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## **Commodity price monitor** October-21

Prepared for ACMA

Strictly private and confidential

October 2021





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# **Commodity trend dashboard**

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

## Calendar Year 2021: Q vs. Q update

| Commodity         | Region              |          | Q-o-Q Down |  |
|-------------------|---------------------|----------|------------|--|
| Iron & Steel      |                     |          |            |  |
| Iron Ore          | International       |          | -22.75% 🔻  |  |
|                   | Domestic low grade  |          |            |  |
|                   | Domestic high grade |          |            |  |
| Pig Iron          | International       |          | -7.17%     |  |
|                   | Domestic            | 9.90% 🔺  |            |  |
| Stainless steel   | Domestic            | 13.03%   |            |  |
|                   | Domestic            | 12.30%   |            |  |
| Wire rod          | International       | 4.25%    |            |  |
|                   | Domestic            | 9.18%    |            |  |
| Steel Billets     | International       | 2.28%    |            |  |
|                   | Domestic            | 1.28%    |            |  |
| Hot-rolled coils  | International       |          | -8.75% 🔻   |  |
|                   | Domestic            | 1.54%    |            |  |
| Cold-rolled coils | International       |          | -10.34% 🔻  |  |
|                   | Domestic            | 1.07%    |            |  |
| Steel Scrap       | Domestic            | 4.86%    |            |  |
| EN8               | Domestic            | 1.61%    |            |  |
| 20MnCr5           | Domestic            | 1.59%    |            |  |
| Ferro-alloys      |                     |          |            |  |
|                   | International       | 13.74%   |            |  |
| Ferro chrome      | Domestic            | 6.93%    |            |  |
|                   | International       | 73.64% 🔺 |            |  |
| Ferro silicon     | Domestic            | 91.43%   |            |  |

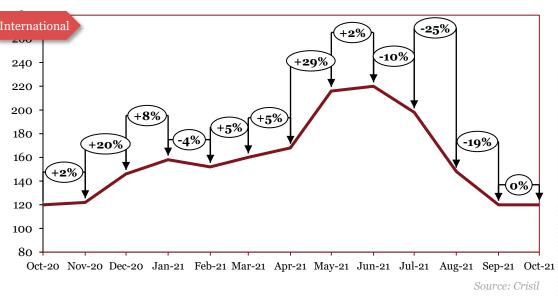
October 2021

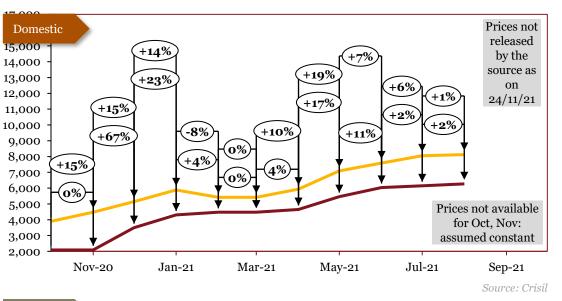
## Commodity trend dashboard Quarter-on-Quarter changes (2/2)- Rolling view

| Commodity                | Region        | Q-o-Q Up | Q-o-Q Down |
|--------------------------|---------------|----------|------------|
| Base Metals              |               |          |            |
| Al                       | International | 11.62%   |            |
| Aluminum                 | Domestic      | 12.60%   |            |
| C                        | International | 4.33%    |            |
| Copper                   | Domestic      | 4.43%    |            |
| Zinc                     | International | 18.60%   |            |
| Zinc                     | Domestic      | 14.99%   |            |
| Lood                     | International |          | -0.08% 🔻   |
| Lead                     | Domestic      | 3.33%    |            |
| Niekol                   | International | 1.53%    |            |
| Nickel                   | Domestic      | 4.85%    |            |
| Tie                      | International | 8.95%    |            |
| Tin                      | Domestic      | N/A      |            |
| Precious Metals          |               |          |            |
| Platinum                 | International |          | -0.60% 🔻   |
| Palladium                | International |          | -18.04% 🔻  |
| Rhodium                  | International |          | -19.44% 🔻  |
| Polymers                 |               |          |            |
| Low density polyethylene | International |          |            |
| (LDPE)                   | Domestic      | 11.45%   |            |
| Polypropylene (PP)       | International |          |            |
|                          | Domestic      | 9.06%    |            |
| Acrylonitrile Butadiene  | International |          |            |
| Styrene (ABS)            | Domestic      |          |            |
| Polystyrene (PS)         | International |          |            |
| Polystyrelle (PS)        | Domestic      |          |            |
| Rubber                   | Domestic      |          | -1.24% 🔻   |
| Currency Exchange        |               |          |            |
| Dollar                   | International | 1.29%    |            |
| Pound                    | International |          | -0.93% 🔻   |
| Euro                     | International |          | -0.59% 🔻   |
| Yen                      | International |          | -0.30% 🔻   |

## Calendar Year 2021: Q vs. Q update

## Iron & Steel





|        | *Int'l   | *Dom           |                |
|--------|----------|----------------|----------------|
| Period | \$/tonne | Rs/t           | onne           |
|        |          | 65% &<br>below | 65% &<br>above |
| Oct-20 | 120      | 2090           | 3901           |
| Nov-20 | 122      | 2090           | 4473           |
| Dec-20 | 146      | 3499           | 5148           |
| Jan-21 | 158      | 4301           | 5888           |
| Feb-21 | 152      | 4473           | 5418           |
| Mar-21 | 160      | 4477           | 5419           |
| Apr-21 | 168      | 4652           | 5936           |
| May-21 | 216      | 5462           | 7089           |
| Jun-21 | 220      | 6040           | 7589           |
| Jul-21 | 198      | 6146           | 8047           |
| Aug-21 | 148      | 6271           | 8124           |
| Sep-21 | 120      | {              |                |
| Oct-21 | 120      | }              |                |

\*The actual prices may vary depending

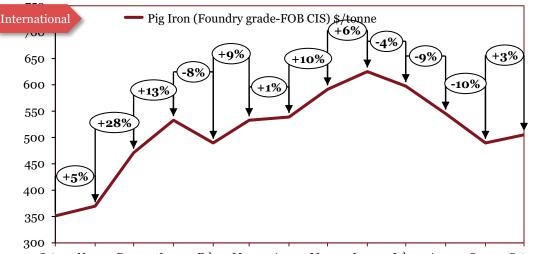
on city, player, grade etc.

## Outlook

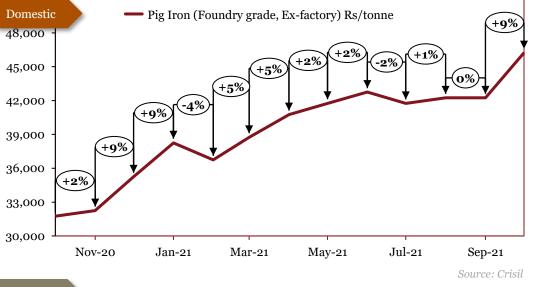
In October, international prices declined due to lower Chinese imports, along with greater supply from Brazil and South Africa. In November, international prices rose on account of a shortage of available supply in the market. In December, prices rose aggressively on the backs of trade disputes between 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 infrastructure 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. In September, China's decision to cut steel production by 10% through the months of August-December continued to place the iron ore market in a surplus, and prices declined even more. In October, international prices remained unaffected.

