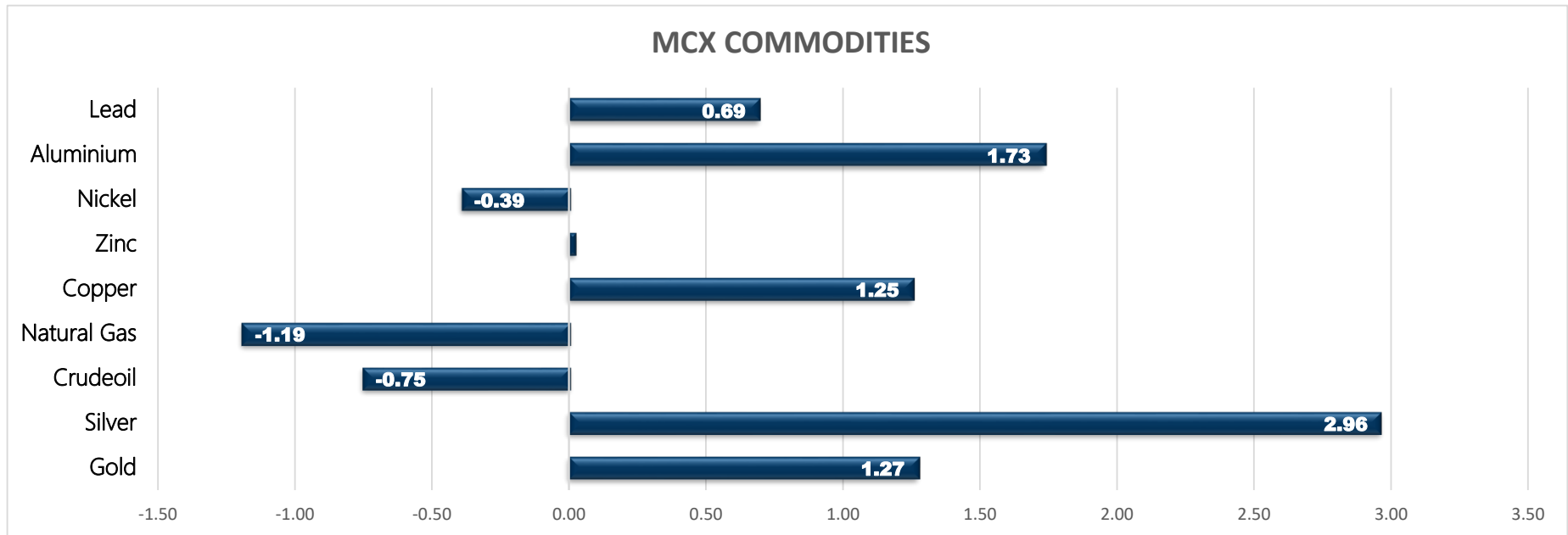


| Commodity   | Close    | % Change | Commodity     | Ltp*     | % Change | Economical Data                        |
|-------------|----------|----------|---------------|----------|----------|--|
| Gold        | 47595.00 | 1.27     | Gold\$        | 1819.60  | 0.28     | EUR German Industrial Production m/m   |
| Silver      | 71681.00 | 2.96     | Silver\$      | 27.48    | 0.77     | EUR German Trade Balance               |
| Crudeoil    | 4790.00  | -0.75    | Crudeoil\$    | 64.71    | -1.40    | EUR French Industrial Production m/m   |
| Natural Gas | 215.60   | -1.19    | Natural Gas\$ | 2.93     | -0.34    | EUR French Prelim Private Payrolls q/q |
| Copper      | 770.65   | 1.25     | Lme Copper    | 10209.00 | 0.92     | EUR French Trade Balance               |
| Zinc        | 232.50   | 0.02     | Lme Zinc      | 2975.50  | 0.98     | EUR Italian Retail Sales m/m           |
| Nickel      | 1327.40  | -0.39    | Lme Nickel    | 17900.00 | -0.03    | EUR ECB President Lagarde Speaks       |
| Aluminium   | 199.80   | 1.73     | Lme Lead      | 2218.50  | -0.09    | USD Average Hourly Earnings m/m        |
| Lead        | 175.50   | 0.69     | Lme Aluminium | 2543.00  | 1.31     | USD Non-Farm Employment Change         |



