domestic prices remained fairly steady. In July, international prices decreased due to an increase in supply. Domestic prices remained relatively constant. In August, international prices remained unaffected, whereas domestic prices rose on account of a surge in raw material costs.

^International prices changed due to change in the grade

Hot-Rolled (HR) Coils



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jul-21 Aug-21



Monthly Average Prices			
Period	*Int'l	^*Dom	
	(\$/tonne)	(Rs/tonne)	
Aug-20	469	40250	
Sep-20	512	42050	
Oct-20	512	43550	
Nov-20	517	45550	
Dec-20	682	51050	
Jan-21	784	54050	
Feb-21	725	51550	
Mar-21	794	52550	
Apr-21	906	58550	
May-21	1055	66050	
Jun-21	1050	69550	
Jul-21	970	67550	
Aug-21	1030	68050	

Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

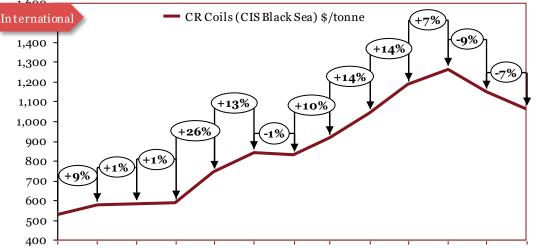
Source: Crisil

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

Outlook

In December, international prices alongside domestic prices rose on the back of higher cost for steel raw materials. In January, international prices continued to rise on robust demand. Domestic prices surged amid constrained supply and increased demand from construction, automotive and white goods sectors. In February, International prices slumped due to decreased demand. Domestic prices dipped due to traders' sufficient inventories as well as moderation in demand from auto and pipe makers. In March, international prices rose on strong demand in China post resumption of activities after New Year holidays. Domestic prices followed suit. In April, international and domestic prices surged on the back of increased demand from China. In May, international prices rose on the back of increased crude steel output from China coupled with increasing iron ore prices. Domestic prices followed suit. In June, international prices declined on the back of pressure from global governments to bring down steel price rally. Domestic prices rose despite weakened demand due to high export potential and increasing flat steel prices. In July, high volumes of exports of HRC from China weighed down on both domestic and international prices. In August, prices rallied back up marginally due to market forces and supply constraints.

Cold-Rolled (CR) Coils



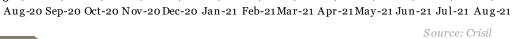
Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

Dom est ic CR Coils (Mum-16G) Rs/tonne +12% 110,000 +13% +10% 90,000 +2% 80,000 4% 70,000 +4% 60.000 50,000 40,000 30,000 20,000 10,000 0

Source: Crisil

Monthly	Average Prices
---------	-----------------------

Period	*Int'l	^*Dom	
	(\$/tonne)	(Rs/tonne)	
Aug-20	529	47350	
Sep-20	578	49350	
Oct-20	584	51350	
Nov-20	590	53350	
Dec-20	744	58850	
Jan-21	843	62850	
Feb-21	830	60350	
Mar-21	916	61350	
Apr-21	1046	69350	
May-21	1187	77350	
Jun-21	1267	81350	
Jul-21	1150	79350	
Aug-21	1064	78850	

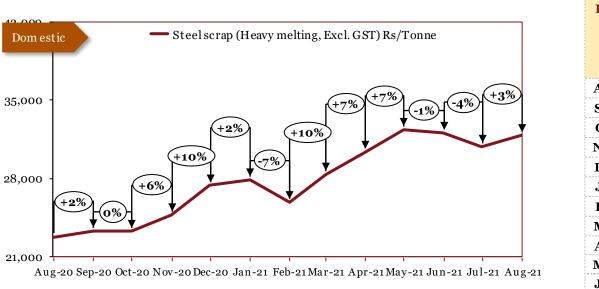


*The actual prices may vary depending on city, player, grade etc.

Outlook

In August, prices rose in tandem with HR coil prices. In September, international and domestic prices rose in line with HR coil prices. In October, international prices rose on continued strong Chinese demand, while domestic prices rose in accordance with HR Coil prices. In November, international and domestic prices rose in tandem with HR coil prices. In December, international and domestic prices rose in tandem with HR Coil prices. In January, domestic as well as international prices rose in line with HR Coils, reflecting strong demand. In February, both international and domestic prices dipped in conjunction with hot-rolled coil prices. In March, international and domestic prices rose in accordance with HR Coil prices. In April, international and domestic prices increased concurrently with HR Coils. prices. In May. prices rose mirroring HR coil prices. In June, international as well as domestic prices rose in line with increasing flat steel prices. In July and August, international prices projected downwards due to a combination of correctional market forces and unfavourable Chinese duty rebates which halted South American imports. Domestic prices fell slightly due to lower demand levels.

Steel Scrap (Heavy Melting)



Monthly Average Prices		
Period	*Dom	
	(Rs/Tonne)	
Aug-20	22800	
Sep-20	23300	
Oct-20	23300	
Nov-20	24800	
Dec-20	27400	
Jan-21	27900	
Feb-21	25900	
Mar-21	28400	
Apr-21	30400	
May-21	32400	
Jun-21	32100	
Jul-21	30900	
Aug-21	31900	

Monthly Avonage B

Source: CRISIL

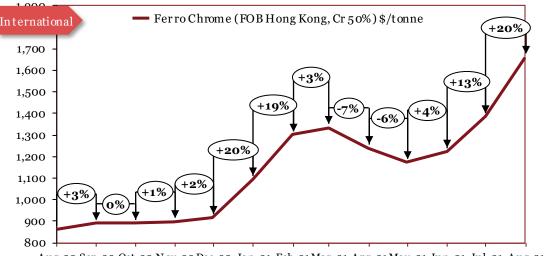
*The actual prices may	vary depending
on city, p	layer, grade etc.

Outlook

In August, domestic prices rose as Indian manufacturers had to contend with global price rise. In September, prices continued to rise on the backs of strong Chinese demand. In October, prices remained stable. In November prices rose on a ccount of higher demand for steel. In December, scrap prices rose internationally and domestically on limited supply and greater demand from developing economies. In January, scrap prices saw a slight increase, reflecting strong demand and lack of a bundant supply. In February, prices fell due to plum meting steel prices coupled with weakened demand. In March, prices rose in conjunction with steel prices. In April, domestic scrap prices increased, owing to rise in global steel prices. In May, domestic prices increased in line with global and domestic steel prices. In June, prices fell marginally due to better availability. In August, steel prices rose on account of a decline in China's steel supply.