**Iron Ore** 

## Pig Iron



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



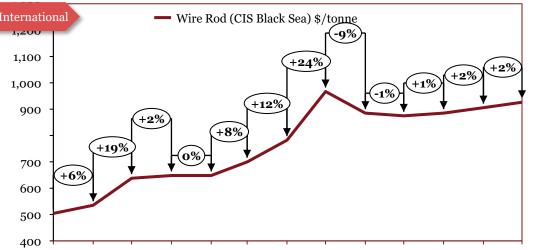
| Monthly Average Prices |          |          |  |  |
|------------------------|----------|----------|--|--|
| Period                 | *Int'l   | *Dom     |  |  |
|                        | \$/tonne | Rs/tonne |  |  |
| Oct-20                 | 351      | 31750    |  |  |
| Nov-20                 | 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    |  |  |
| Sep-21                 | 490      | 42250    |  |  |
| Oct-21                 | 505      | 46250    |  |  |

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

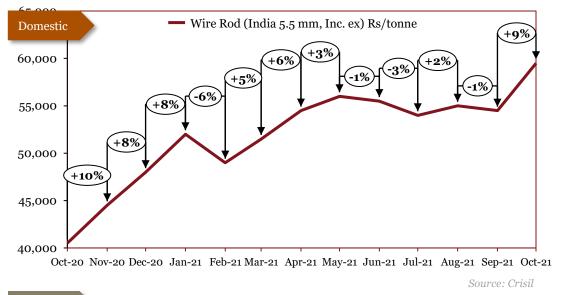
#### Outlook

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 weakened 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. In September, international prices declined due to a decline of iron price indicators caused by a cut in China's steel supply. Domestic prices remained unaffected. In October, both international and domestic prices rose as a result of increasing production costs; prices of coking coal and metallurgical coke – an essential ingredient in blast furnace iron-making – have been soaring.

## Wire Rod



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



| Monthly Average Prices |            |            |  |
|------------------------|------------|------------|--|
| Period                 | ^*Int'l    | *Dom       |  |
|                        | (\$/tonne) | (Rs/tonne) |  |
| 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      |  |
| Sep-21                 | 906        | 54494      |  |
| Oct-21                 | 926        | 59494      |  |

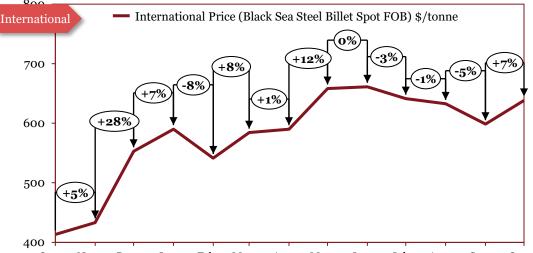
\*The actual prices may vary depending on city, player, grade etc.

#### Outlook

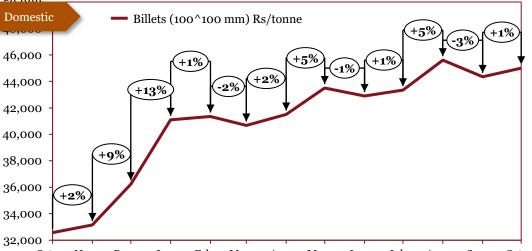
In October, international and domestic prices remained stable. In November, international as well as domestic prices rose due to the higher cost of iron ore. In December, a boom in Chinese construction drove higher international and domestic prices. In January, international prices rose on tight supply 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. Domestic prices followed suit. In June, international price fell on the back of decreased demand from China and Southern Europe. Domestic prices remained stable. In August, a mid-month increase in transaction prices from various steelmakers drove prices slightly upwards. In September, production cuts in China caused a slight increase in international prices. Domestic prices slightly reduced on account of a market correction. In October, both international and domestic prices rose due to rising scrap and electricity costs, supported by positive market conditions.

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

**Steel Billets** 



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



| Monthly Average Prices |              |            |
|------------------------|--------------|------------|
| Period                 | ^*Int'l *Dom |            |
|                        | (\$/tonne)   | (Rs/tonne) |
| Oct-20                 | 413          | 32567      |
| Nov-20                 | 433          | 33150      |
| Dec-20                 | 553          | 36233      |
| Jan-21                 | 590          | 41100      |
| Feb-21                 | 542          | 41350      |
| Mar-21                 | 584          | 40667      |
| Apr-21                 | 590          | 41500      |
| May-21                 | 658          | 43500      |
| Jun-21                 | 661          | 42900      |
| Jul-21                 | 641          | 43340      |
| Aug-21                 | 633          | 45600      |
| Sep-21                 | 599          | 44350      |
| Oct-21                 | 638          | 45000      |

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

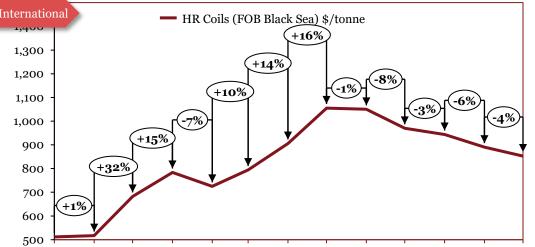
#### Outlook

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. In September, international prices dipped due to a softening of demand. Domestic prices fell in tandem with international prices. In October, international prices rose on account of increasing scrap costs and reports of better power supply in China, along with solid performances by ferrous futures. Domestic prices slightly rose in tandem with international prices.

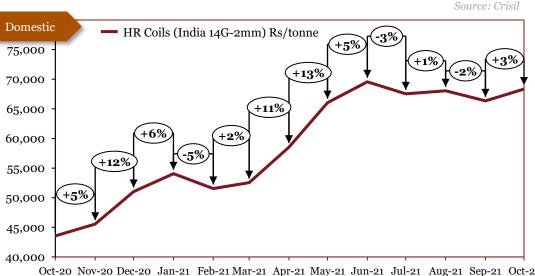
^International prices changed due to change in the grade

city, player, grade etc.

## Hot-Rolled (HR) Coils



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



| Monthly Average Prices |            |            |
|------------------------|------------|------------|
| Period                 | *Int'l     | ^*Dom      |
|                        | (\$/tonne) | (Rs/tonne) |
| 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                 | 943        | 68050      |
| Sep-21                 | 890        | 66350      |
| Oct-21                 | 853        | 68350      |

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

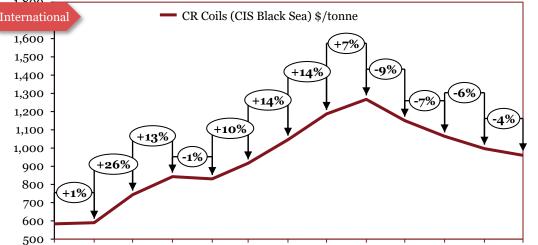
Source: Crisil

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

#### Outlook

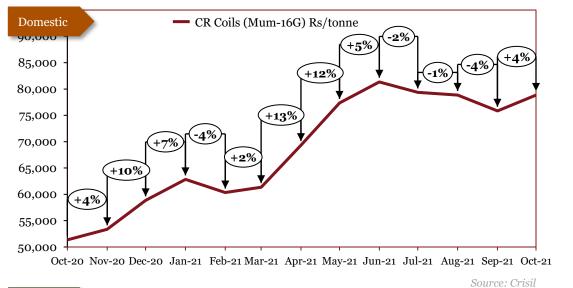
In February, International prices slumped due to decreased demand, Domestic prices dipped due to traders' sufficient inventories as well as moderation in demand from auto and pipe makers. In March, international prices rose on strong demand in China post resumption of activities after New Year holidays. 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. In September, international as well as domestic prices fell further as a result of growing automotive demand concerns. In October, international prices declined amid reduced end-user demand. Domestic prices surged as Mills raised their prices with demand increasing on active restocking by traders and a sharp increase in spot prices.