MCX MARKET SYNOPSIS

| Contract      | Open    | High    | Low     | Close   | Rs Chg | % Chg | Volume | OI   | % Chg  |
|---------------|---------|---------|---------|---------|--------|-------|--------|------|--------|
| Copper May    | 762.25  | 771.35  | 762.25  | 770.65  | 9.55   | 1.25  | 14333  | 4665 | 16.02  |
| Copper Jun    | 766.10  | 773.60  | 765.60  | 773.30  | 9.30   | 1.22  | 322    | 329  | 19.20  |
| Zinc May      | 231.05  | 233.35  | 230.45  | 232.50  | 0.05   | 0.02  | 9268   | 1898 | -18.40 |
| Zinc Jun      | 231.60  | 233.50  | 231.40  | 232.95  | 0.15   | 0.06  | 135    | 158  | 27.42  |
| Nickel May    | 1322.50 | 1337.80 | 1314.60 | 1327.40 | -5.20  | -0.39 | 12329  | 1545 | -12.37 |
| Nickel Jun    | 1324.70 | 1342.40 | 1324.00 | 1330.90 | -7.10  | -0.53 | 163    | 58   | 34.88  |
| Aluminium May | 196.35  | 200.00  | 196.35  | 199.80  | 3.40   | 1.73  | 4963   | 1923 | 6.30   |
| Aluminium Jun | 196.45  | 199.90  | 196.45  | 199.75  | 3.30   | 1.68  | 243    | 231  | 20.94  |
| Lead May      | 173.55  | 175.90  | 173.50  | 175.50  | 1.20   | 0.69  | 3978   | 1179 | 30.13  |
| Lead Jun      | 175.10  | 176.30  | 175.00  | 176.00  | 1.40   | 0.80  | 59     | 63   | 110.00 |

MCX PIVOT

| Contract      | Sup - 3 | Sup - 2 | Sup - 1 | Pivot   | Res - 1 | Res - 2 | Res - 3 | OI Status        |
|---------------|---------|---------|---------|---------|---------|---------|---------|------------------|
| Copper May    | 755.80  | 759.00  | 764.90  | 768.10  | 774.00  | 777.20  | 783.10  | Fresh Buying     |
| Zinc May      | 228.00  | 229.20  | 230.90  | 232.10  | 233.80  | 235.00  | 236.70  | Short Covering   |
| Nickel May    | 1292.20 | 1303.40 | 1315.40 | 1326.60 | 1338.60 | 1349.80 | 1361.80 | Long Liquidation |
| Aluminium May | 193.70  | 195.00  | 197.40  | 198.70  | 201.10  | 202.40  | 204.80  | Fresh Buying     |
| Lead May      | 171.70  | 172.60  | 174.10  | 175.00  | 176.50  | 177.40  | 178.90  | Fresh Buying     |

INTERNATIONAL MARKET SYNOPSIS

| Commodity     | Open     | High     | Low      | Ltp*     | Rs Chg | % Chg | LME STOCKS    |       |
|---------------|----------|----------|----------|----------|--------|-------|---------------|-------|
| LME Copper    | 9926.00  | 10117.50 | 9892.00  | 10115.50 | 93.50  | 0.92  | LME Copper    | -2025 |
| LME Zinc      | 2933.00  | 2948.00  | 2904.00  | 2946.50  | 29.00  | 0.98  | LME Zinc      | -400  |
| LME Nickel    | 17820.00 | 18035.00 | 17430.00 | 17905.00 | -5.00  | -0.03 | LME Nickel    | -720  |
| LME Lead      | 2168.00  | 2225.00  | 2149.50  | 2220.50  | -2.00  | -0.09 | LME Lead      | -875  |
| LME Aluminium | 2445.00  | 2516.00  | 2440.00  | 2510.00  | 33.00  | 1.31  | LME Aluminium | -8375 |