Ferro-alloys

Ferro chrome



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

Dom estic Ferro Chrome (Cr:60%, Ex Fac) Rs/tonne 120,000 110.000 100,000 90,000 80,000 +1070,000 60,000

		-10%	+17%	F M
		+4%		 A
	+24%	+1%		 J
-2%	+22%	¥		A
	-0%)-			

Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
Aug-20	865	61300	
Sep-20	890	67300	
Oct-20	890	66100	
Nov-20	899	62600	
Dec-20	916	62400	
Jan-21	1096	76400	
Feb-21	1301	94400	
Mar-21	1335	98400	
Apr-21	1241	88400	
May-21	1173	89297	
Jun-21	1224	94400	
Jul-21	1387	110400	
Aug-21	1661	125400	

Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

Source: Crisil

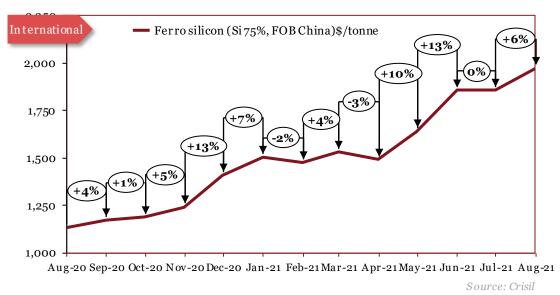
Source: Crisil

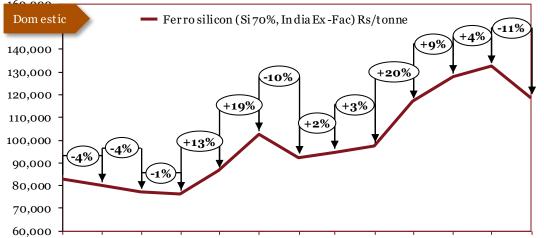
*The actual prices may vary depending on city, player, grade etc.

Outlook

In November, international prices remained stable on strong demand, while domestic prices continued to correct, as producers held excess supply in expectation of higher demand. In December, international prices rose on tighter spot supplies and higher input costs while domestic prices remained stable. In January, international and domestic rose on the back of South Africa's increased export duty coupled with reduced raw material supply and anticipation of pick up in demand. In February, international prices rose on reduced production from China due to high-carbon emission restrictions which led to shortfall in supply. Domestic prices rose on the back of limited supply and increased chrome ore prices. In March, International as well as domestic prices continued to rise due to increased buying activity from China. In April, global and domestic ferro chrome prices declined with normalcy in supply situation in China, hence moderation in exports demand. In May, international and domestic prices declined with increased supply in China, hence a moderation in exports demand. In June, international prices rose on increasing chrome ore costs. Domestic prices rose on supply issues. In August, prices rose sharply due to higher demand for ferrochrome on the back of increased stainless steel production.

Ferro silicon





Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/tonne)
Aug-20	1132	83050
Sep-20	1173	80050
Oct-20	1187	77050
Nov-20	1242	76450
Dec-20	1408	86450
Jan-21	1504	102450
Feb-21	1477	92450
Mar-21	1532	94450
Apr-21	1490	97450
May-21	1642	116950
Jun-21	1856	127950
Jul-21	1856	132450
Aug-21	1973	118450

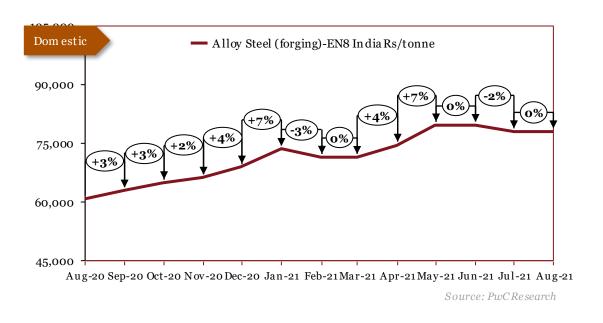
Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

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

Outlook

In December and January, international prices rose on the back of Chinese mills restocking ahead of the festive season. Domestic prices surged on increased demand, high cost of raw materials as well as increase in no. of megaprojects. In February, international price and domestic prices plummeted due to lack of trade and producers looking to liquidate stocks. In March, international prices increased with demand, while domestic prices rose on supply constraints in Meghalaya due to daily power-outages. In April, international prices declined with moderation in demand and increased supply. Domestic prices increased marginally due to continued supply constraints in Meghalaya as the producers are over-booked with existing orders amidst power disruptions. In May, international prices rose on tight supply and increased Chinese prices. Domestic prices increased due to supply constraints in Guwahati and Meghalaya. In June, global prices surged with tight supply situation and increase in Chinese prices. Domestic prices saw a spike due to continued supply constraints from major producing regions and backlog in dispatches from Bhutan. In August, international prices rose due to increased demand of ferro silicon, which is used as a warming agent in the production of steel scrap.

EN8 Alloy Steel (Forging)



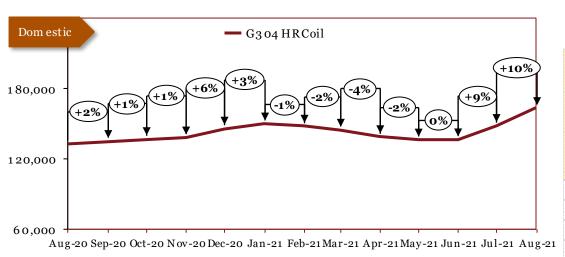
Monthly Average Prices		
*Dom Period (Rs/tonne)		
Aug-20	61000	
Sep-20	63000	
Oct-20	65000	
Nov-20	66250	
Dec-20	69000	
Jan-21	73600	
Feb-21	71500	
Mar-21	71500	
Apr-21	74600	
May-21	79750	
Jun-21	79750	
Jul-21	78000	
Aug-21	78000	

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

Outlook

In December, prices remained constant on stable market conditions. In January,, prices remained unchanged thanks to stable market conditions. In February prices remained stable. In March, domestic prices rose thanks to higher demand and improved industrial activity prior to the national lockdown. In April, prices remained stable. Prices remained stable in May. In June, prices rose as industries reopen ed across the country. In July, prices were unchanged. In August, prices rose domestically as part of the trend to higher steel prices. In September, prices rose further as steel prices rose on a tight supply. In October, prices continued to rise due to increased steel demand from industry. In November, prices continued to rise, on account of higher steel demand. In December, prices rose on stronger demand and a global trend of higher steel prices. In January, the trend of rise in prices continued domestically on shortage of demand of demand and increased supply. In February, domestic prices fell in conjunction with steel prices. In March, domestic prices remained stable. In April, domestic prices remained stable. In July, prices fell on account of a market correction. In August, prices remained unaffected.