## Cold-Rolled (CR) Coils



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

Source: Crisil



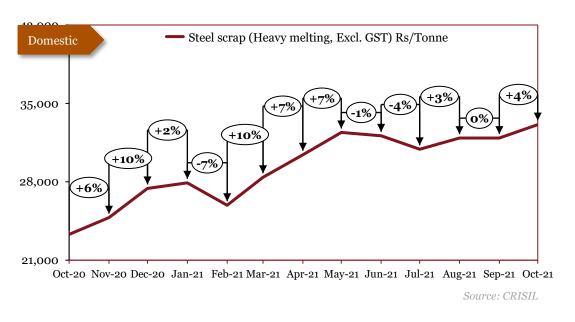
| Monthly Average Prices |            |            |  |
|------------------------|------------|------------|--|
| Period *Int'l          |            | ^*Dom      |  |
|                        | (\$/tonne) | (Rs/tonne) |  |
| Oct-20                 | 584        | 51350      |  |
| Nov-20                 | 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      |  |
| Sep-21                 | 996        | 75850      |  |
| Oct-21                 | 959        | 78850      |  |

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

#### Outlook

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. 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. In September, prices fell due to thin trading liquidity amid lower demand. In October, both domestic and international prices fell in line with HRC prices, as international prices fell and domestic prices surged.

## Steel Scrap (Heavy Melting)



| Monthly Average<br>Prices |            |  |
|---------------------------|------------|--|
| Period                    | *Dom       |  |
|                           | (Rs/Tonne) |  |
| 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      |  |
| Sep-21                    | 31900      |  |
| Oct-21                    | 33100      |  |

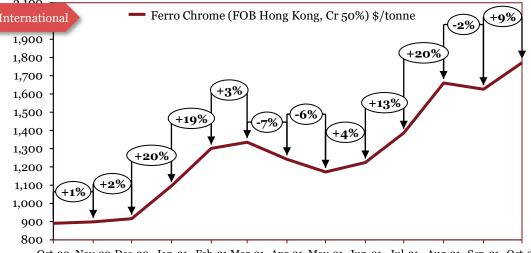
\*The actual prices may vary depending on city, player, grade etc.

#### 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 account 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 abundant supply. In February, prices fell due to plummeting steel prices coupled with weakened demand. In March, prices rose in conjunction with steel prices. In April, domestic scrap prices fell marginally due to better availability. In August, steel prices rose on account of a decline in China's steel supply. In September, prices remained unaffected. In October, prices increased as growing desperation for steel scrap imports at steel mills led to a sellers' market for bulk and container cargoes, along with a rise in Turkish prices and growing bullishness amongst American suppliers.

## **Ferro-alloys**

## Ferro chrome

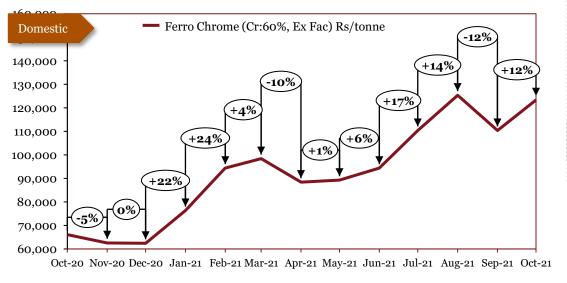


| Monthly Average Prices |            |            |  |
|------------------------|------------|------------|--|
| Period                 | *Int'l     | *Dom       |  |
|                        | (\$/tonne) | (Rs/tonne) |  |
| Oct-20                 | 890        | 66100      |  |
| Nov-20                 | 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     |  |
| Sep-21                 | 1626       | 110400     |  |
| Oct-21                 | 1772       | 123400     |  |

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

Source: Crisil

Source: Crisil

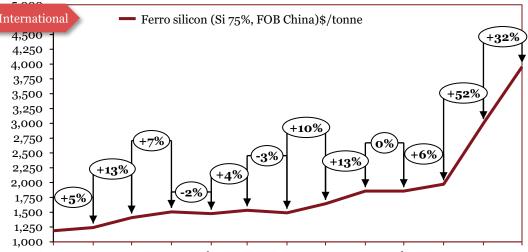


\*The actual prices may vary depending on city, player, grade etc.

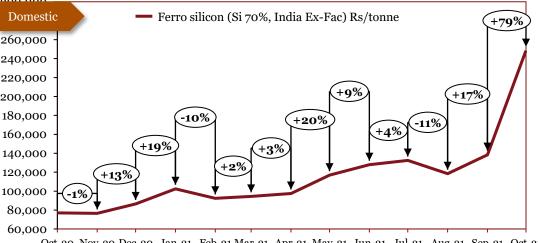
#### Outlook

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. In September, domestic prices fell heavily due to production cuts. International prices weren't impacted as much, as China's electricity constraints caused a leap in prices towards the end of the month. In October, international prices continued to set new highs in response to tight supply and strong demand, along with rising electricity prices. Domestic prices followed suit.

## Ferro silicon



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



| Monthly Average Prices    |                      |            |  |
|---------------------------|----------------------|------------|--|
| Period                    | d *Int'l *Dom        |            |  |
|                           | (\$/tonne)           | (Rs/tonne) |  |
| Oct-20                    | 1187                 | 77050      |  |
| Nov-20                    | 1242                 | 76450      |  |
| Dec-20                    | 1408                 | 86450      |  |
| Jan-21                    | 1504                 | 102450     |  |
| Feb-21                    | 1477                 | 92450      |  |
| <b>Mar-21</b> 1532 944    |                      | 94450      |  |
| <b>Apr-21</b> 1490 9745   |                      | 97450      |  |
| May-21                    | 1642                 | 116950     |  |
| Jun-21                    | 1856                 | 127950     |  |
| Jul-21                    | <b>1</b> 1856 132450 |            |  |
| Aug-21                    | 1973                 | 118450     |  |
| Sep-21 3002 138450        |                      | 138450     |  |
| <b>Oct-21</b> 3954 248450 |                      |            |  |

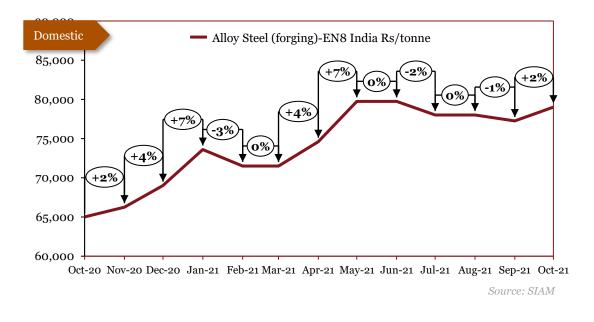
Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21 Oct-21

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

#### Outlook

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 Meghalava. 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. In September, international prices rose by over 50% as spot availability became very tight, caused by production cuts in China in order to met energy consumption targets. Domestic prices rose in tandem with international prices. In October, prices continued to shatter multi-year highs on the back of rising electricity prices – amidst power cuts – along with rising futures prices and increasing Chinese price of Magnesium – the key consumer of 75% ferro-silicon.

