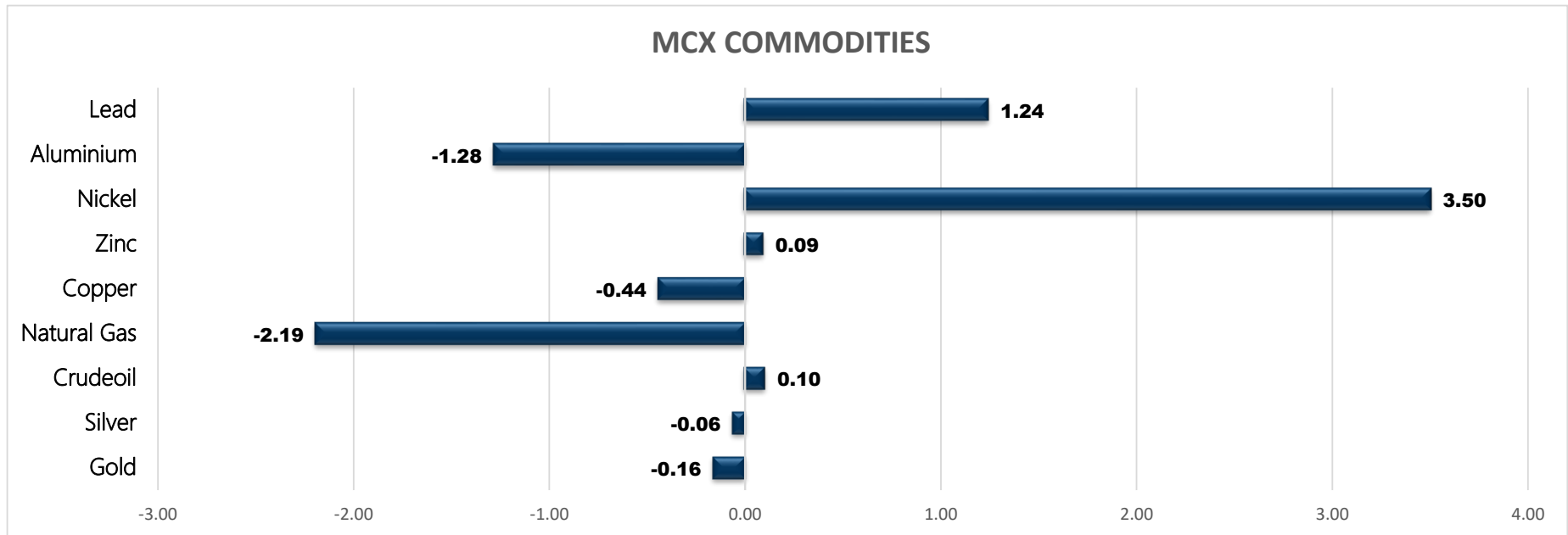




# Energy

- Crude Oil
- Natural Gas

| Commodity   | Closed   | % Change | Commodity     | Ltp*     | % Change | Economical Data |                              |
|-------------|----------|----------|---------------|----------|----------|-----------------|------------------------------|
| Gold        | 49302.00 | -0.16    | Gold\$        | 1675.67  | 0.00     | EUR             | German PPI m/m               |
| Silver      | 56684.00 | -0.06    | Silver\$      | 19.48    | -0.29    | EUR             | Current Account              |
| Crudeoil    | 6817.00  | 0.10     | Crudeoil\$    | 85.36    | 0.71     | USD             | Building Permits             |
| Natural Gas | 617.10   | -2.19    | Natural Gas\$ | 7.75     | -0.15    | USD             | Housing Starts               |
| Copper      | 648.45   | -0.44    | Lme Copper    | 7811.00  | 0.50     | EUR             | ECB President Lagarde Speaks |
| Zinc        | 282.05   | 0.09     | Lme Zinc      | 3169.00  | 0.22     |                 |                              |
| Nickel      | 1975.00  | 3.50     | Lme Nickel    | 24670.00 | 0.00     |                 |                              |
| Aluminium   | 196.55   | -1.28    | Lme Lead      | 1888.50  | 0.35     |                 |                              |
| Lead        | 179.70   | 1.24     | Lme Aluminium | 2266.00  | 0.76     |                 |                              |