INTERNATIONAL PIVOT

| Commodity     | Sup - 3 | Sup - 2 | Sup - 1 | Pivot | Res - 1 | Res - 2 | Res - 3 |
|---------------|---------|---------|---------|-------|---------|---------|---------|
| LME Copper    | 9740    | 9816    | 9966    | 10042 | 10191   | 10267   | 10417   |
| LME Zinc      | 2874    | 2889    | 2918    | 2933  | 2962    | 2977    | 3006    |
| LME Nickel    | 16940   | 17185   | 17545   | 17790 | 18150   | 18395   | 18755   |
| LME Lead      | 2096    | 2123    | 2172    | 2198  | 2247    | 2274    | 2323    |
| LME Aluminium | 2385    | 2413    | 2461    | 2489  | 2537    | 2565    | 2613    |

COPPER

Copper trading range for the day is 759-777.2.

Copper gained as investors switched to cyclicals amid hopes of a strong economic recovery

Global copper smelting rebounded in April from the lowest levels in at least five years in the previous month as a price rally spurred more activity

China's net imports of refined copper surged by 38% to 4.4 million tonnes last year, breaking all historical records.

Warehouse stock for Copper at LME was at 130750mt that is down by -2025mt.



ZINC

Zinc trading range for the day is 229.2-235.

Zinc prices remained supported after positive economic data including US April private sector employment and Chinese manufacturing PMI that stood at 51.1 in April.

However the resumption across domestic zinc mines and inflow of imported zinc concentrate further eased tight supply

Global supply of refined zinc is expected to exceed demand by 353,000 tonnes in 2021, the International Lead and Zinc Study Group (ILZSG) said

Warehouse stock for Zinc at LME was at 291025mt that is down by -400mt.



NICKEL

Nickel trading range for the day is 1303.4-1349.8.

NiCkel dropped on profit booking after seen supported as prospects for rebounding growth as the global vaccine rollout gathers pace

Indonesian state miner Aneka Tambang (Antam) said its nickel ore output rose more than four-fold in the first three months of 2021

US core PCE inflation hit its highest in 13 months and ISM manufacturing PMI continued to rise rapidly in April.

Warehouse stock for Nickel at LME was at 260508mt that is down by -720mt.



ALUMINIUM

Aluminium trading range for the day is 195-202.4.

Aluminium prices rose as a fall out between China and Australia raised concerns of supply shortages from one of the world's biggest producers.

China's state economic planner said it has "indefinitely" suspended all activities under the China-Australia Strategic Economic Dialogue

Cash aluminium on the LME has flipped to a \$5 premium suggesting there is less quickly deliverable metal available.

Warehouse stock for Aluminium at LME was at 1802175mt that is down by -8375mt.



SPREAD SYNOPSIS

|       |        | Copper |      |      |
|-------|--------|--------|------|------|
| Month | Rate   | May    | Jun  | Jul  |
| May   | 770.65 |        | 2.65 | 5.30 |
| Jun   | 773.30 |        |      | 2.65 |
| Jul   | 775.95 |        |      |      |

|       |        | Zinc |      |      |
|-------|--------|------|------|------|
| Month | Rate   | May  | Jun  | Jul  |
| May   | 232.50 |      | 0.45 | 0.90 |
| Jun   | 232.95 |      |      | 0.45 |
| Jul   | 233.40 |      |      |      |

|           |  | Spread History |      |       |
|-----------|--|----------------|------|-------|
| Commodity |  | Max            | Min  | Avg   |
| Copper    |  | -19.90         | 5.35 | 64.00 |
| Zinc      |  | -7.25          | 0.34 | 2.40  |
| Nickel    |  | -7.25          | 0.34 | 2.40  |
| Aluminium |  | -7.10          | 0.97 | 3.10  |
| Lead      |  | -22.20         | 3.76 | 13.20 |