## EN8 Alloy Steel (Forging)



| Monthly Average<br>Prices |                    |  |
|---------------------------|--------------------|--|
| Period                    | *Dom<br>(Rs/tonne) |  |
| Oct-20                    | 65000              |  |
| Nov-20                    | 66250              |  |
| Dec-20                    | 69000              |  |
| Jan-21                    | 73600              |  |
| Feb-21                    | <b>b-21</b> 71500  |  |
| <b>Mar-21</b> 71500       |                    |  |
| Apr-21                    | 74600              |  |
| May-21                    | 79750              |  |
| Jun-21                    | 79750              |  |
| Jul-21                    | 78000              |  |
| Aug-21                    | 78000              |  |
| Sep-21                    | 77250              |  |
| Oct-21 79000              |                    |  |

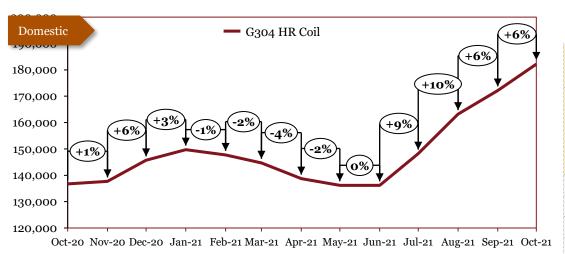
\*The actual prices may vary depending on city, player, grade etc.

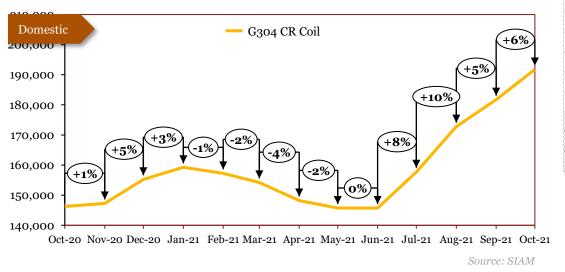
#### Outlook

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 reopened 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 rose amidst tight supply. In June, domestic prices remained stable. In July, prices fell on account of a market correction. In August, prices remained unaffected. In September, prices slightly dipped on account of a softening in demand. In October, prices rose in accordance with rising steel prices.

Strictly private and confidential

## **Stainless Steel**





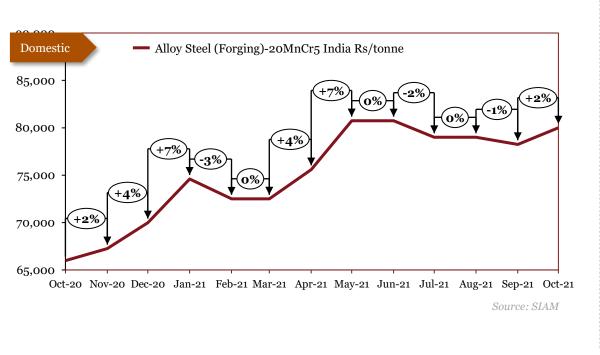
| Monthly Domestic Average Prices |                             |            |  |
|---------------------------------|-----------------------------|------------|--|
| Period                          | *G304 HR                    | *G304 CR   |  |
|                                 | (Rs/tonne)                  | (Rs/tonne) |  |
| 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                          | <b>Jun-21</b> 136200 145750 |            |  |
| Jul-21                          | <b>1</b> 148200 157750      |            |  |
| Aug-21                          | <b>1</b> 163200 172750      |            |  |
| Sep-21                          | 172200                      | 181750     |  |
| Oct-21                          | 182200                      | 191750     |  |

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

#### Outlook

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. In September, the continued cuts in China's steel production – caused by energy consumption requirements – meant that prices were pushed even further up. In October, prices continued to soar as steel mills hiked prices on the back of rising power costs, despite a weakening of demand owing to the same.

## 20MnCr5 Alloy Steel (Forging)



| Monthly Average Prices       |                  |  |
|------------------------------|------------------|--|
| *Dom<br>Period<br>(Rs/tonne) |                  |  |
| Oct-20                       | 66000            |  |
| Nov-20                       | 67250            |  |
| Dec-20                       | 70000            |  |
| Jan-21                       | 74600            |  |
| Feb-21                       | 72500            |  |
| Mar-21                       | 72500            |  |
| Apr-21                       | <b>-21</b> 75600 |  |
| May-21                       | 80750            |  |
| Jun-21                       | 80750            |  |
| Jul-21                       | 79000            |  |
| Aug-21                       | 79000            |  |
| Sep-21                       | 78250            |  |
| Oct-21                       | 80000            |  |

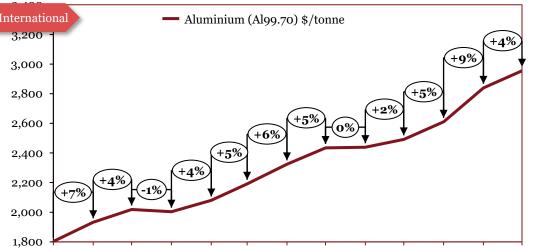
\*The actual prices may vary depending on city, player, grade etc.

#### Outlook

In March, prices rose on stronger industrial activity and demand prior to the COVID-19 lockdown. In April, prices remained stable. In May, prices remained stable. 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 automotive 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. In September, prices stayed stable in line with other steel alloys. In July, prices fell due to an increase in production. In August, prices remained stable. In September, prices stayed stable in line with other steel alloys. In July, prices rose rose amid a worsening of the power supply crisis.