MCX MARKET SYNOPSIS

| Contract      | Open    | High    | Low     | Close   | Rs Chg | % Chg | Volume | OI   | OI % Chg |
|---------------|---------|---------|---------|---------|--------|-------|--------|------|----------|
| Crude Oil Oct | 6806.00 | 6835.00 | 6557.00 | 6817.00 | 7.00   | 0.10  | 37696  | 6290 | 8.67     |
| Crude Oil Nov | 6816.00 | 6825.00 | 6556.00 | 6803.00 | -9.00  | -0.13 | 1251   | 523  | 29.78    |
| Crude Oil Dec | 0.00    | 0.00    | 0.00    | 6788.00 | -9.00  | -0.13 | 0      | 0    | 0.00     |

| Contract        | Open   | High   | Low    | Close  | Rs Chg | % Chg | Volume | OI   | OI % Chg |
|-----------------|--------|--------|--------|--------|--------|-------|--------|------|----------|
| Natural Gas Sep | 620.10 | 632.50 | 593.10 | 617.10 | -13.80 | -2.19 | 68616  | 5303 | -7.89    |
| Natural Gas Oct | 611.70 | 637.00 | 598.20 | 622.10 | -13.60 | -2.14 | 15013  | 1968 | 28.04    |
| Natural Gas Nov | 625.80 | 647.30 | 611.30 | 635.10 | -13.10 | -2.02 | 256    | 398  | 10.56    |

MCX PIVOT

| Contract        | Sup - 3 | Sup - 2 | Sup - 1 | Pivot   | Res - 1 | Res - 2 | Res - 3 | OI Status        |
|-----------------|---------|---------|---------|---------|---------|---------|---------|------------------|
| Crude Oil Oct   | 6359.00 | 6458.00 | 6637.00 | 6736.00 | 6915.00 | 7014.00 | 7193.00 | Fresh Buying     |
| Natural Gas Sep | 556.50  | 574.80  | 595.90  | 614.20  | 635.30  | 653.60  | 674.70  | Long Liquidation |

SPREAD SYNOPSIS

| Crudeoil |         |     |        |        |
|----------|---------|-----|--------|--------|
| Month    | Rate    | Oct | Nov    | Dec    |
| Oct      | 6817.00 |     | -14.00 | -29.00 |
| Nov      | 6803.00 |     |        | -15.00 |
| Dec      | 6788.00 |     |        |        |

| Natural Gas |        |     |      |       |
|-------------|--------|-----|------|-------|
| Month       | Rate   | Sep | Oct  | Nov   |
| Sep         | 617.10 |     | 5.00 | 18.00 |
| Oct         | 622.10 |     |      | 13.00 |
| Nov         | 635.10 |     |      |       |

| Spread History |       |         |        |
|----------------|-------|---------|--------|
| Commodity      | Max   | Min     | Avg    |
| Crudeoil       | 8.00  | -296.00 | -82.00 |
| Natural Gas    | 20.60 | -35.60  | 1.00   |

INTERNATIONAL MARKET SYNOPSIS

| Crudeoil Last 4 Day Movement |       |       |       |       |      |        | Pivot   |         |         |
|------------------------------|-------|-------|-------|-------|------|--------|---------|---------|---------|
| Date                         | Open  | High  | Low   | Close | Chg  | % Chg  | Res - 1 | Res - 2 | Res - 3 |
| 19-Sep-22                    | 84.81 | 85.88 | 81.73 | 85.36 | 0.6  | 0.71%  | 86.92   | 88.47   | 91.07   |
| 16-Sep-22                    | 84.66 | 86.18 | 83.86 | 84.76 | 0.11 | 0.13%  | Sup - 1 | Sup - 2 | Sup - 3 |
| 15-Sep-22                    | 88.7  | 88.7  | 84.09 | 84.65 | -3.4 | -3.86% | 82.77   | 80.17   | 78.62   |
| 14-Sep-22                    | 87.24 | 89.63 | 85.75 | 88.05 | 1.16 | 1.34%  |         |         |         |

| NaturalGas Last 4 Day Movement |       |       |       |       |       |        | Pivot   |         |         |
|--------------------------------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| Date                           | Open  | High  | Low   | Close | Chg   | % Chg  | Res - 1 | Res - 2 | Res - 3 |
| 19-Sep-22                      | 7.737 | 7.923 | 7.404 | 7.752 | -0.01 | -0.15% | 7.982   | 8.212   | 8.501   |
| 16-Sep-22                      | 8.298 | 8.319 | 7.717 | 7.764 | -0.56 | -6.73% | Sup - 1 | Sup - 2 | Sup - 3 |
| 15-Sep-22                      | 9.073 | 9.117 | 8.172 | 8.324 | -0.79 | -8.67% | 7.463   | 7.174   | 6.944   |
| 14-Sep-22                      | 8.391 | 9.238 | 8.325 | 9.114 | 0.83  | 10.02% |         |         |         |

