METALS & ENERGY

October 31, 2023

Market Overview

Currencies	Close	Previous Close	% Change
Dollar Index	106.12	106.56	-0.41%
Euro/USD	1.062	1.057	0.47%
GBP/USD	1.217	1.212	0.40%
USD/YEN	149.10	149.66	-0.37%
USD/INR	83.25	83.25	0.01%

Source: Bloomberg

Global Indices	Close	Previous Close	% Change
DJIA	32,928.96	32,417.59	1.58%
FTSE 100	7,327.39	7,291.28	0.50%
Nikkei	30,696.96	30,991.69	-0.95%
Nifty 50	19,140.90	19,047.25	0.49%
Shanghai	3,021.55	3,017.78	0.12%

Source: Bloomberg

COMEX Gold holds declines amid elevated treasury yields and as the Israel-Hamas war remained contained

WTI Crude attempts a recovery after a sharp 3.5% decline yesterday as supply disruption concerns were limited with ground invasion of Gaza yet to spark a wider regional conflict

LME base metals trade lower as unexpected contraction in China's manufacturing activity last month is adding to uncertainty regarding economic recovery

China's official manufacturing PMI fell to 49.5 in October, down from 50.2 in September, non-manufacturing PMI expanded at a slower pace at 50.6 in October, compared to 51.7 in September

Japan's 10-year bond yield climbed to a new decade-high following a report the central bank will discuss a further tweak to its yield-curve control at a policy meeting ending Tuesday (Bloomberg)

Israeli Prime Minister Benjamin Netanyahu dismissed calls for a cease-fire with the militant group as the army intensifies ground operations in Gaza

Today, traders eye BoJ monetary policy, EU inflation and US Consumer confidence

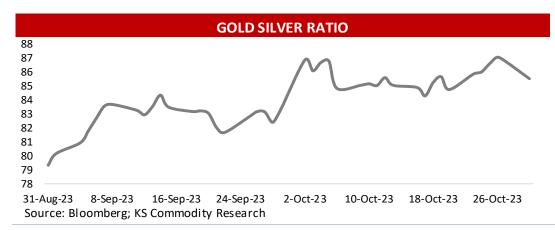
Data and Events due today (Source: Forex factory)

Date	IST	Currency	Data	Forecast	Previous	Importance
31- Oct-2023	Tentative	JPY	BOJ Policy Rate	-0.1%	-0.1%	High
	12:30	EUR	German Retail Sales m/m	0.01	-0.01	Low
	15:30	USD	Core CPI Flash Estimate y/y	0.04	0.05	Medium
	18:30	USD	S&P/CS Composite-20 HPI y/y	0.02	0.00	Medium
	19:15	USD	Chicago PMI	45.00	44.10	Medium
	19:30	USD	CB Consumer Confidence	100.10	103.00	High

Royce Vargheese Joseph Royce.joseph@kotak.com; 022 6621 6230

Gold - COMEX Gold prices pared early gains and closed marginally higher on Monday, as the Israel-Hamas war remains contained. Israel's ground offensive into Gaza will likely have limited long-term impact on gold prices, unless the conflict were to spread into countries like Iran, affecting oil prices. Much of the buying activity in gold prices seen during the past three weeks have been due to speculative safe haven bids. The war premium likely started fading and gold prices will need follow-through from signs of weakness in US economy for a sustained upside. Still, markets remain on the edge as renewed attacks on US army bases in Iraq, by the Iran backed militias once again raised concerns of further escalation. Focus is on the FOMC meeting due tomoorow where the Federal Reserve is widely expected to hold interest rates steady and reiterate the need for rates to stay elevated for longer period of time. A dovish commentary is highly unlikely especially when US economy is resilient to the rate hikes. Still, we expect gold prices to remain cushioned in the near term from uncertain geo-political environment.

Silver - COMEX Silver prices rose by more than 2% yesterday, tracking broad gains in industrial metals and bullions. Data released last week showed that profits earned by China's industrial firms fell by 9% y/y to CNY 5,411.99 billion in the first nine months of 2023, slowing from an 11.7 % slump in the prior period, amid signs of stabilization in the economy and easing margin pressures. However, Silver prices edged lower in early Asian trading following weak PMI figures from China. Bothe the Services and Manufacturing PMI came below forecasts for October, while the latter fell back to a contraction, weighing on the sentiments.