# Base Metals

## Aluminium



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



| Monthly Average Prices |             |         |  |
|------------------------|-------------|---------|--|
|                        | *Int'l      | *Dom    |  |
| Period                 | (\$/tonne)  | (Rs/kg) |  |
| 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                 | Aug-21 2611 |         |  |
| Sep-21                 | 2839        | 227     |  |

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

2955

238

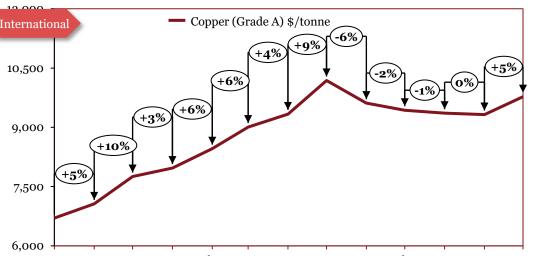
Oct-21

#### Outlook

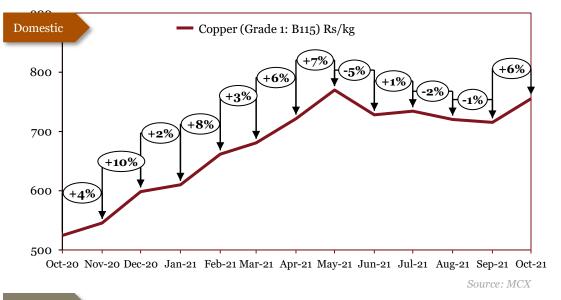
Domestic prices rose in tandem. In January, global prices saw a slight dip to due rise in Chinese exports, while domestic prices softened due to subdued demand. In February, international prices rose on increased demand and a softer US Dollar Index, while domestic prices rose in line with international 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. In September, both domestic and international prices rose by almost 10%, as soaring energy prices resulted in an increase in production costs. In October, both international and domestic prices continued to increase as LME Aluminium stocks hit their lowest levels since March 2020, provoking highly bullish market sentiment. This was aided by China's power restrictions.

Iron & Steel | Ferro-alloys | Base Metals | Precious Metals | Polymers & Rubber | Appendices

Copper



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



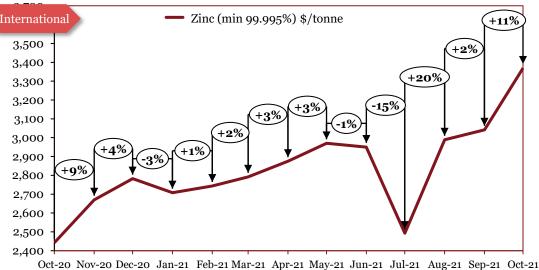
| Monthly Average Prices |            |         |
|------------------------|------------|---------|
|                        | *Int'l     | *Dom    |
| Period                 | (\$/tonne) | (Rs/kg) |
| Oct-20                 | 6703       | 524     |
| Nov-20                 | 7063       | 545     |
| 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     |
| Sep-21                 | 9324       | 715     |
| Oct-21                 | 9777       | 755     |

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

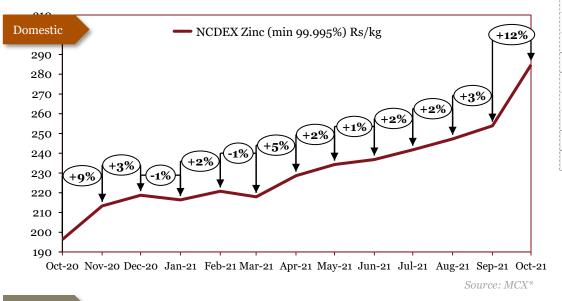
#### Outlook

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. Domestic 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 fell as a result of China selling 30,000 tonnes of Copper from its reserves. In September, both international and domestic prices remained largely unaffected. In October, both domestic and international prices fell as reports indicated copper production fell almost 10% Y-o-Y.

## Zinc



1n-21 Jul-21 Aug-21 Sep-21 Oct-21 Source: LME



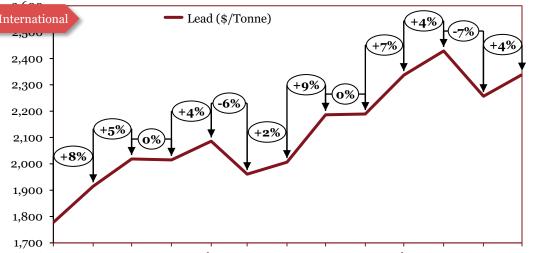
| Monthly Average Prices |            |         |  |
|------------------------|------------|---------|--|
| Period                 | *Int'l     | *Dom    |  |
|                        | (\$/tonne) | (Rs/kg) |  |
| Oct-20                 | 2442       | 196     |  |
| Nov-20                 | 2670       | 213     |  |
| Dec-20                 | 2782       | 219     |  |
| Jan-21                 | 2708       | 216     |  |
| Feb-21                 | 2743       | 221     |  |
| Mar-21                 | 2792       | 218     |  |
| Apr-21                 | 2875       | 229     |  |
| May-21                 | 2970       | 234     |  |
| Jun-21                 | 2950       | 237     |  |
| Jul-21                 | 2493       | 242     |  |
| Aug-21                 | 2989       | 247     |  |
| Sep-21                 | 3042       | 254     |  |
| Oct-21                 | 3369       | 285     |  |
|                        |            |         |  |

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

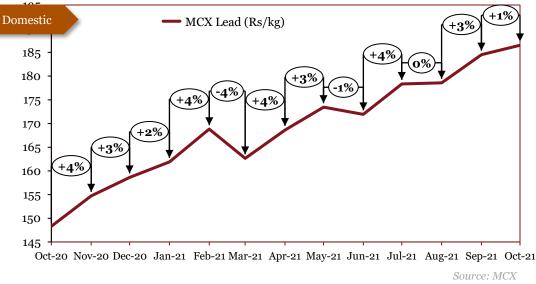
#### Outlook

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 account of supply exceeding demand. In August, prices rose back up due to strong Chinese demand and shrinking global inventories. In September, prices rose slightly on account of rising input costs. In October, both domestic and international prices continued to post massive gains as reports indicate that Nyrstar - one of Europe and the world's major zinc producers - is set to cut production by up to 50% at its three European smelters in response to the surge in energy prices.

## Lead



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



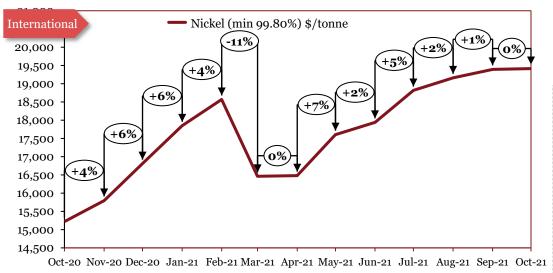
| Monthly Average Prices |            |         |
|------------------------|------------|---------|
|                        | *Int'l     | *Dom    |
| Period                 | (\$/tonne) | (Rs/kg) |
| Oct-20                 | 1777       | 148     |
| Nov-20                 | 1914       | 155     |
| 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     |
| Sep-21                 | 2257       | 185     |
| Oct-21                 | 2339       | 186     |

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

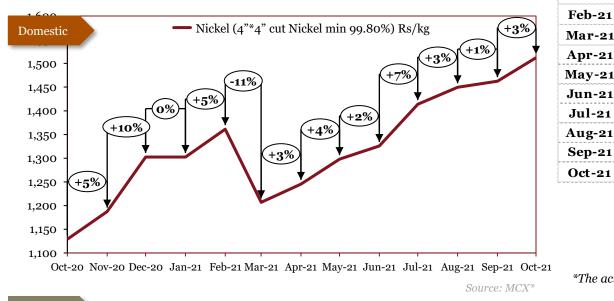
# Domestic prices rose in tandem as the economy continued to recover. In December, prices rose internationally, buoyed by continued low supply in the market. Domestic prices rose as the economic recovery continued. In January, international prices remained stable while domestic prices continued to rise 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 increased, owing to increased 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. In September, international prices fell sharply due to a steep fall in demand. Domestic prices slightly increased due to soaring energy costs. In October, international prices rose on account of tight supply. Domestic prices remained largely unaffected.