|       |         | Nickel |      |      |
|-------|---------|--------|------|------|
| Month | Rate    | May    | Jun  | Jul  |
| May   | 1327.40 |        | 3.50 | 7.00 |
| Jun   | 1330.90 |        |      | 3.50 |
| Jul   | 1334.40 |        |      |      |

|       |        | Aluminium |       |       |
|-------|--------|-----------|-------|-------|
| Month | Rate   | May       | Jun   | Jul   |
| May   | 199.80 |           | -0.05 | -0.10 |
| Jun   | 199.75 |           |       | -0.05 |
| Jul   | 199.70 |           |       |       |

| COPPER PRICE MOVEMENT SINCE 2011 |        |        |        |        |        |        |        |        |        |        |        |        |         |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Year                             | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | Growth  |
| 2011                             | 451.90 | 445.75 | 425.30 | 415.90 | 417.35 | 421.10 | 436.85 | 427.10 | 349.80 | 392.95 | 409.75 | 406.00 | -33.50  |
|                                  | 2.82   | -1.36  | -4.59  | -2.21  | 0.35   | 0.90   | 3.74   | -2.23  | -18.10 | 12.34  | 4.28   | -0.92  | -7.62   |
| 2012                             | 417.15 | 417.70 | 431.65 | 443.90 | 420.25 | 429.40 | 422.55 | 424.30 | 441.05 | 419.70 | 436.30 | 443.75 | 37.75   |
|                                  | 2.75   | 0.13   | 3.34   | 2.84   | -5.33  | 2.18   | -1.60  | 0.41   | 3.95   | -4.84  | 3.96   | 1.71   | 9.30    |
| 2013                             | 440.05 | 418.20 | 410.20 | 381.00 | 413.05 | 406.60 | 421.55 | 486.95 | 466.40 | 452.50 | 444.40 | 468.55 | 24.80   |
|                                  | -0.83  | -4.97  | -1.91  | -7.12  | 8.41   | -1.56  | 3.68   | 15.51  | -4.22  | -2.98  | -1.79  | 5.43   | 5.59    |
| 2014                             | 444.95 | 443.20 | 404.15 | 403.00 | 410.80 | 422.35 | 436.10 | 417.95 | 416.00 | 414.70 | 390.75 | 399.10 | -69.45  |
|                                  | -5.04  | -0.39  | -8.81  | -0.28  | 1.94   | 2.81   | 3.26   | -4.16  | -0.47  | -0.31  | -5.78  | 2.14   | -14.82  |
| 2015                             | 342.85 | 371.80 | 378.45 | 404.60 | 386.65 | 368.75 | 335.40 | 341.75 | 342.70 | 336.55 | 301.15 | 315.50 | -83.60  |