COMEX as on 30-Oct-23									
Gold (US dollar per troy ounce)									
Contract	High	Low	Close	Change	% Change				
Dec	2016.8	1999.7	2005.6	7.1	0.36%				
Feb	2036.9	2020.1	2026.0	7.3	0.36%				
Silver (US do	ollar per tro	y ounce)							
Dec	23.75	23.14	23.40	0.51	2.2%				
Mar	24.08	23.52	23.74	0.51	2.2%				
		MCX as on	30-Oct-23						
Gold (Rupe	es per 10 gra	ms)							
Dec	61396	61110	61280	124	0.2%				
Feb	61752	61475	61613	80	0.1%				
Silver (Rupe	es per kilog	ram)							
Dec	74249	71839	74249	2532	3.5%				
Mar	75487	71001	75487	2246	3.1%				
MCX Bullion	Index (poir	nts)							
Nov	16166	16075	16124	85	0.5%				

Source: MCX; Bloomberg

	Volume and OI Analysis (MCX)									
Gold	Vol (lots)	Change (%)		OI (lots)	Change (%)					
Dec	6403	0.9	Dec	14998	1.5					
Feb	345	-21.1	Feb	3126	5.3					
Silver										
Dec	1831	-89.8	Dec	1756	-90.8					
Mar	15	-98.5	Mar	41	-97.8					

Source: MCX; Bloomberg

MCX Spread Matrix (Regular 1 KG)									
Gold	Dec	Feb	Apr	Jun					
Dec	0	-333	-617	-988					
Feb			-284	-655					
Apr				-371					
Jun				0					

Source: MCX; KS Commodity Research

MCX Spread Matrix (Regular 30 KG)								
Silver Dec Mar May Jul								
Dec	0	-1238	-1035	1479				
Mar			203	2717				
May				2514				
Jul				0				

Source: MCX; KS Commodity Research

Kaynat Chainwala kaynat.chainwala@kotak.com; 022 6621 6232

October 30, 2023									
	MCX India (Rs/kg)								
Commodity	Contract	High	Low	Close	Change	% Change			
Aluminium	Nov	207.20	205.40	207.00	1.55	0.75%			
Copper	Nov	713.20	707.00	708.60	1.80	0.25%			
Lead	Nov	186.45	185.95	186.20	0.20	0.11%			
Nickel	Nov	1560.00	6.00	1560.00	0.40	0.03%			
Zinc	Nov	223.20	220.80	223.20	1.55	0.70%			

Source - Bloomberg

LME (USD/tonne)								
Commodity	Contract	High	Low	Close	Change	% Change		
Aluminium	3 Month	2269.0	2221.5	2266.5	46.50	2.09%		
Copper	3 Month	8231.0	8083.0	8140.5	41.50	0.51%		
Lead	3 Month	2138.0	2105.0	2121.5	-1.50	-0.07%		
Nickel	3 Month	18650.0	18310.0	18489.0	115.00	0.63%		
Zinc	3 Month	2486.0	2457.0	2465.5	-6.00	-0.24%		

Source - Bloomberg

	LME Inventories							
Commodity	Opening Stocks	Closing Stocks	Net Change	On Warrnats	Total Cancel Warrants (C/W)	C/W Ratio*		
Aluminium	478725	476725	-2000	203800	272925	57.25%		
Copper	180600	178400	-2200	158550	19850	11.13%		
Lead	125225	126575	1350	125200	1375	1.09%		
Nickel	45564	45144	-420	37062	8082	17.90%		
Zinc	76525	81600	5075	60650	20950	25.67%		

Source - Bloomberg

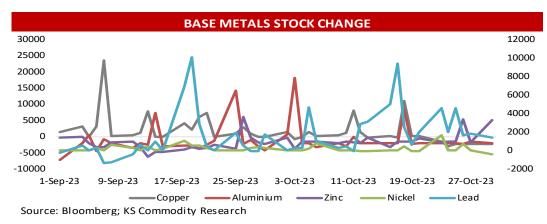
*C/W- Cancelled Warrants

LME Cash to 3 month spread (USD/tonne)									
Commodity Close PCP Change									
Aluminium	-8.00	-13.76	5.76						
Copper	-71.75	-69.00	-2.75						
Lead	21.00	32.50	-11.50						
Nickel	-222.00	-222.00	0.00						
Zinc	-11.25	-8.75	-2.50						