Outlook

## Nickel



| Source: | IMF     |
|---------|---------|
| Dource. | 1111111 |



| May-21 | 17605 | 1298 |
|--------|-------|------|
| Jun-21 | 17943 | 1326 |
| Jul-21 | 18817 | 1414 |
| Aug-21 | 19160 | 1450 |
| Sep-21 | 19394 | 1462 |
| Oct-21 | 19416 | 1512 |
|        |       |      |
|        |       |      |

**Monthly Average Prices** 

\*Int'l

(\$/tonne)

15219

15796

16807

17848

18568

16461

16481

Period

Oct-20

Nov-20

Dec-20

Jan-21

\*Dom

(Rs/kg)

1129

1187

1268

1302

1361

1207

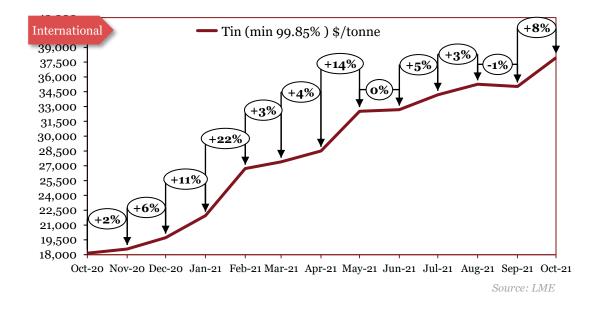
1245

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

#### Outlook

Domestic prices rose in tandem. In December, international prices rose as demand for batteries remained exceptionally bullish, taking prices close to their previous high. Domestic prices rose simultaneously. In January, international prices went up due to continued demand for batteries and in transportation. Domestic prices remained consistent. In February, international prices rose on material shortages and expectations of higher demand for nickel batteries. Domestic prices rose on the back of greater demand from alloy makers. In March, international and domestic prices declined on the back of cautious investors amidst weak demand. In April, international prices remained unchanged, domestic prices rose on tight supply. In August, Nickel prices rose as part of the trend of higher metals prices. In June, international prices saw a spike due to demand from USA, Europe and China coupled with demand for EV batteries. Domestic prices up. In September, both international and domestic prices rose remained relatively constant under stable market conditions. In October, international prices rose on account of power supply concerns.

## Tin



| Monthly Average<br>Prices      |       |  |
|--------------------------------|-------|--|
| *Int'l<br>Period<br>(\$/tonne) |       |  |
| Oct-20                         | 18154 |  |
| Nov-20                         | 18568 |  |
| Dec-20 19727                   |       |  |
| <b>Jan-21</b> 21955            |       |  |
| <b>Feb-21</b> 26717            |       |  |
| Mar-21                         | 27396 |  |
| Apr-21                         | 28508 |  |
| May-21                         | 32524 |  |
| Jun-21                         | 32678 |  |
| Jul-21                         | 34183 |  |
| Aug-21 35253                   |       |  |
| Sep-21 35034                   |       |  |
| Oct-21 37942                   |       |  |

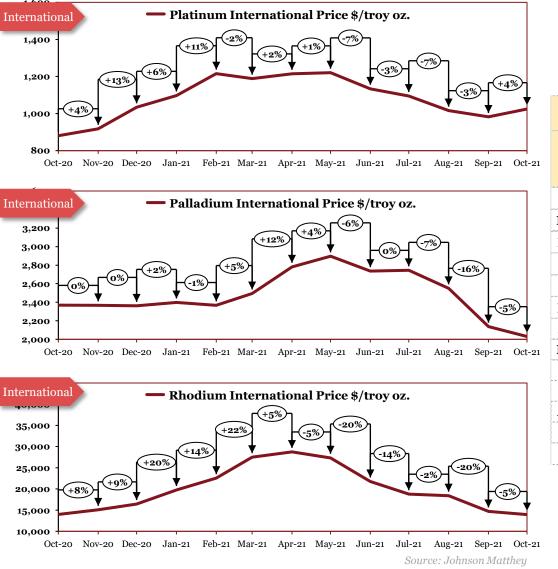
\*The actual prices may vary depending on city, player, grade etc.

#### Outlook

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. In February, prices surged on the back of low supply and inventories, coupled with resurgent consumer 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. In September, prices remained largely unaffected. In October, prices surged despite low demand due to continued tight supply, caused by power and supply issues.

# Precious Metals

## **Precious Metals**



| Monthly Average Prices (\$/Oz) |      |      |       |
|--------------------------------|------|------|-------|
| Period                         | Pt   | Pd   | Rh    |
| Oct-20                         | 881  | 2369 | 13977 |
| Nov-20                         | 918  | 2368 | 15078 |
| Dec-20                         | 1034 | 2362 | 16436 |
| Jan-21                         | 1097 | 2398 | 19763 |
| Feb-21                         | 1215 | 2367 | 22549 |
| Mar-21                         | 1189 | 2495 | 27484 |
| Apr-21                         | 1215 | 2782 | 28737 |
| May-21                         | 1221 | 2896 | 27325 |
| Jun-21                         | 1133 | 2736 | 21752 |
| Jul-21                         | 1094 | 2744 | 18781 |
| Aug-21                         | 1016 | 2550 | 18417 |
| Sep-21                         | 982  | 2137 | 14692 |
| Oct-21                         | 1025 | 2030 | 13933 |

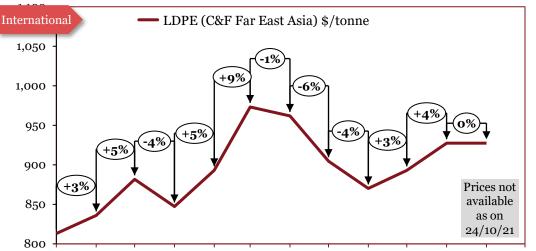
\*The actual prices may vary depending on city, player, grade etc.

#### Outlook

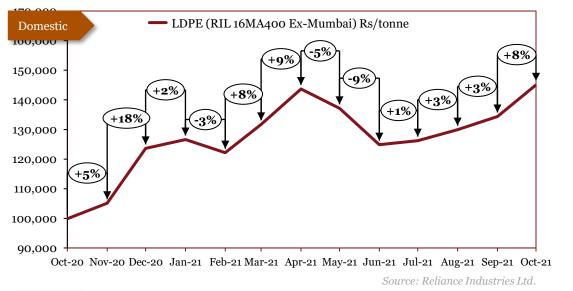
In March, Platinum prices declined on reduced buying, while palladium prices rose on tight inventories and increased demand from Automotive, industrial, and electric power sectors Rhodium prices continued to surge on the back of supply deficit as global economies look to meet emission norms. In April, platinum, palladium and rhodium prices rose on increased demand from the auto industry as governments became stricter on emission norms. In May, Platinum and palladium prices rose on increased demand. Rhodium prices fell on ease in supply. In June, Platinum and Palladium prices fell owing to strengthening of the dollar. Rhodium prices fell on the back of y should improve 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. In September, the continued lack of demand - caused by the semiconductor shortage – caused a massive decline in the prices of Palladium and Rhodium. Platinum's demand wasn't hit as hard due to its various uses, thus it's price dropped only marginally. In October, prices of Palladium and Rhodium continued to fall amid the ongoing semiconductor shortage – which induced a lack of demand. Platinum's price rose slightly due to supply tightness.