Stainless Steel



Dom estic G304 CR Coil 240,000 +10% 180,000 120,000 60,000 Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

Monthly Domestic Average Prices		
Period	*G304 HR	*G304 CR
	(Rs/tonne)	(Rs/tonne)
Aug-20	132700	142250
Sep-20	134700	144250
Oct-20	136700	146250
Nov-20	137700	147250
Dec-20	145700	155250
Jan-21	149700	159250
Feb-21	147700	157250
Mar-21	144700	154250
Apr-21	138700	148250
May-21	136200	145750
Jun-21	136200	145750
Jul-21	148200	157750
Aug-21	163200	172750

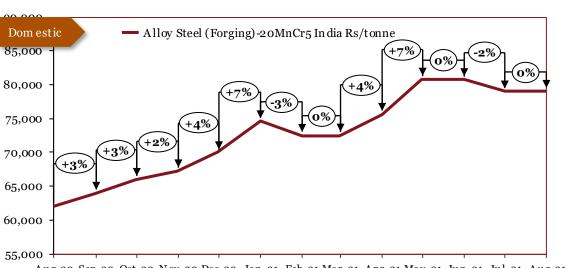
Source: PwCResearch

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

Outlook

In August, international and domestic prices rose due to higher demand, partly in China, and lower scrap availability. In September, HR Coil prices rose on the back of continued momentum in steel prices. In October, domestic prices rose on account of higher industrial demand. In November, domestic prices rose on increased demand for steel as a result of new government stimulus announcements. In December, prices rose due to higher raw material prices. In January, prices rose as steel producers and dealers increased prices to preserve their margins due to pick-up in demand across construction, automotive and the white goods sector. In February, domestic prices saw a negligible dip on the back of weakened supply. In March, domestic prices fell marginally on improved stainless-steel supply in the market. In April, domestic prices fell on the back of improved supply. In May, prices fell owing to weaker demand amidst the second wave of Covid-19. In June, prices remained unaffected. In July, a decrease in China's steel supply resulted in a rise in prices. In August, prices continued to soar due to supply-related inflationary pressures.

20MnCr5 Alloy Steel (Forging)



Monthly Average Prices		
	*Dom	
Period	(Rs/tonne)	
Aug-20	62000	
Sep-20	64000	
Oct-20	66000	
Nov-20	67250	
Dec-20	70000	
Jan-21	74600	
Feb-21	72500	
Mar-21	72500	
Apr-21	75600	
May-21	80750	
Jun-21	80750	
Jul-21	79000	
Aug-21	79000	

Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

Source: PwCResearch

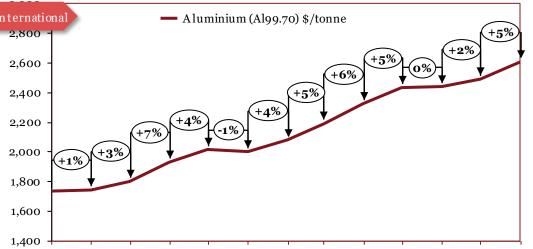
Outlook

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

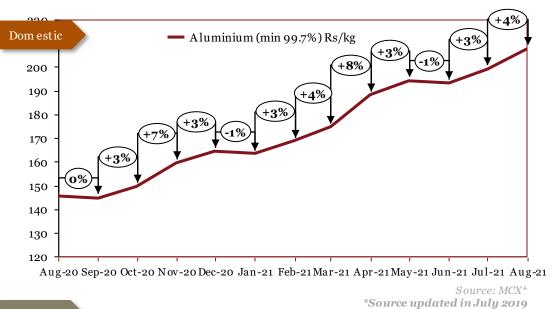
In February prices remained stable. In March, prices rose on stronger industrial activity and demand prior to the COV ID-19 lockdown. In April, prices remained stable. In May, prices remained stable. In June, prices rose on account of the gradual unlocking of the economy. In July, prices remained stable. In August, prices rose on stronger demand. In September, prices rose as steel prices continued to trend upwards. In October, price movement continued upwards as industrial demand from segments such as autom otive continued to rise. In November, prices rose, following the trend of rising steel prices. In December, prices rose on increased demand and tight supply. In January, surging steel prices globally along with short supply were key drivers to price rise. In February, prices dipped in conjunction with global and domestic steel prices amidst weaker demand. In March, domestic prices rose in line with flat steel prices coupled with increased consumption from China. In June, prices stayed stable in line with other steel alloys. In July, prices fell due to an increase in production. In August, prices remained stable.

Base Metals

Aluminium



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: LME



Monthly Average Prices

Contents | Commodity trend dashboard

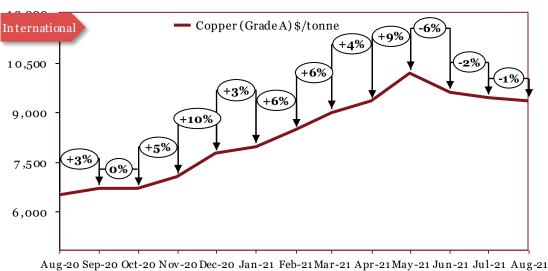
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
Aug-20	1734	146
Sep-20	1745	145
Oct-20	1803	150
Nov-20	1932	160
Dec-20	2018	165
Jan-21	2004	164
Feb-21	2080	169
Mar-21	2192	175
Apr-21	2324	188
May-21	2434	194
Jun-21	2439	193
Jul-21	2492	199
Aug-21	2611	208