Source - Bloomberg

Metals – LME base metals closed on a positive note yesterday as positive industrial profits and stimulus support from China buoyed demand outlook. LME Copper jumped above \$8150/tonne and Aluminium rallied more than 2% as markets see an improved demand outlook following latest measures by China's government including the issuance of 1 trillion yuan of sovereign debt, highlighting support for infrastructure activity. Besides, Commodity trader and miner Glencore's own sourced copper production fell 5% in the first three quarters of the year to 735,800 metric tonnes, primarily due to the sale of Cobar in June 2023 and lower copper by-product production outside its copper department. Further, global risk sentiments saw some relief as Israel sent troops and tanks into the northern Gaza Strip in what it called the second and longer phase of its war against Hamas, but took a more cautious approach than it initially vowed taking a day-by-day approach instead of a massive invasion. LME Zinc and Lead saw marginal decline yesterday. Glencore's zinc output fell 4% to 672,100 tonnes in January-September 2023 in line with 2022 disposals of South American zinc operations and the closure of Matagami, offset by stronger production from Kazzinc (Zhairem) and Antamina.

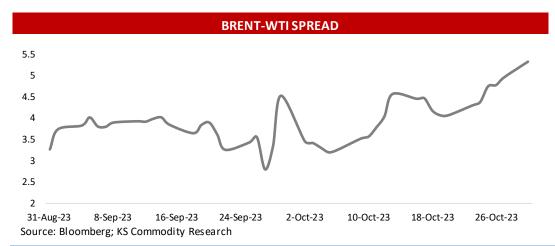
Today, base metals trade lower as investors cautiously await updates from Financial Work Conference hosted by President Xi Jinping, where he gathers state leaders and top bankers to set the direction over the next five years. This conference on Monday and Tuesday in Beijing, is an important event as it happens closed-door, and only twice-a-decade. Also, unexpected contraction in China's manufacturing activity last month is adding to uncertainty regarding economic recovery.



Royce Vargheese Joseph Royce.joseph@kotak.com; 022 6621 6230

Crude Oil - WTI Crude oil prices plunged more than 3% and closed near a one month low, amid an ease in the war premium as Israel's military action in Gaza proceeded more cautiously than previously anticipated, bolstering speculation that the conflict remains restricted to Israel and Gaza, despite escalation rhetoric from Iran and attacks by Iran backed proxies. Israel's ground offensive into Gaza will likely have limited long-term impact on oil supply, unless the conflict were to spread into countries like Iran. Having said that, renewed attacks on US army bases in Iraq by Iran backed militias raise fresh concerns. Meanwhile, Chinese data released earlier today showed that manufacturing activity unexpectedly fell into contraction after rising to expansion territory for one month in September, signaling renewed weakness in the sector.

Natural Gas - NYMEX Henry Hub gas prices slid more than 3% on Monday, amid ample European storage levels (above 99% full), warmer weather forecasts in US curbing demand and US dry gas production hovering near 104 bcfd. European gas prices steadied as traders took stock of immediate supply risks from the Israel- Hamas war, which remains contained to a relatively small region. According to Maxar, a cold air mass will bring temperatures down to below-normal levels for much of the US this week, followed by a warmer pattern for 4th Nov – 8th Nov, above-normal temperatures seen in western half through 9th – 13th Nov. LSEG forecast U S gas demand, including exports, to jump from 97.6 bcfd last week to 108.2 bcfd this week as cold weather boosts heating demand before sliding to 107.3 bcfd in the coming week. We expect gas prices to extend the weakness for the day.