# Polymers & Rubber

## Low density polyethylene (LDPE)



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



|        | (\$/tonne) | (Rs/tonne) |
|--------|------------|------------|
| 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 | 927        | 129954     |
| Sep-21 | 927        | 121756     |
| Oct-21 |            | 130200     |

**Monthly Average Prices** 

\*Dom

\*Int'l

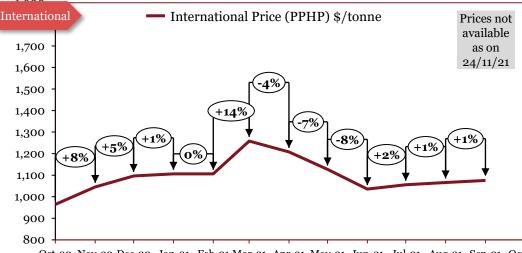
Period

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

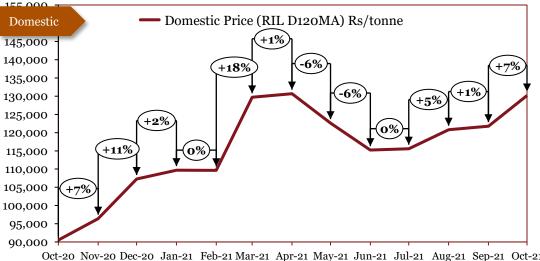
#### Outlook

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 demand, 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 demand 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. In September, prices rose due to rising oil prices.

## Polypropylene (PP)



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



| Monthly Average Prices |            |            |  |  |
|------------------------|------------|------------|--|--|
| Period                 | *Int'l     | *Dom       |  |  |
|                        | (\$/tonne) | (Rs/tonne) |  |  |
| 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                 | 1066       | 120813     |  |  |
| Sep-21                 | 1076       | 121756     |  |  |
| Oct-21                 |            | 130200     |  |  |

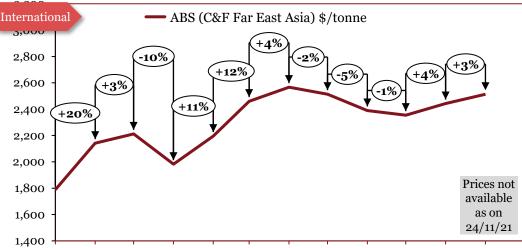
Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21 Oct-21 Source: Reliance Industries Ltd.

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

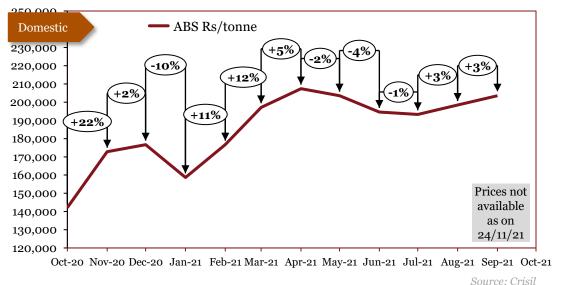
#### Outlook

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). In October, prices rose in tandem with the steep rise in crude oil prices.

## Acrylonitrile Butadiene Styrene (ABS)



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



| Monthly Average Prices |            |            |  |  |
|------------------------|------------|------------|--|--|
| Period                 | *Int'l     | *Dom       |  |  |
|                        | (\$/tonne) | (Rs/tonne) |  |  |
| 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                 | 2443       | 198400     |  |  |
| Sep-21                 | 2513       | 203520     |  |  |
| Oct-21                 |            |            |  |  |

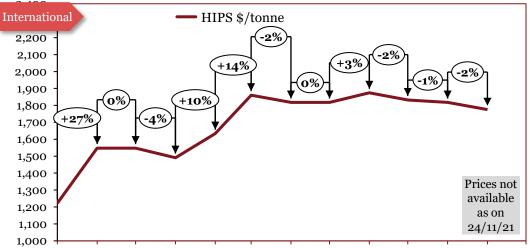
Monthly Assonage Duice

#### Outlook

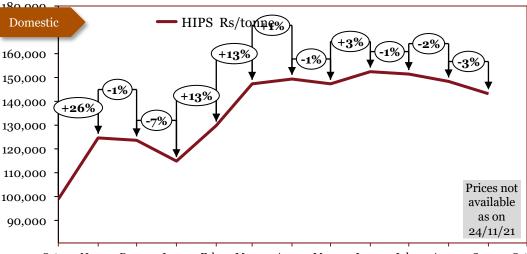
Acrylonitrile Butadiene Styrene (ABS) is a rigid thermoplastic polymer that provides properties such as flexibility, resilience to temperature and good appearance. It is popular due to its low production cost and the ease with which the material is machined by manufacturers. It is made by polymerizing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

In March and April, international prices rose on the back of increased demand from consumption in appliances and consumer goods. Domestic 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. Domestic prices followed suit. In August and September, both international and domestic prices increased due to rising oil prices.

## High Impact Polystyrene (HIPS)



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



| Monthly Average Prices |                      |                    |  |  |
|------------------------|----------------------|--------------------|--|--|
| Period                 | *Int'l<br>(\$/tonne) | *Dom<br>(Rs/tonne) |  |  |
| 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                 | 1818                 | 148320             |  |  |
| Sep-21                 | 1775                 | 143170             |  |  |
| Oct-21                 |                      |                    |  |  |

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

Source: Crisil

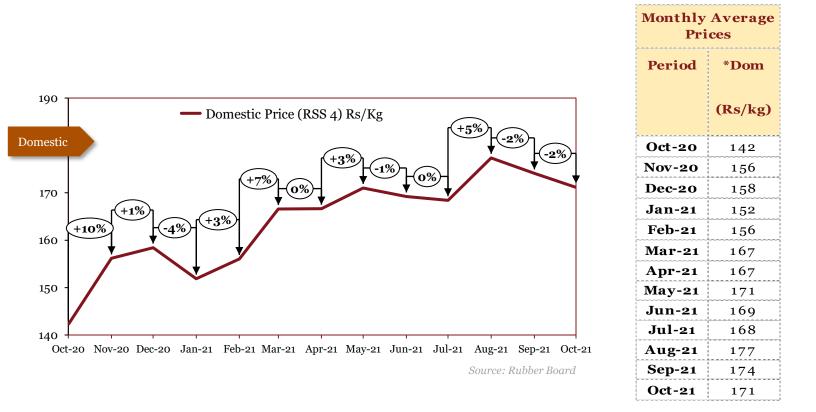
#### Outlook

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. In August, domestic prices fell due to a lack of demand. International prices remained relatively stable. In September, both international as well as domestic prices dipped slightly due to a lack of demand.