|                                  | -14.09 | 8.44   | 1.79   | 6.91   | -4.44  | -4.63  | -9.04  | 1.89   | 0.28   | -1.79  | -10.52 | 4.77   | -20.95  |
| 2016                             | 311.60 | 322.00 | 321.25 | 334.20 | 312.50 | 327.15 | 329.70 | 305.60 | 328.55 | 326.05 | 396.05 | 372.90 | 57.40   |
|                                  | -1.24  | 3.34   | -0.23  | 4.03   | -6.49  | 4.69   | 0.78   | -7.31  | 7.51   | -0.76  | 21.47  | -5.85  | 18.19   |
| 2017                             | 406.10 | 397.85 | 380.75 | 367.60 | 368.75 | 385.20 | 410.65 | 434.55 | 427.95 | 444.70 | 431.40 | 466.00 | 93.10   |
|                                  | 8.90   | -2.03  | -4.30  | -3.45  | 0.31   | 4.46   | 6.61   | 5.82   | -1.52  | 3.91   | -2.99  | 8.02   | 24.97   |
| 2018                             | 450.90 | 446.00 | 436.80 | 449.40 | 457.05 | 446.15 | 430.15 | 414.00 | 452.95 | 435.70 | 433.10 | 407.75 | -58.25  |
|                                  | -3.24  | -1.09  | -2.06  | 2.88   | 1.70   | -2.38  | -3.59  | -3.75  | 9.41   | -3.81  | -0.60  | -5.85  | -12.50  |
| 2019                             | 437.60 | 464.70 | 451.05 | 450.30 | 404.50 | 411.05 | 444.15 | 443.95 | 438.05 | 437.95 | 432.60 | 441.25 | 33.50   |
|                                  | 7.32   | 6.19   | -2.94  | -0.17  | -10.17 | 1.62   | 8.05   | -0.05  | -1.33  | -0.02  | -1.22  | 2.00   | 8.22    |
| 2020                             | 427.25 | 421.80 | 376.80 | 403.45 | 416.20 | 464.70 | 500.75 | 527.30 | 525.20 | 526.40 | 582.30 | 594.70 | 153.45  |
|                                  | -3.17  | -1.28  | -10.67 | 7.07   | 3.16   | 11.65  | 7.76   | 5.30   | -0.40  | 0.23   | 10.62  | 2.13   | 34.78   |
| 2021                             | 596.40 | 702.95 | 667.95 | 754.10 |        |        |        |        |        |        |        |        | 159.40  |
|                                  | 0.29   | 17.87  | -4.98  | 12.90  |        |        |        |        |        |        |        |        | 26.80   |
| Average                          | -1.25  | 2.69   | -2.53  | 1.37   | -1.17  | 1.29   | 2.89   | 1.32   | -0.10  | 0.35   | 2.05   | 2.44   | Average |