CRUDE OIL								
	MCX Crud	de Oil (Rs/	barrel) as	30-Oct				
	Contract	High	Low	Close	Change	% Change		
	Nov	7067	6831	6880	-248	-3.5		
	Dec	7016	6808	6839	-245	-3.5		
	NYMEX V	VTI Crude	Oil (USD/k	parrel)				
	Dec	85.3	81.82	82.31	-3.23	-3.8		
	Jan	84.39	81.16	81.68	-3.02	-3.6		
	ICE Bren	t Crude O	il (USD/bar	rel)				
	Dec	90.15	87.2	87.45	-3.03	-3.3		
	Jan	88.94	85.81	86.35	-2.85	-3.2		
	NYMEX	Heating O	il (USD cen	ts/gallon)				
	Nov	304.6	294.2	296.63	-8.56	-2.8		
	Dec	295.44	286.17	288.41	-8.46	-2.8		
	NYMEX	Gasoline (USD cents	/gallon)				
	Nov	231.23	221.77	222	-9.25	-4.0		
	Dec	229.8	221.27	221.68	-7.84	-3.4		
	Spread (US	SD/barrel)		Close	Prev.	% Change		
	ICE Brent-	NYMEX W	TI	5.77	5.78	-0.01		
	NYMEX 3-2	-1 Crack S	pread	21.38	21.94	-0.56		
	Source: MO	X;Bloomb	erg					

NATURAL GAS								
MCX Natural Gas (Rs/mmBtu)								
Contract	High	Low	Close	Change	% Change			
Nov	299.7	277.4	299.7	4.30	1.5			
Dec	307.2	296.2	296.2	-18.60	-5.9			
NYMEX Natural Gas (USD/mmBtu)								
Dec	3.405	3.321	3.352	-0.13	-3.8			
Jan	3.647	3.563	3.589	-0.13	-3.5			
Spread/Rat	tio		Close	Prev.	% Change			
WTI-Natga	s Ratio		24.56	24.56	0.00			
MCX WTI-N	latgas Rat	io	22.96	24.13	-1.17			
Constant MCV Plantakan								