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

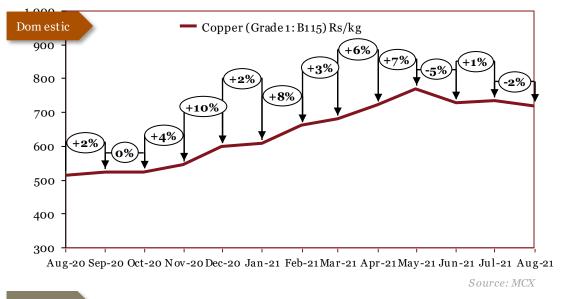
Outlook

In November, international prices rose on account of improving demand in China and the United States, leading to higher prices domestically as well. In December, international prices rose on higher demand from China and the United States, coupled with higher freight prices. Domestic prices rose in tandem. In January, global prices saw a slight dip to due rise in Chinese exports, while domestic prices softened due to subdued demand. In February, international prices rose on increased demand and a softer US Dollar Index, while domestic prices rose in line with international prices and revival in domestic demand. In March, international and domestic prices rose on demand from consumer industries, primarily from China. In April, international prices increased on the back of increased buying from China, while domestic prices rose on demand. In May, international prices rose on the back of high demand and decreased production in China. Domestic prices decreased in tandem. In June, international as well as domestic prices remained stable. In August, a supply-side bottleneck in China coupled with increasing Chinese imports of Aluminium resulted in a steep rise in prices.

Copper



Source: LME



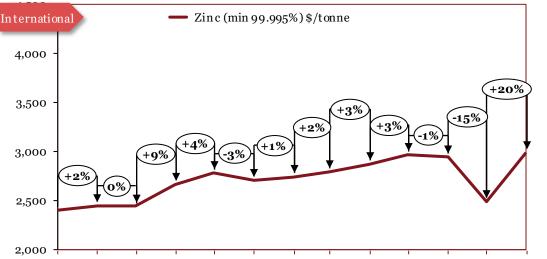
Monthly Average Prices		
	*Int'l	*Dom
Period	(\$/tonne)	(Rs/kg)
Aug-20	6497	516
Sep-20	6712	524
Oct-20	6703	524
Nov-20	7063	545
Dec-20	7755	599
Jan-21	7971	610
Feb-21	8460	662
Mar-21	9005	681
Apr-21	9336	722
May-21	10184	770
Jun-21	9612	728
Jul-21	9434	734
Aug-21	9357	720

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

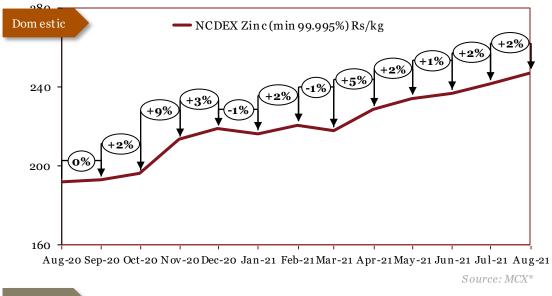
Outlook

In September, prices rose internationally and domestically as labor issues in Chile caused concerns about future supply. In October, international and domestic prices remained stable. In November, international prices rose on account of greater demand from China, reduced availability of supply. Domestic prices rose in tandem. In December, prices rose on the backs of a stronger economy and Chinese stockpiling. In January, global prices rose due to robust metal demand by China and weakening of the dollar. Domestic prices remain high on supply deficit. In February, international prices saw a spike due to increased demand from construction, electronics and auto sector. Dom estic prices rose on tight supply amidst rising demand. In March, international prices continued to rise on demand from China's manufacturing sector. Domestic prices rose in tandem. In April, international prices rose as demand from renewable energy sector and electric vehicles picked up pace. Domestic prices rose in accordance. In May, international as well as domestic prices rose, due to supply disruptions in South America. In June, international prices dropped due to excessive stock amidst reduced demand from China. Domestic prices followed suit. In July and August, international prices fell as a result of China selling 30,000 tonnes of Copper from its reserves.

Zinc



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: LME



Period	*Int'l	*Dom
	(\$/tonne)	(Rs/kg)
Aug-20	2407	192
Sep-20	2451	193
Oct-20	2442	196
Nov-20	2670	213
Dec-20	2782	219
Jan-21	2708	216
Feb-21	2743	221

2792

2875

2970

2950

2493

2989

Mar-21

Apr-21

May-21

Jun-21

Jul-21

Aug-21

218

229

234

237

242

247

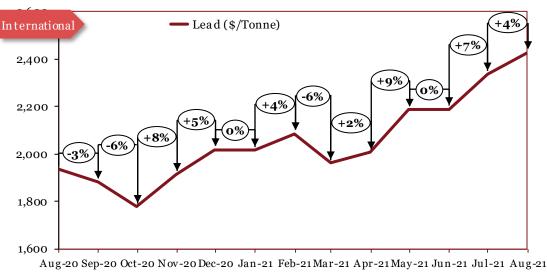
Monthly Average Prices

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

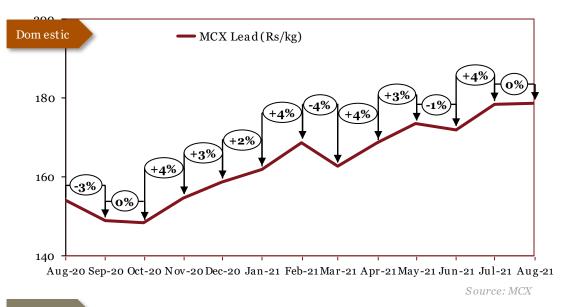
Outlook

In November, international as well as domestic prices rose on higher demand, reduced availability. In December, prices rose internationally on strong demand, while domestic prices benefited from a stronger rupee. In January, international and domestic prices dipped due to weakened demand despite constrained supply in constrained in top-producing countries. In February, international remained stable, while domestic prices rose on a pick-up in demand. In March, international prices rose on the back of tight supply and shipping delays in the US, while domestic prices dipped due to weakened demand. In April, international Zinc price increase has been supported by Chinese infrastructure demand and rebounding global auto output. Domestic prices increased on tight supply. In May, international and domestic prices rose despite growing unsold inventory, as investors continued to be bullish about the global recovery. In June, international prices saw a marginal dip due to The National Food and Strategic Reserves Administration of China announcement that it will be releasing reserves of zinc to help keep costs to Chinese manufacturers down. Domestic prices increased marginally. In July, prices saw a decline on a ccount of supply exceeding demand. In August, prices rose back up due to strong Chinese demand and shrinking global inventories.