## ZINC PRICE MOVEMENT SINCE 2011

| Year    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | Growth  |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 2011    | 107.25 | 111.90 | 103.50 | 101.20 | 101.30 | 103.50 | 109.95 | 104.85 | 93.20  | 93.75  | 101.35 | 98.45  | -10.55  |
|         | -1.61  | 4.34   | -7.51  | -2.22  | 0.10   | 2.17   | 6.23   | -4.64  | -11.11 | 0.59   | 8.11   | -2.86  | -9.68   |
| 2012    | 105.60 | 104.00 | 102.85 | 107.10 | 107.15 | 103.95 | 103.20 | 100.60 | 110.45 | 99.30  | 110.55 | 111.45 | 13.00   |
|         | 7.26   | -1.52  | -1.11  | 4.13   | 0.05   | -2.99  | -0.72  | -2.52  | 9.79   | -10.10 | 11.33  | 0.81   | 13.20   |
| 2013    | 113.95 | 111.05 | 102.90 | 110.50 | 106.30 | 109.70 | 109.55 | 128.25 | 117.80 | 118.25 | 116.00 | 129.05 | 17.60   |
|         | 2.24   | -2.54  | -7.34  | 7.39   | -3.80  | 3.20   | -0.14  | 17.07  | -8.15  | 0.38   | -1.90  | 11.25  | 15.79   |
| 2014    | 122.80 | 130.95 | 119.05 | 123.95 | 122.40 | 132.45 | 144.55 | 142.90 | 141.10 | 143.40 | 138.00 | 137.20 | 8.15    |
|         | -4.84  | 6.64   | -9.09  | 4.12   | -1.25  | 8.21   | 9.14   | -1.14  | -1.26  | 1.63   | -3.77  | -0.58  | 6.32    |
| 2015    | 130.40 | 127.70 | 129.90 | 149.75 | 141.05 | 127.10 | 122.85 | 121.30 | 108.90 | 109.10 | 103.20 | 106.15 | -31.05  |
|         | -4.96  | -2.07  | 1.72   | 15.28  | -5.81  | -9.89  | -3.34  | -1.26  | -10.22 | 0.18   | -5.41  | 2.86   | -22.63  |
| 2016    | 109.25 | 122.45 | 118.40 | 129.20 | 129.30 | 142.15 | 148.80 | 155.90 | 158.10 | 163.90 | 185.55 | 173.80 | 67.65   |
|         | 2.92   | 12.08  | -3.31  | 9.12   | 0.08   | 9.94   | 4.68   | 4.77   | 1.41   | 3.67   | 13.21  | -6.33  | 63.73   |
| 2017    | 193.10 | 187.70 | 180.40 | 169.45 | 165.95 | 178.25 | 179.50 | 200.95 | 210.20 | 215.05 | 205.95 | 207.60 | 33.80   |
|         | 11.10  | -2.80  | -3.89  | -6.07  | -2.07  | 7.41   | 0.70   | 11.95  | 4.60   | 2.31   | -4.23  | 0.80   | 19.45   |
| 2018    | 228.60 | 227.75 | 214.10 | 211.75 | 209.05 | 202.15 | 180.40 | 176.10 | 186.65 | 192.60 | 180.20 | 171.95 | -35.65  |
|         | 10.12  | -0.37  | -5.99  | -1.10  | -1.28  | -3.30  | -10.76 | -2.38  | 5.99   | 3.19   | -6.44  | -4.58  | -17.17  |
| 2019    | 195.15 | 197.80 | 221.35 | 223.20 | 203.00 | 200.50 | 192.25 | 185.30 | 185.55 | 187.85 | 185.05 | 179.00 | 7.05    |
|         | 13.49  | 1.36   | 11.91  | 0.84   | -9.05  | -1.23  | -4.11  | -3.62  | 0.13   | 1.24   | -1.49  | -3.27  | 4.10    |
| 2020    | 174.45 | 154.85 | 145.50 | 150.60 | 159.00 | 163.50 | 184.00 | 196.05 | 190.80 | 201.80 | 220.20 | 214.40 | 35.40   |
|         | -2.54  | -11.24 | -6.04  | 3.51   | 5.58   | 2.83   | 12.54  | 6.55   | -2.68  | 5.77   | 9.12   | -2.63  | 11.81   |
| 2021    | 205.90 | 219.55 | 220.00 | 232.45 |        |        |        |        |        |        |        |        | 18.05   |
|         | -3.96  | 6.63   | 0.20   | 5.66   |        |        |        |        |        |        |        |        | 11.81   |
| Average | 0.89   | 1.16   | -2.09  | 2.90   | -2.59  | 0.61   | 2.69   | 2.59   | -0.91  | 1.82   | 0.66   | 0.77   | Average |