Source: MCX;Bloomberg

Devanshi Mehta devanshi.mehta@kotak.com

Abhijit Chavan chavan.abhijit@kotak.com



Source:-Tradingview, KS Commodity Research



Source:- Tradingview, KS Commodity Research



Source:-Tradingview, KS Commodity Research



Source:-Tradingview, KS Commodity Research

									Breakout	Breakout	Breakdown	Breakdown
	Commodity	S3	S2	S1	Pivot	R1	R2	R3	Above	Target	Below	Target
Index	MCX BULLDEX Nov	15966	16021	16057	16112	16148	16203	16239	16174	16215	16074	16033
	Spot Gold	1977.6	1984.3	1993.4	2000.1	2009.3	2016.0	2025.1	2004.8	2012.0	1987.4	1980.3
Precious Metals	MCX Gold Dec	60909	61010	61195	61296	61481	61582	61767	61437	61567	61123	60993
	MCX Gold Feb	61246	61361	61523	61638	61800	61915	62077	61765	61891	61461	61335
	MCX Gold Mini Nov	60523	60737	60851	61065	61179	61393	61507	61257	61406	60897	60748
Ξ	MCX Gold Mini Dec	60765	60938	61109	61282	61453	61626	61797	61451	61607	61073	60917
ä	Spot Silver	22.40	22.70	22.95	23.30	23.55	23.85	24.10	23.65	23.90	23.00	22.75
Ö	MCX Silver Dec	69429	70634	71839	73044	74249	75454	76659	75575	76740	72924	71758
æ	MCX Silver Mar	66515	68758	71001	73244	75487	77730	79973	77954	80256	73020	70718
	MCX Silver Mini Nov	69732	70865	71999	73132	74266	75399	76533	75512	76603	73018	71927
	MCX Silver Mini Feb	71701	72601	73500	74400	75299	76199	77098	76288	77142	74310	73456
	LME Copper	7890	7986	8038	8134	8186	8282	8334	8222	8290	8059	7991
	MCX Copper Nov	698.7	702.9	704.9	709.1	711.1	715.3	717.3	712.0	714.8	705.2	702.4
	MCX Copper Dec	703.3	707.1	709.1	712.9	714.9	718.7	720.7	715.6	718.3	709.3	706.6
	LME Zinc	2418	2437	2447	2466	2476	2495	2505	2481	2495	2450	2436
2	MCX Zinc Nov	218.9	219.9	221.3	222.3	223.7	224.7	226.1	224.5	225.7	221.9	220.8
Industrial Metals	MCX Zinc Dec	221.9	222.3	222.8	223.2	223.8	224.2	224.7	223.6	224.0	222.6	222.1
ž	LME Lead	2064	2084	2097	2117	2130	2150	2163	2140	2155	2103	2088
e	MCX Lead Nov	185.4	185.7	185.9	186.2	186.4	186.7	186.9	186.5	186.7	185.9	185.7
돭	MCX Lead Dec	186.3	186.5	186.6	186.7	186.8	187.0	187.1	187.0	187.1	186.7	186.6
ã	LME Nickel	17925	18117	18265	18457	18605	18797	18945	18676	18832	18302	18146
≘	MCX Nickel Nov	#NUM!	#NUM!	6.0	783.0	1560.0	2337.0	3114.0	2414.7	405600.0	705.3	#NUM!
	MCX Nickel Dec	#NUM!	#NUM!	6.0	783.0	1560.0	2337.0	3114.0	2414.7	405600.0	705.3	#NUM!
	LME Aluminium	2174	2198	2222	2245	2269	2293	2317	2293	2315	2240	2218
	MCX Aluminium Nov	203.5	204.5	205.3	206.3	207.1	208.1	208.9	208.0	208.8	206.0	205.2
	MCX Aluminium Dec	205.4	206.1	207.0	207.7	208.6	209.3	210.2	209.3	210.0	207.5	206.8
	NYMEX Crude Oil	78.45	80.15	81.90	83.60	85.40	87.10	88.90	84.20	85.80	80.40	78.80
	MCX Crude Oil Nov	6612	6721	6848	6957	7084	7193	7320	7010	7118	6750	6642
50	MCX Crude Oil Dec	6609	6708	6817	6916	7025	7124	7233	6953	7048	6725	6630
Energy	NYMEX Natural Gas	3.25	3.30	3.35	3.35	3.40	3.45	3.50	3.40	3.45	3.30	3.25
	MCX Natural Gas Nov	262.90	270.10	285.20	292.40	307.50	314.80	329.80	312.00	323.80	287.40	275.60
	MCX Natural Gas Dec	285.20	290.70	296.20	301.70	307.20	312.70	318.20	302.30	307.20	290.10	285.20

Source - Bloomberg; KS Commodity Research

<u>Pivot:</u> If the Price opens above the pivot, the day trend might be positive and if the price opens below pivot the day trend might be negative.

<u>Supports/Resistances:</u> During the normal course of trading, supports/resistances are important levels which may be used by traders to book profits if they have any buy/sell position.

<u>Breakout/Breakdown:</u> Breakout and Breakdown levels are the extreme levels above which the direction might change. The direction changes to bullish above the mentioned breakout and bearish if the price moves below the breakdown.

Breakout/ Breakdown Target: It is the price which might be achieved if it trades above or below the breakdown respectively.

*Note: Pivot, Suppport/Resistances, Breakout, Breakdown are generated as per statistical formulas. So these levels might differ from the levels given by the technical analyst as the analyst use technical charts for giving trading levels.

	(OPTION	S MONIT	OR AS ON 3	0-Oct-23		
	Gold	Silver	Crude Oil	Natural gas	Copper	Zinc	Nickel
Call Vol (lots)	2749	6945	487541	109398	91	1	0
Put Vol (lots)	2993	5464	417468	90207	46	0	0
Call OI (lots)	3585	7456	57028	34856	88	2	0
Put OI (lots)	4620	4212	21587	22763	59	1	0
Put Call Ratio (Vol)	1.09	0.79	0.86	0.82	0.51	0.00	-
Put Call Ratio(OI)	1.29	0.56	0.38	0.65	0.67	0.50	-
Turnover Call (crores)	1710.7	1568.4	36164.4	4235.7	16.5	0.1	0.0
Turnover Put (crores)	1801.3	1178.0	29147.1	3175.2	8.1	0.0	0.0
Max Call Vol (lots)	1076	1634	109739	28559	34	1	0
Max Call Vol Strike	62000	73000	7000	280	720	222.5	-
Max Put Vol (lots)	1207	1684	98748	25270	35	0	0
Max Put Vol Strike	60000	72000	7000	280	700	-	-
Max Call OI (lots)	961	1440	10456	6178	46	1	0
Max Call OI Strike	60000	80000	7000	300	700	222.5	-
Max Put OI (lots)	1118	828	4231	4653	46	1	0
Max Put OI Strike	60000	70000	7000	270	700	220	-