Lead



Source: LME



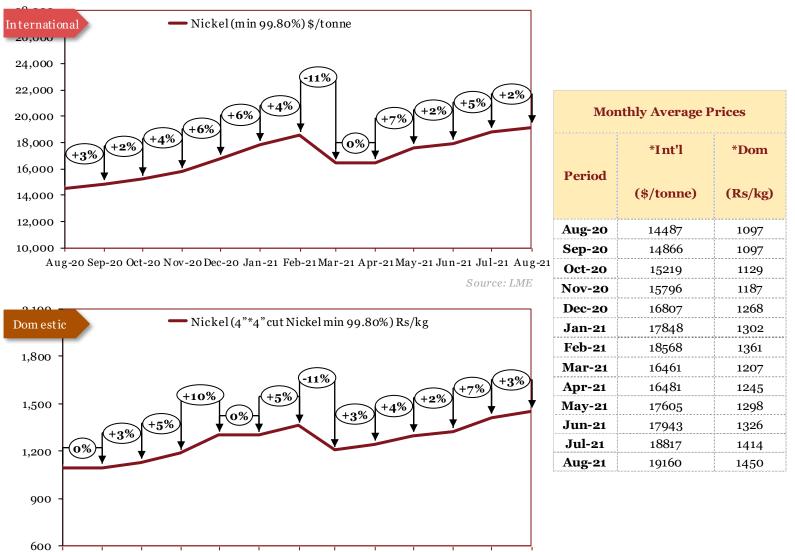
Monthly Average Prices		
Period	*Int'l	*Dom
	(\$/tonne)	(Rs/kg)
Aug-20	1935	154
Sep-20	1881	149
Oct-20	1777	148
Nov-20	1914	155
Dec-20	2019	159
Jan-21	2015	162
Feb-21	2086	169
Mar-21	1961	163
Apr-21	2006	169
May-21	2186	173
Jun-21	2189	172
Jul-21	2337	178
Aug-21	2429	179

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

Outlook

In October, international prices fell on weak demand while domestic prices remained stable. In November, prices rose on the back of an economic upturn, and demand from battery developers. Domestic prices rose in tandem as the economy continued to recover. In December, prices rose internationally, buoyed by continued low supply in the market. Domestic prices rose as the economic recovery continued. In January, international prices remained stable while domestic prices continued to rise due to increased demand in the domestic market. In February, prices rose on the back of strong demand from North America, Europe and China, whilst domestic prices rose on the back of international surging prices. In March, international and domestic prices fell on weakened demand in spite of supply tightness. In April, international and domestic prices are demand in batteries. In May, international as well as domestic prices rose on account of continued bullishness from investors and fears of supply disruptions. In June, international prices remained stable. Domestic prices saw a minimal dip due improvement in supply. In August, international prices rose as a result of declining supply. Domestic prices remained stable.

Nickel



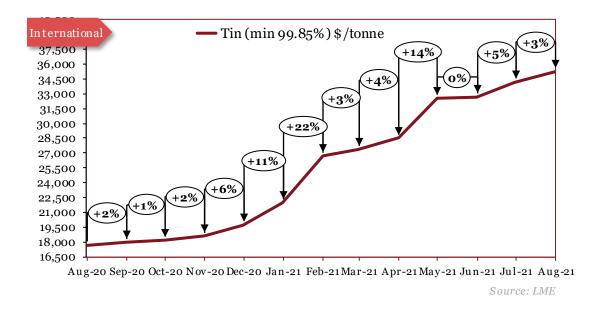
Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: MCX*

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

Outlook

In Nov ember, international prices rose on account of greater Chinese demand, with the continued In donesian export ban and typ hoons in Philippines im pacting supply. Dom estic prices rose in tandem. In December, international prices rose as demand for batteries remained exceptionally bullish, taking prices close to their previous high. Dom estic prices rose simultaneously. In January, international prices went up due to continued dem and for batteries and in transportation. Dom estic prices remained consistent. In February, international prices rose on material shortages and expectations of higher demand for nickel batteries. Dom estic prices rose on the back of greater demand from alloy makers. In March, international and dom estic prices rose on tight supply. In August, Nickel prices rose as part of the t rend of higher metals prices. In June, international prices saw a spike due to dem and from USA, Europe and China coupled with demand for EV batteries. Dom estic prices mirrored global trends. In July and August, persistent supply disruptions coupled with increasing demand continued to drive prices up.

Tin



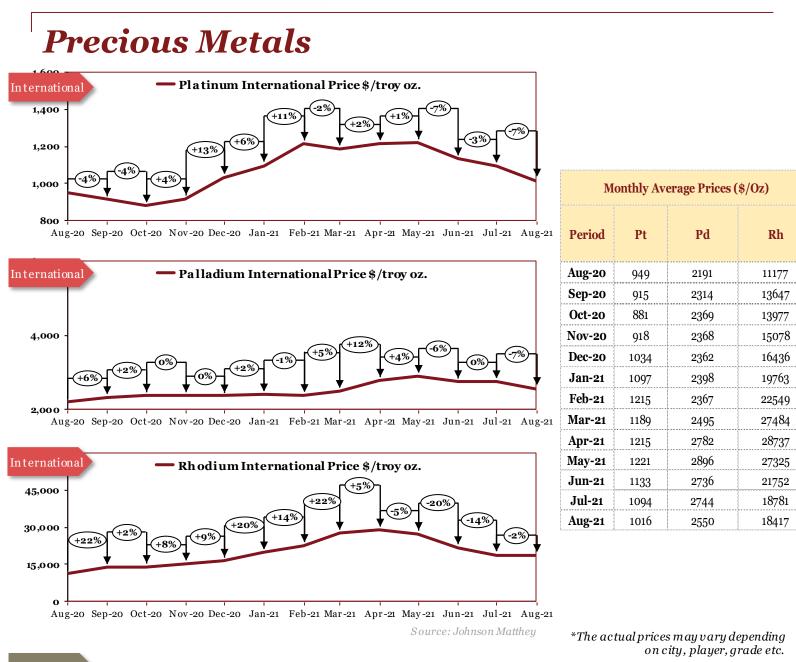
Monthly Average Prices		
Period	*Int'l (\$/tonne)	
Aug-20	17672	
Sep-20	17946	
Oct-20	18154	
Nov-20	18568	
Dec-20	19727	
Jan-21	21955	
Feb-21	26717	
Mar-21	27396	
Apr-21	28508	
May-21	32524	
Jun-21	32678	
Jul-21	34183	
Aug-21	35253	