## Rubber

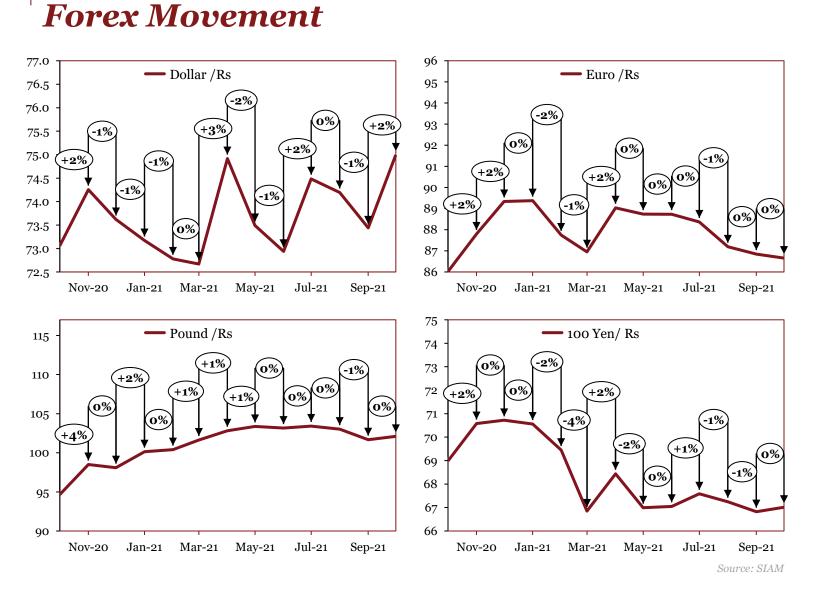


\*The actual prices may vary depending on city, player, grade etc.

#### Outlook

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 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 pre-pandemic levels. In August, prices increased due to seasonal supply disruptions. In September, prices fell marginally due to soft demand, caused by lower exports to China. In October, prices continued to slip as demand from the automobile industry slowed down, owing to the semiconductor shortage.

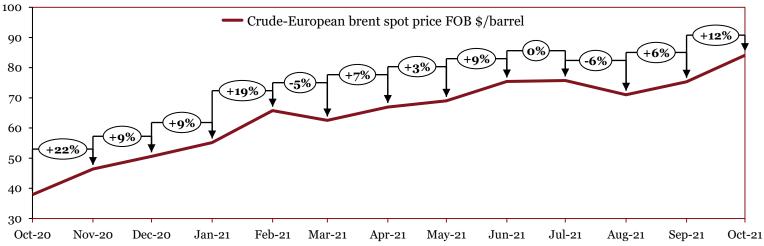
## **Appendices**



#### Monthly Average Prices (Rs) Jun-21 Nov-20 Dec-20 Jan-21 Mar-21 Apr-21 May-21 Jul-21 Oct-20 Feb-21 Aug-21 Sep-21 **Oct-21** \$ £ € ¥

## Crude Oil





|        |        |        | ]      | Monthly | Average | Prices (\$ | s/barrel) |        |        |        |        |        |
|--------|--------|--------|--------|---------|---------|------------|-----------|--------|--------|--------|--------|--------|
| Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21  | Mar-21  | Apr-21     | May-21    | Jun-21 | Jul-21 | Aug-21 | Sep-21 | Oct-21 |
| 38     | 46     | 51     | 55     | 66      | 63      | 67         | 69        | 75     | 76     | 71     | 75     | 84     |

## **Commodity Specifications**

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

## **Commodity Specifications**

| Commodity | International  | Domestic  |  |  |
|-----------|--|---|--|--|
| Aluminium | LME<br>-Primary aluminium with impurities no<br>greater than the chemical<br>composition of one of the registered<br>designations:<br>•P1020A in the North American and<br>International Registration Record<br>entitled "International Designations and<br>Chemical Composition Limits<br>for Unalloyed Aluminium" (revised<br>March 2007)<br>•Al99.70 in the GB/T 1196-2008<br>Standard entitled "Unalloyed<br>aluminium ingots for remelting" | NCDEX, MCX (July'19 onwards)<br>-Primary aluminium 99.7% purity<br>(minimum) form: ingots, T-bars,  |  |  |
| Copper    | LME<br>-Grade A copper must conform to the<br>chemical composition of one of<br>the following standards:<br>•BS EN 1978:1998 - Cu-CATH-1<br>•GB/T 467-2010 - Cu-CATH-1<br>•ASTM B115-10 - cathode Grade 1  | MCX<br>- Grade 1 electrolytic copper as per B115<br>specification   |  |  |
| Zinc      | LME<br>-Special high-grade zinc of 99.995%<br>purity (minimum) must conform to<br>the chemical composition of one of the<br>following standards:<br>•BS EN 1179:2003 - 99.995% grade<br>•ISO 752:2004 - ZN-1 grade<br>•ASTM B6-12 - LME grade<br>•GB/T 470-2008 - Zn99.995 grade   | NCDEX, MCX (July'19 onwards)<br>- Zinc of 99.995% minimum purity. Zinc<br>must conform with the<br>99.995% graded chemical composition of<br>BS EN 1179:1996 Standard<br>entitled "Zinc and Zinc alloys primary Zinc"<br>Form: ingots |  |  |
| Lead      | LME<br>- Lead of 99.97% purity (minimum)<br>conforming to BS EN 12659:1999<br>- GB/T 469/2005  | MCX<br>- Lead ingots with minimum purity of<br>99.97%   |  |  |

## **Commodity Specifications**

| Commodity                                   | International   | Domestic  |  |
|---|---|---|--|
| Nickel                                      | LME<br>- Nickel of 99.80% purity (minimum)<br>conforming to B39-79 (2013)<br>- GB/T 6516-2010 | NCDEX, MCX (July'19 onwards)<br>- 4"*4" approved pure cut Nickel of 99.80%<br>purity (minimum)      |  |
| Tin   | LME<br>- Tin of 99.85% purity (minimum)<br>conforming to BS EN 610:1996                       | Bloomberg<br>- Tin (min 99.85% ) \$/tonne   |  |
| Platinum                                    |   | ities of 99.95% for platinum and palladium,   |  |
| Palladium                                   | and 99.9% for rhodium   |   |  |
| Rhodium                                     | -   |   |  |
| Low density<br>polyethylene<br>(LDPE)       | International price (C&F FEA) \$/tonne  | RIL-16MA400 grade   |  |
| Polypropylene<br>(PP)                       | International Price (PPHP) \$/tonne   | RIL-D120MA grade  |  |
| Acrylonitrile<br>Butadiene<br>Styrene (ABS) | International price (C&F FEA) \$/tonne  | Landed Cost Rs/tonne  |  |
| High Impact<br>Polystyrene<br>(HIPS)        | International price \$/tonne  | Landed Cost Rs/tonne  |  |
| <b>Rubber Prices</b>                        | NA  | NCDEX/Rubber board<br>- RSS 4 (Ribbed Smoked Sheet 4) ex-<br>warehouse Kochi exclusive of all taxes |  |
| Forex<br>Movement                           | RBI reference rates   | ·   |  |
| Crude                                       | European Brent spot price FOB \$/barrel – Energy Information Administration (EIA)             |   |  |



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