## NICKEL PRICE MOVEMENT SINCE 2011

| Year    | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP     | OCT     | NOV     | DEC     | Growth  |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2011    | 1243.90 | 1294.00 | 1165.40 | 1202.40 | 1045.80 | 1037.70 | 1098.80 | 1022.90 | 898.80  | 940.90  | 869.60  | 992.20  | -119.60 |
|         | 11.88   | 4.03    | -9.94   | 3.17    | -13.02  | -0.77   | 5.89    | -6.91   | -12.13  | 4.68    | -7.58   | 14.10   | -10.76  |
| 2012    | 1050.20 | 974.30  | 927.40  | 936.60  | 923.80  | 935.40  | 892.80  | 884.40  | 978.50  | 878.50  | 931.70  | 935.70  | -56.50  |
|         | 5.85    | -7.23   | -4.81   | 0.99    | -1.37   | 1.26    | -4.55   | -0.94   | 10.64   | -10.22  | 6.06    | 0.43    | -5.69   |
| 2013    | 979.10  | 895.70  | 921.50  | 824.00  | 826.70  | 823.90  | 829.20  | 928.20  | 869.80  | 892.20  | 836.90  | 864.50  | -71.20  |
|         | 4.64    | -8.52   | 2.88    | -10.58  | 0.33    | -0.34   | 0.64    | 11.94   | -6.29   | 2.58    | -6.20   | 3.30    | -7.61   |
| 2014    | 855.80  | 902.80  | 945.50  | 1097.40 | 1139.60 | 1124.30 | 1130.40 | 1140.30 | 1016.80 | 971.00  | 996.80  | 945.70  | 81.20   |
|         | -1.01   | 5.49    | 4.73    | 16.07   | 3.85    | -1.34   | 0.54    | 0.88    | -10.83  | -4.50   | 2.66    | -5.13   | 9.49    |
| 2015    | 922.90  | 874.90  | 779.70  | 881.00  | 808.00  | 744.50  | 698.50  | 668.10  | 661.90  | 660.90  | 583.50  | 582.00  | -363.70 |
|         | -2.41   | -5.20   | -10.88  | 12.99   | -8.29   | -7.86   | -6.18   | -4.35   | -0.93   | -0.15   | -11.71  | -0.26   | -38.46  |
| 2016    | 579.80  | 577.60  | 549.10  | 629.10  | 568.50  | 636.40  | 700.00  | 651.20  | 703.30  | 696.30  | 751.20  | 706.00  | 169.20  |
|         | -0.38   | -0.38   | -4.93   | 14.57   | -9.63   | 11.94   | 9.99    | -6.97   | 8.00    | -1.00   | 7.88    | -6.02   | 29.07   |
| 2017    | 670.30  | 725.30  | 640.10  | 608.90  | 568.50  | 600.60  | 655.70  | 743.70  | 692.60  | 766.30  | 727.50  | 783.40  | 77.40   |
|         | -5.06   | 8.21    | -11.75  | -4.87   | -6.63   | 5.65    | 9.17    | 13.42   | -6.87   | 10.64   | -5.06   | 7.68    | 10.96   |
| 2018    | 863.10  | 898.30  | 840.50  | 926.40  | 1024.40 | 1022.30 | 944.00  | 909.30  | 905.00  | 860.00  | 774.80  | 741.60  | -41.80  |
|         | 10.17   | 4.08    | -6.43   | 10.22   | 10.58   | -0.20   | -7.66   | -3.68   | -0.47   | -4.97   | -9.91   | -4.28   | -5.34   |
| 2019    | 884.90  | 931.10  | 904.00  | 854.60  | 876.50  | 906.00  | 1013.50 | 1245.40 | 1216.80 | 1200.40 | 1005.50 | 1029.20 | 287.60  |
|         | 19.32   | 5.22    | -2.91   | -5.46   | 2.56    | 3.37    | 11.87   | 22.88   | -2.30   | -1.35   | -16.24  | 2.36    | 38.78   |
| 2020    | 943.80  | 901.00  | 860.10  | 922.60  | 940.40  | 975.00  | 1041.90 | 1135.70 | 1065.30 | 1142.70 | 1206.70 | 1212.20 | 183.00  |
|         | -8.30   | -4.53   | -4.54   | 7.27    | 1.93    | 3.68    | 6.86    | 9.00    | -6.20   | 7.27    | 5.60    | 0.46    | 17.78   |
| 2021    | 1286.90 | 1367.70 | 1184.10 | 1316.90 |         |         |         |         |         |         |         |         | 104.70  |
|         | 6.16    | 6.28    | -13.42  | 11.22   |         |         |         |         |         |         |         |         | 8.64    |
| Average | 3.37    | 1.29    | -2.98   | 4.20    | -3.04   | 0.58    | 3.21    | 3.12    | -1.76   | 0.18    | -3.13   | 1.80    | Average |