CRUDEOIL

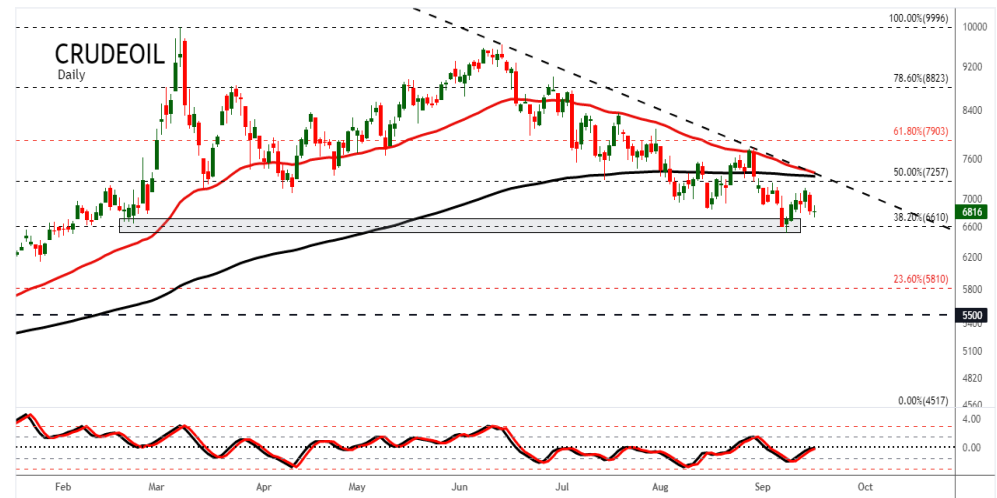
Crude oil trading range for the day is 6458-7014.

Crude oil edges up as supply woe outweighs demand and rate hike worries

Oil also came under pressure from hopes of an easing of Europe's gas supply crisis.

OPEC+ fell 3.58 mln b/d short of August quota

Saudi Arabia's crude oil exports rise to 7.38 mln bpd in July



NATURAL GAS

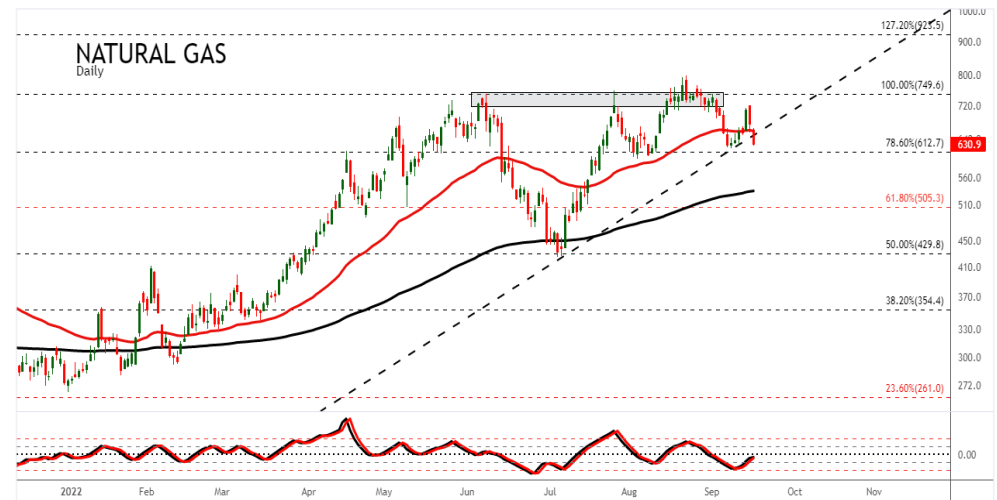
Natural gas trading range for the day is 574.8-653.6.