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

Outlook

In August, international prices rose slightly. In September, prices rose internationally on account of stronger demand for electronics, particularly in Mainland China. In October, international prices rose slightly on In October, prices rose as supply was constrained due to lockdown in Peru. In November, international prices rose on the back of a resurgent global economy, particularly in China, along with continued strong demand for electronic products during the pandemic. In December, international prices surged due to a major shortfall in supply not expected to be filled for months. In January, international prices surged further as consumers continued to boost global demand for electronics demand. In March, international tin prices rose due to tight supply and increased demand from China's electronic industry. In April, international prices rose on tight supply amidst reduced supply from Indonesia. In May, international prices surged on increased demand, mainly from the electronics sector. In June, global prices remained steady. In July and August, persistent supply disruptions coupled with increasing demand continued to drive prices up.

Precious Metals

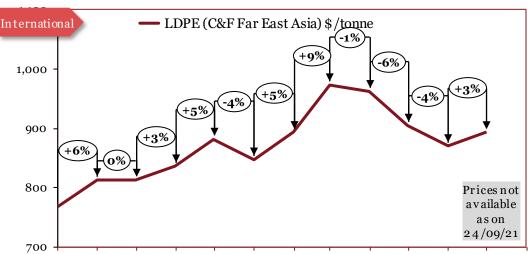


Outlook

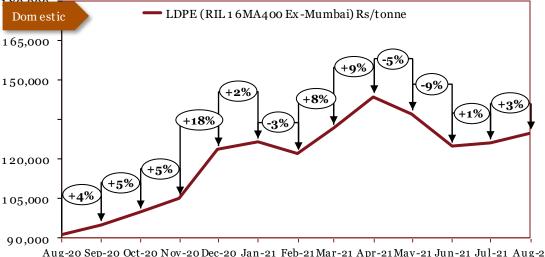
In February, Platinum prices rose on the back of dem and from China as palladium's substitution, while palladium prices remain ed constant. Rh odium prices surged amid supply tightness, existing deficit, stricter emissions regulation standards im plem ented worldwide and strong dem and from China and Europe. In March, Platinum prices declined on reduced buying, while palladium prices rose on tight inventories and increased demand from Automotive, industrial, and electric power sectors Rhodium prices continued to surge on the back of supply deficit as global economies look to meet emission norms. In April, platinum, palladium and rhodium prices rose on increased demand from the auto industry as gov ernments became stricter on emission norms. In May, Platinum and palladium prices rose on increased demand. Rh odium prices fell on ease in supply. In June, Platinum and Palladium prices fell owing to strengthening of the dollar. Rhod ium prices fell on the back of y should im prove as supply has started to normalize. In July and August, the prices of Platinum, Palladium and Rhodium fell drastically on account of decreased consumer spending and market activity in anticipation of a third wave of COVID-19.

Polymers & Rubber

Low density polyethylene (LDPE)



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Crisil



Monthly Average Prices			
Period	*Int'l	*Dom	
	(\$/tonne)	(Rs/tonne)	
Aug-20	767	91403	
Sep-20	813	95103	
Oct-20	813	99879	
Nov-20	836	105106	
Dec-20	882	123653	
Jan-21	847	126609	
Feb-21	893	122180	
Mar-21	973	131732	
Apr-21	962	143661	
May-21	905	137145	
Jun-21	870	124861	
Jul-21	893	126218	
Aug-21		129954	

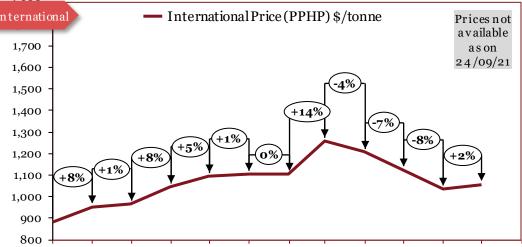
Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Reliance Industries Ltd.

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

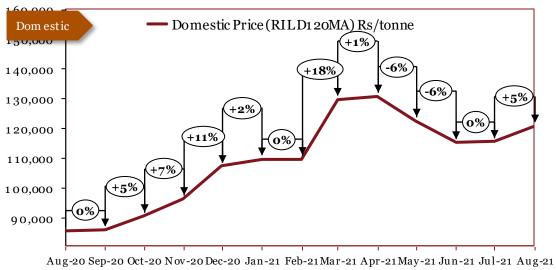
Outlook

In June, international prices rose, corresponding with the rise in oil prices. In July, domestic prices continued their upturn. In August, international prices declined slightly, while domestic prices rose on account of higher oil prices. In September, domestic prices rose on the backs of higher consumer goods sales as the festive season approaches. In October, domestic prices continued to rise as producers receive higher export dem and, with limited availability and high shipping costs. In November, domestic prices rose on the back of higher crude oil prices. In December and January, domestic prices rose on increased crude oil prices. In February, international prices rose on the back of increased crude oil prices, domestic prices dropped on the back of limited dem and amidst sufficient supply. In March, domestic prices rose in conjunction with ethylene prices amidst tight supply. In April, domestic prices increased on supply tightness amidst reduced production from US. In May, prices fell on the back of stable movement of raw material and decreased margins. In June, domestic prices fell further due to ease in supply tightness and continued demand from consumer industries. In July, both domestic and international prices rose in tandem with rising crude oil prices. In August, Reliance Industries Limited arbitrarily raised domestic prices, on the back of strong demand.

Polypropylene (PP)



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Crisil



Source:	Reliance	Industries	Ltd.

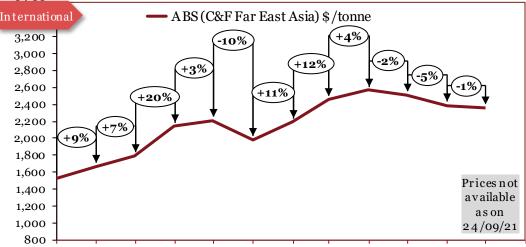
*The actual prices may vary depending on city, player, grade etc.