Souce: MCX; KS Commodity Research; Vol stands for Volume; OI stands for Open Interest

MCX SPREAD MONITOR							
Commodity	Current	Previous	Trend				
Gold 1M-2M (Rs/10gm)	-333	-377	Narrowing				
Silver 1M-2M (Rs/kg)	-1238	-1524	Narrowing				
Copper 1M-2M (Rs/kg)	-3.85	-3.85					
Aluminiun 1M-2M (Rs/kg)	-1.40	-1.05	Widening				
Lead 1M-2M (Rs/kg)	-0.60	-0.35	Widening				
Nickel 1M-2M (Rs/kg)	0.00	0.00					
Zinc 1M-2M (Rs/kg)	0.15	-1.55	Narrowing				
Crude 1M-2M (Rs/bbl)	41.00	44.00	Narrowing				
Natural gas 1M-2M (Rs/mmBtu)	3.50	-19.40	Narrowing				
Aluminium-Lead (Rs/kg)	20.80	19.45	Widening				
Zinc- Aluminium (Rs/kg)	16.20	16.20					
Zinc-Lead (Rs/kg)	37.00	35.65	Widening				
Gold Silver Ratio	0.83	0.85	Narrowing				
Crude/NG Ratio	22.96	24.13	Narrowing				

Source: Bloomberg; KS Commodity Research

RATING SCALE FOR DAILY REPORT

BUY - We expect the commodity to deliver 1% or more returns

SELL - We expect the commodity to deliver (-1%) or more returns

SIDEWAYS - We expect the commodity to trade in the range of (+/-)1%

NOTE - The recommendations are valid for one day from the date of issue of the report, subject to mentioned stop loss, if any

FUNDAMENTAL RESEARCH TEAM

Ravindra Rao Head of Research ravindra.rao@kotak.com +91 22 6621 6234 Kaynat Chainwala
Base Metals
kaynat.chainwala@kotak.com
+91 22 6621 6232

Royce Vargheese Joseph Bullion & Energy royce.joseph@kotak.com +91 22 6621 6230 Riteshkumar Sahu Agri Sector riteshkumar.sahu@kotak.com +91 22 6621 6233

TECHNICAL RESEARCH TEAM

Abhijit Chavan chavan.abhijit@kotak.com +91 22 6621 6217 lan Gonsalves ian.gonsalves@kotak.com +91 22 6621 6216 **Devanshi Mehta** devanshi.mehta@kotak.com

Yadnesh Shendge yadnesh.shendge@kotak.com

Disclosure/Disclaimer

Kotak Securities Limited established in 1994, is a subsidiary of Kotak Mahindra Bank Limited. Kotak Securities is one of India's largest brokerage and distribution house.

Kotak Securities Limited is a corporate trading and clearing member of BSE Limited, National Stock Exchange of India Limited (NSE), Metropolitan Stock Exchange of India Limited (MSE), National Commodity and Derivatives Exchange (NCDEX) and Multi Commodity Exchange (MCX). Our businesses include stock broking, services rendered in connection with distribution of primary market issues and financial products like mutual funds and fixed deposits, depository services and Portfolio Management.

Kotak Securities Limited is also a depository participant with National Securities Depository Limited (NSDL) and Central Depository Services (India) Limited (CDSL). Kotak Securities Limited is also registered with Insurance Regulatory and Development Authority as Corporate Agent for Kotak Mahindra Old Mutual Life Insurance Limited and is also a Mutual Fund Advisor registered with Association of Mutual Funds in India (AMFI). We are registered as a Research Analyst under SEBI (Research Analyst) Regulations, 2014.

We hereby declare that our activities were neither suspended nor we have defaulted with any stock exchange authority with whom we are registered in last five years. However, SEBI, Exchanges and Depositories have conducted the routine inspection and based on their observations have issued advise/warning/deficiency letters or levied minor penalty on KSL for certain operational deviations. We have not been debarred from doing business by any Stock Exchange / SEBI or any other authorities; nor has our certificate of registration been cancelled by SEBI at any point of time. We offer our research services to clients as well as our prospects.