Natural gas extended their decline as US railroads and labor unions reached an agreement to avert a rail shutdown.

Data from the EIA pointed to 77 billion cubic feet of gas being added to storage by utilities in the week

Domestic supply is set to rise as the Cove Point LNG plant in Maryland is set to shut down for maintenance in October

U.S. gas demand has already been reduced for months by the ongoing outage at the Freeport LNG export plant in Texas



## CRUDE OIL PRICE MOVEMENT SINCE 2014

|         | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL    | AUG   | SEP   | OCT    | NOV    | DEC    | Growth   |
|---------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--------|--------|--------|----------|
| 2014    | 6169   | 6371   | 6119   | 6015   | 6106   | 6337  | 6006   | 5831  | 5673  | 4931   | 4210   | 3369   | -2753.00 |
|         | 0.77   | 3.27   | -3.96  | -1.70  | 1.51   | 3.78  | -5.22  | -2.91 | -2.71 | -13.08 | -14.62 | -19.98 | -44.97   |
| 2015    | 2855   | 3064   | 3025   | 3790   | 3869   | 3776  | 3038   | 3230  | 2979  | 3068   | 2798   | 2493   | -876.00  |
|         | -15.26 | 7.32   | -1.27  | 25.29  | 2.08   | -2.40 | -19.54 | 6.32  | -7.77 | 2.99   | -8.80  | -10.90 | -26.00   |
| 2016    | 2286   | 2321   | 2572   | 3035   | 3333   | 3304  | 2782   | 3003  | 3212  | 3153   | 3377   | 3541   | 1048.00  |
|         | -8.30  | 1.53   | 10.81  | 18.00  | 9.82   | -0.87 | -15.80 | 7.94  | 6.96  | -1.84  | 7.10   | 4.86   | 42.04    |
| 2017    | 3614   | 3566   | 3284   | 3174   | 3127   | 2968  | 3183   | 3038  | 3373  | 3528   | 3687   | 3850   | 309.00   |
|         | 2.06   | -1.33  | -7.91  | -3.35  | -1.48  | -5.08 | 7.24   | -4.56 | 11.03 | 4.60   | 4.51   | 4.42   | 8.73     |
| 2018    | 4112   | 4093   | 4234   | 4583   | 4517   | 5086  | 4734   | 4959  | 5335  | 4892   | 3576   | 3170   | -680.00  |
|         | 6.81   | -0.46  | 3.44   | 8.24   | -1.44  | 12.60 | -6.92  | 4.75  | 7.58  | -8.30  | -26.90 | -11.35 | -17.66   |
| 2019    | 3869   | 4090   | 4185   | 4467   | 3775   | 4095  | 4032   | 3958  | 3880  | 3853   | 3980   | 4386   | 1216.00  |
|         | 22.05  | 5.71   | 2.32   | 6.74   | -15.49 | 8.48  | -1.54  | -1.84 | -1.97 | -0.70  | 3.30   | 10.20  | 38.36    |
| 2020    | 3683   | 3263   | 1689   | 1315   | 2564   | 3015  | 3023   | 3145  | 2934  | 2642   | 3326   | 3524   | -862.00  |
|         | -16.03 | -11.40 | -48.24 | -22.14 | 94.98  | 17.59 | 0.27   | 4.04  | -6.71 | -9.95  | 25.89  | 5.95   | -19.65   |
| 2021    | 3820   | 4604   | 4384   | 4723   | 4870   | 5492  | 5517   | 5026  | 5571  | 6264   | 4896   | 5625   | 2101.00  |
|         | 8.40   | 20.52  | -4.78  | 7.73   | 3.11   | 12.77 | 0.46   | -8.90 | 10.84 | 12.44  | -21.84 | 14.89  | 59.62    |
| 2022    | 6561   | 7291   | 7766   | 8117   | 9026   | 8387  | 7842   | 7197  |       |        |        |        | 1572.00  |
|         | 16.64  | 11.13  | 6.51   | 4.52   | 11.20  | -7.08 | -6.50  | -8.22 |       |        |        |        | 27.95    |
| Average | 1.90   | 4.03   | -4.78  | 4.81   | 11.59  | 4.42  | -5.28  | -0.38 | 2.16  | -1.73  | -3.92  | -0.24  | Average  |