Outlook

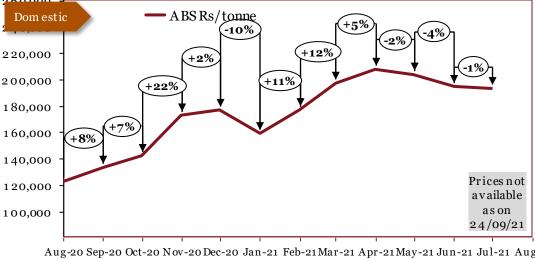
In April, prices declined on low crude costs. In June, international prices rose on higher oil prices. Domestic prices followed suit. In July, domestic prices rose on account of higher oil prices. In July, domestic prices continued their upturn. In August, prices rose on account of higher oil prices. In September, domestic prices remained stable. In October, domestic prices rose on greater demand from exports, as well as a shortage of supply in the market. In November, domestic prices continued to trend upwards. In December, international prices rose alongside the spurt in oil prices. In January, domestic prices rose on the back of increased crude oil prices. In February, international prices rose on demand, while domestic prices remained constant. In March, domestic prices surged on high demand and tight supply. In April, domestic prices increased slightly due to supply tightness. In May, prices dipped due to ease in demand and supply tightness. In June, prices fell in line with LDPE. In July, international prices rose slightly due to higher crude oil prices whereas domestic prices remained stable. In August, domestic prices moved upwards due to increased demand for PP as a raw material in manufacturing Personal Protective Equipment (PPE).

Monthly Average Prices						
Period	*Int'l	*Dom				
	(\$/tonne)	(Rs/tonne)				
Aug-20	883	85636				
Sep-20	954	85917				
Oct-20	964	90503				
Nov-20	1045	96407				
Dec-20	1096	107261				
Jan-21	1106	109697				
Feb-21	1106	109658				
Mar-21	1259	129681				
Apr-21	1208	130673				
May-21	1127	122586				
Jun-21	1035	115206				
Jul-21	1056	115581				
Aug-21		120813				

Acrylonitrile Butadiene Styrene (ABS)



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Crisil



	*Int'l	*Dom
Period	(\$/tonne)	(Rs/tonne)
Aug-20	1522	122880
Sep-20	1664	133120
Oct-20	1788	142080
Nov-20	2142	172800
Dec-20	2213	176640
Jan-21	1982	158720
Feb-21	2195	176640
Mar-21	2460	197120
Apr-21	2567	207360
May-21	2513	203520
Jun-21	2390	194560
Jul-21	2354	193280
Aug-21	{	

Monthly Average Prices

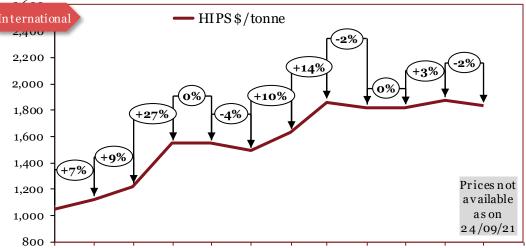
Outlook

A crylonitrile Butadiene Styrene (ABS) is a rigid thermoplastic polymer that provides properties such as flexibility, resilience to temperature and good appearance. It is popular due to its low production cost and the ease with which the material is machined by manufacturers. It is made by polymerizing styrene and acrylonitrile.

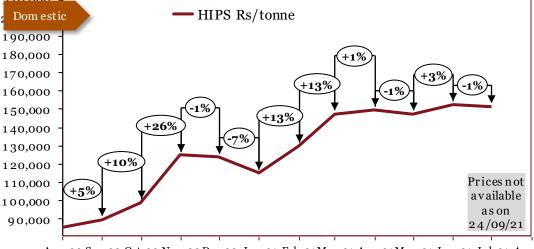
In March and April, international prices rose on the back of increased demand from consumption in appliances and consumer goods. Do mestic prices followed suit. In May, international as well as domestic prices dropped due to contracted margins which was a result of increase in raw material prices of styrene. In July, international prices marginally fell due to lower demand. Do mestic prices followed suit.

Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Crisil

High Impact Polystyrene (HIPS)



Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Source: Crisil



Monthly Average Prices						
Period	*Int'l (\$/tonne)	*Dom (Rs/tonne)				
Aug-20	1051	85490				
Sep-20	1122	89610				
Oct-20	1221	98880				
Nov-20	1548	124630				
Dec-20	1548	123600				
Jan-21	1491	114845				
Feb-21	1633	129780				
Mar-21	1860	147290				
Apr-21	1818	149350				
May-21	1818	147290				
Jun-21	1874	152440				
Jul-21	1832	151410				
Aug-21		{				

Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21

Source: Crisil

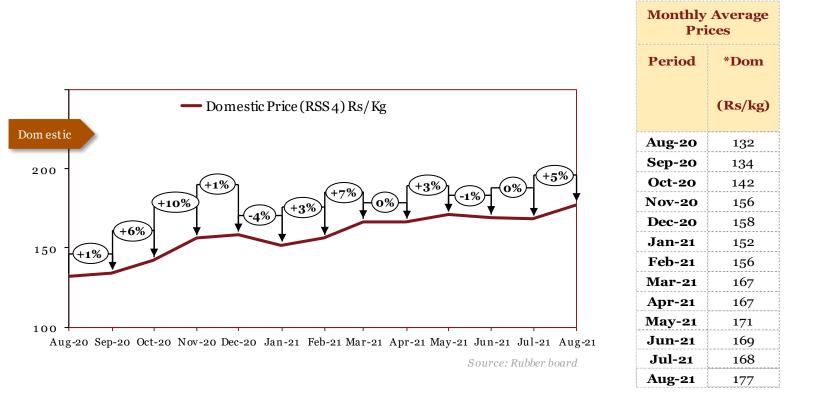
Outlook

Polystyrene exhibits electrical and chemical resistance. It is easy to manufacture, highly elastic and softens when heated beyond its glass transition temperature. Its mechanical properties include its impact strength, elongation, toughness, and modulus. It is mainly used in car fittings, display bases, and buttons.

High Impact Polystyrene is commonly used in automotive instrument panels and petrol tanks.

In March, international as well as domestic prices rose in line with ABS. In April, international prices declined due to subdued demand, while domestic prices rose marginally. In May, international prices remained stable, while domestic prices dipped in line with ABS. In July, both domestic and international prices fell in accordance with raw material and ABS prices.