## ALUMINIUM PRICE MOVEMENT SINCE 2011

| Year    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | Growth  |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 2011    | 114.05 | 114.35 | 116.05 | 122.55 | 119.25 | 112.20 | 115.55 | 112.60 | 107.95 | 106.85 | 103.10 | 106.95 | -3.20   |
|         | 3.54   | 0.26   | 1.49   | 5.60   | -2.69  | -5.91  | 2.99   | -2.55  | -4.13  | -1.02  | -3.51  | 3.73   | -2.91   |
| 2012    | 112.15 | 112.65 | 108.35 | 108.05 | 111.35 | 105.65 | 103.95 | 103.00 | 110.95 | 101.85 | 113.35 | 111.75 | 4.80    |
|         | 4.86   | 0.45   | -3.82  | -0.28  | 3.05   | -5.12  | -1.61  | -0.91  | 7.72   | -8.20  | 11.29  | -1.41  | 4.49    |
| 2013    | 110.50 | 105.40 | 103.65 | 100.10 | 105.95 | 105.05 | 105.85 | 122.10 | 113.15 | 112.55 | 106.75 | 109.20 | -2.55   |
|         | -1.12  | -4.62  | -1.66  | -3.42  | 5.84   | -0.85  | 0.76   | 15.35  | -7.33  | -0.53  | -5.15  | 2.30   | -2.28   |
| 2014    | 103.90 | 107.00 | 104.00 | 106.75 | 107.65 | 111.20 | 121.45 | 126.70 | 119.20 | 126.85 | 128.35 | 116.00 | 6.80    |
|         | -4.85  | 2.98   | -2.80  | 2.64   | 0.84   | 3.30   | 9.22   | 4.32   | -5.92  | 6.42   | 1.18   | -9.62  | 6.23    |
| 2015    | 113.45 | 112.40 | 111.95 | 121.40 | 108.75 | 104.95 | 102.00 | 107.15 | 102.60 | 94.40  | 96.35  | 100.15 | -15.85  |
|         | -2.20  | -0.93  | -0.40  | 8.44   | -10.42 | -3.49  | -2.81  | 5.05   | -4.25  | -7.99  | 2.07   | 3.94   | -13.66  |
| 2016    | 103.80 | 111.25 | 98.90  | 111.25 | 104.00 | 110.55 | 108.30 | 107.20 | 110.55 | 115.95 | 118.00 | 117.20 | 17.05   |
|         | 3.64   | 7.18   | -11.10 | 12.49  | -6.52  | 6.30   | -2.04  | -1.02  | 3.12   | 4.88   | 1.77   | -0.68  | 17.02   |
| 2017    | 123.40 | 126.45 | 126.20 | 123.90 | 123.90 | 123.55 | 121.95 | 135.30 | 137.90 | 138.60 | 131.00 | 143.30 | 26.10   |
|         | 5.29   | 2.47   | -0.20  | -1.82  | 0.00   | -0.28  | -1.30  | 10.95  | 1.92   | 0.51   | -5.48  | 9.39   | 22.27   |
| 2018    | 141.65 | 140.50 | 130.65 | 148.50 | 154.15 | 149.70 | 141.40 | 150.10 | 145.90 | 143.95 | 137.20 | 128.15 | -15.15  |
|         | -1.15  | -0.81  | -7.01  | 13.66  | 3.80   | -2.89  | -5.54  | 6.15   | -2.80  | -1.34  | -4.69  | -6.60  | -10.57  |
| 2019    | 136.00 | 151.10 | 149.15 | 146.20 | 145.35 | 143.20 | 140.35 | 138.70 | 134.60 | 132.00 | 133.55 | 137.25 | 9.10    |
|         | 6.13   | 11.10  | -1.29  | -1.98  | -0.58  | -1.48  | -1.99  | -1.18  | -2.96  | -1.93  | 1.17   | 2.77   | 7.10    |
| 2020    | 139.10 | 136.70 | 134.45 | 131.00 | 131.70 | 137.95 | 140.90 | 146.15 | 143.80 | 152.95 | 167.05 | 160.95 | 23.70   |
|         | 1.35   | -1.73  | -1.65  | -2.57  | 0.53   | 4.75   | 2.14   | 3.73   | -1.61  | 6.36   | 9.22   | -3.65  | 17.27   |
| 2021    | 162.25 | 173.50 | 176.65 | 193.70 |        |        |        |        |        |        |        |        | 32.75   |
|         | 0.81   | 6.93   | 1.82   | 9.65   |        |        |        |        |        |        |        |        | 20.35   |
| Average | 0.81   | 2.06   | -1.72  | 3.02   | -0.79  | -0.99  | 1.00   | 3.31   | -0.75  | -0.12  | 0.53   | 0.61   | Average |



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