## NATURAL GAS PRICE MOVEMENT SINCE 2014


| Year    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | Growth  |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 2014    | 302.60 | 288.10 | 262.50 | 292.60 | 271.20 | 269.90 | 237.60 | 246.90 | 257.80 | 239.90 | 259.30 | 189.10 | -76.40  |
|         | 13.97  | -4.79  | -8.89  | 11.47  | -7.31  | -0.48  | -11.97 | 3.91   | 4.41   | -6.94  | 8.09   | -27.07 | -28.78  |
| 2015    | 168.40 | 167.70 | 167.00 | 175.60 | 169.80 | 179.90 | 174.80 | 178.70 | 166.70 | 152.00 | 150.30 | 155.90 | -33.20  |
|         | -10.95 | -0.42  | -0.42  | 5.15   | -3.30  | 5.95   | -2.83  | 2.23   | -6.72  | -8.82  | -1.12  | 3.73   | -17.56  |
| 2016    | 155.90 | 118.10 | 129.90 | 143.80 | 155.00 | 197.30 | 192.90 | 194.40 | 194.00 | 204.10 | 229.60 | 252.00 | 96.10   |
|         | 0.00   | -24.25 | 9.99   | 10.70  | 7.79   | 27.29  | -2.23  | 0.78   | -0.21  | 5.21   | 12.49  | 9.76   | 61.64   |
| 2017    | 212.80 | 185.00 | 205.80 | 212.10 | 198.60 | 193.80 | 180.00 | 194.80 | 198.40 | 187.80 | 197.10 | 189.70 | -62.30  |
|         | -15.56 | -13.06 | 11.24  | 3.06   | -6.36  | -2.42  | -7.12  | 8.22   | 1.85   | -5.34  | 4.95   | -3.75  | -24.72  |
| 2018    | 190.50 | 175.90 | 179.40 | 183.80 | 199.50 | 200.80 | 192.80 | 206.90 | 218.00 | 241.60 | 317.40 | 212.20 | 22.50   |
|         | 0.42   | -7.66  | 1.99   | 2.45   | 8.54   | 0.65   | -3.98  | 7.31   | 5.36   | 10.83  | 31.37  | -33.14 | 11.86   |
| 2019    | 201.50 | 199.50 | 186.70 | 180.80 | 172.30 | 160.50 | 155.10 | 164.00 | 165.80 | 187.00 | 167.20 | 155.50 | -56.70  |
|         | -5.04  | -0.99  | -6.42  | -3.16  | -4.70  | -6.85  | -3.36  | 5.74   | 1.10   | 12.79  | -10.59 | -7.00  | -26.72  |
| 2020    | 132.40 | 124.30 | 131.50 | 144.20 | 135.90 | 130.40 | 135.60 | 190.70 | 186.50 | 247.70 | 216.70 | 182.10 | 26.60   |
|         | -14.86 | -6.12  | 5.79   | 9.66   | -5.76  | -4.05  | 3.99   | 40.63  | -2.20  | 32.82  | -12.52 | -15.97 | 17.11   |
| 2021    | 191.50 | 205.90 | 191.10 | 218.00 | 221.80 | 272.20 | 290.00 | 318.30 | 428.80 | 409.00 | 347.00 | 276.50 | 94.40   |
|         | 5.16   | 7.52   | -7.19  | 14.08  | 1.74   | 22.72  | 6.54   | 9.76   | 34.72  | -4.62  | -15.16 | -20.32 | 51.84   |
| 2022    | 364.30 | 336.70 | 436.40 | 555.80 | 649.00 | 447.70 | 642.70 | 732.30 |        |        |        |        | 455.80  |
|         | 31.75  | -7.58  | 29.61  | 27.36  | 16.77  | -31.02 | 43.56  | 13.94  |        |        |        |        | 164.85  |
| Average | 0.55   | -6.37  | 3.97   | 8.97   | 0.82   | 1.31   | 2.51   | 10.28  | 4.79   | 4.49   | 2.19   | -11.72 | Average |

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For more details, please **contact:**

 +91 9323406035 / 9619551022

 [info@kediaadvisory.com](mailto:info@kediaadvisory.com)

 [www.kediaadvisory.com](http://www.kediaadvisory.com)

KEDIA STOCKS & COMMODITIES RESEARCH PVT LTD.  
Mumbai, IN.

SEBI REGISTRATION NUMBER - INH000006156