Rubber

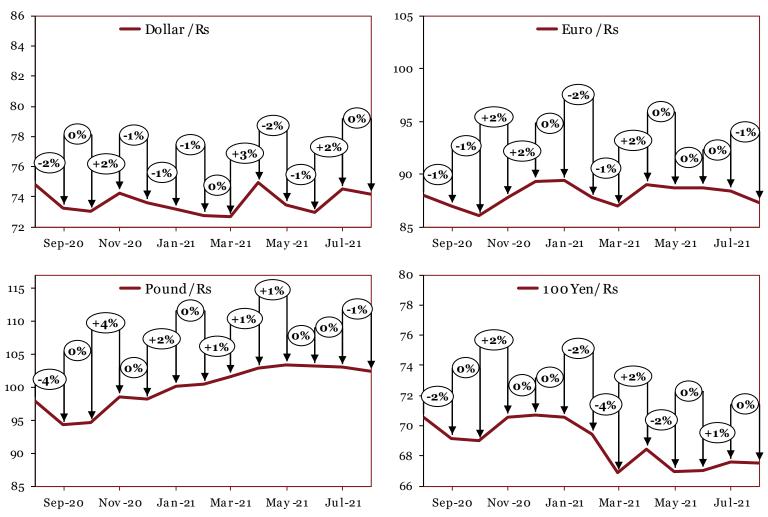


*The actual prices may vary depending on city, player, grade etc.

Outlook

In September, prices rose on strong Chinese demand and supply challenges in Southeast Asia. In October, prices continued to move upwards due to continued demand in China. In November, domestic prices continued to move upwards, with strong demand from China along with supply constraints in Thailand and other parts of Southeast Asia partly responsible. In December, international prices rose alongside the spurt in oil prices. In December, prices rose slightly, stabilising after months of upward movement. In January, domestic rubber prices saw a dip due to reduced demand. In February, prices rose on the back of reluctance shown by growers to sell their produce at the prevailing levels in anticipation of future prices. In March, domestic rubber prices rose due to higher oil prices and due to chronic labor shortages in regional rubber-growing areas of Kerala. In April, domestic rubber prices remained unchanged. In May, prices rose on the back fall in production in Kerala due to the Covid-19 pandemic. In June, prices dipped marginally due to lower demand from automotive and rubber gloves manufacturing players. In July, prices continued to gradually fall as rubber production started to bounce back to prepandemic levels. In August, prices increased due to seasonal supply disruptions.

Appendices

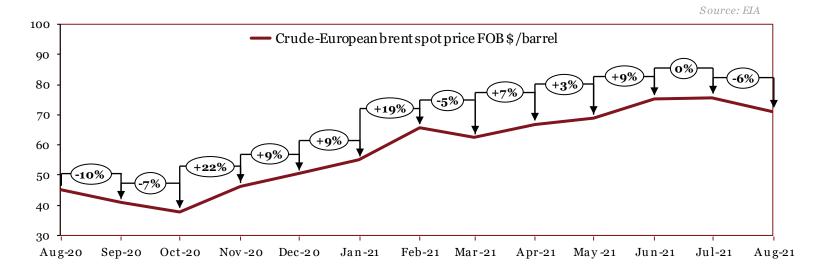


Forex Movement

Source: Reserve Bank of India

	Monthly Average Prices (Rs)												
	Aug-20	Sep-20	Oct -20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
\$	75	73	73	74	74	73	73	73	75	73	73	75	74
£	98	94	95	99	98	100	100	102	103	103	103	103	102
€	88	87	86	88	89	89	88	87	89	89	89	88	87
¥	71	69	69	71	71	71	69	67	68	67	67	68	68

Crude Oil



Monthly Average Prices (\$/barrel)												
Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21
45	41	38	46	51	55	66	63	67	69	75	76	71

Commodity Specifications

Commodity	International	Domestic
Iron Ore	IOECI635 Index (CIF China) - (Fe63.5%) CIF China	Crisil - Grade 1:58% to below 60% Fe Fines - Grade 2:60% to below 62% Fe Fines - Grade 3:62% to below 65% Fe Fines - Grade 4:65% and above Fe Fines
Pig Iron	Crisil -Foundry grade FOB CIS	Crisil -Foundry grade ex-factory, India
Stainless steel	NA	PwC Research -G 304 CR Coil -G 304 HR Coil
Wire rod	Crisil -CIS Black Sea (US \$/Tonne)	Crisil - Wire rods: 5.5 mm (Prices are inclusive of excise duty by exclusive of VAT/Sales tax)
Steel Billets	Crisil -FOB CIS Black Sea Previously: Bloomberg Black Sea Steel Billet Spot FOB	Crisil - 100^100 mm (Avg. prices collated from 2- 3 locations)
Hot-rolled coils	Crisil -FOB Black Sea	Crisil - 14G 2mm (Avg. prices collated from 2-3 locations)
Cold-rolled coils	Crisil -(CIS) FOB Black Sea	Crisil - Mumbai 16G (Avg. prices collated from 2-3 locations)
Steel Scrap	NA	Crisil - Heavy melting (excl. GST)
EN 8	NA	PwC Research -EN8 Alloy forging
20MnCr5	NA	PwC Research -Alloy forging
Ferro chrome	Crisil : FOB Hong Kong Cr 50%	Crisil: Ex-factory Cr 60%
Ferro silicon	Crisil - FOB China Si 75%	Crisil - Ex-factory Si 70%

Commodity Specifications

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
ZincLME-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 Specifications

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		ities of 99.95% for platinum and palladium,			
Palladium	and 99.9% for rhodium				
Rhodium					
Low density polyethylene (LDPE)	International price (C&FFEA) \$/tonne	RIL-16MA400 grade			
Polypropylene (PP)	International Price (PPHP) \$/tonne	RIL-D120MA grade			
Acrylonitrile Butadiene Styrene (ABS)	International price (C&FFEA) \$/tonne	Landed Cost Rs/tonne			
High Impact Polystyrene (HIPS)	International price \$/tonne	Landed Cost Rs/tonne			
Rubber Prices	NA	NCDEX/Rubber board - RSS 4 (Ribbed Smoked Sheet 4) ex- warehouse Kochi exclusive of all taxes			
Forex Movement	RBI reference rates	·			
Crude	European Brent spot price FOB \$/barrel – Energy Information Administration (EIA)				



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