This document is not for public distribution and has been furnished to you solely for your information and must not be reproduced or redistributed to any other person. Persons into whose possession this document may come are required to observe these restrictions. This material is for the personal information of the authorized recipient, and we are not soliciting any action based upon it. This report is not to be construed as an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. It is for the general information of present and prospective clients of Kotak Securities Ltd.

We have reviewed the report, and in so far as it includes current or historical information, it is believed to be reliable though its accuracy or completeness cannot be guaranteed. Neither Kotak Securities Limited, nor any person connected with it, accepts any liability arising from the use of this document. The recipients of this material should rely on their own investigations and take their own professional advice. Price and value of the investments referred to in this material may rise or fall. Past performance is not a guide for future performance. Certain transactions -including those involving futures, options and other derivatives involve substantial risk and are not suitable for every investor. Reports based on technical analysis centers on studying charts of price movement and trading volume, as opposed to focusing on fundamentals. The views provided herein are general in nature and does not consider risk appetite or investment objective of particular investor; readers are requested to take independent professional advice before investing. The Report does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Kotak Securities Limited does not provide any promise or assurance of favorable view for a particular commodity in any manner. The investor is requested to take into consideration all the risk factors including their financial condition, suitability to risk return profile and take professional advice before investing.

Opinions expressed are our current opinions as of the date appearing on this material only. While we endeavor to update on a reasonable basis the information discussed in this material, there may be regulatory, compliance or other reasons that prevent us from doing so. Prospective investors and others are cautioned that any forward-looking statements are not predictions and may be subject to change without notice. Kotak Securities Limited is not engaged in proprietary trade in commodities and the views mentioned in the report are not in any manner influenced by self-interest of Kotak Securities Limited or the individual Research Analyst.

We and our affiliates/associates, officers, directors, and employees, Research Analyst (including relatives) worldwide may: (a) from time to time, have long or short positions in, and buy or sell the securities thereof mentioned herein or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker or act as advisor or have other potential/material conflict of interest with respect to any recommendation and related information and opinions at the time of publication of Research Report or at the time of public appearance. The views provided herein are general in nature and does not consider risk appetite or investment objective of particular investor; readers are requested to take independent professional advice before investing. This should not be construed as invitation or solicitation to do business with KSL. Kotak Securities Limited is also a Portfolio Manager. Portfolio Management Team (PMS) takes its independent investment decisions

The analyst for this report certifies that all of the views expressed in this report accurately reflect his or her personal views about the securities if any and its or their securities, and no part of his or her compensation was, is or will be, directly or indirectly related to specific recommendations or views expressed in this report.

No part of this material may be duplicated in any form and/or redistributed without Kotak Securities' prior written consent. Details of Associates are available on website i.e. www.kotak.com

- 1. Note that the research analysts contributing to the research report may not be registered/qualified as research analysts with FINRA; and
- 2. Such research analysts may not be associated persons of Kotak Mahindra Inc. and therefore, may not be subject to NASD Rule 2711 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account

Any U.S. recipients of the research who wish to effect transactions in any security covered by the report should do so with or through Kotak Mahindra Inc. (Member FINRA/SIPC) and (ii) any transactions in the securities covered by the research by U.S. recipients must be effected only through Kotak Mahindra Inc. (Member FINRA/SIPC) at 369 Lexington Avenue 28th Floor NY 10017 USA (Tel: +1 212-600-8850).

Kotak Securities Limited and its non US affiliates may, to the extent permissible under applicable laws, have acted on or used this research to the extent that it relates to non US issuers, prior to or immediately following its publication. This material should not be construed as an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. This research report and its respective contents do not constitute an offer or invitation to purchase or subscribe for any securities or solicitation of any investments or investment services. Accordingly, any brokerage and investment services including the products and services described are not available to or intended for Canadian persons or US persons."

Research Analyst has served as an officer, director or employee of Subject Company: NA

We or our associates may have received compensation from the subject company, if any in the past 12 months: NA

We or our associates may have managed or co-managed public offering of securities for the subject company (ies) in the past 12 months: NA

We or our associates may have received compensation for investment banking or merchant banking or brokerage services from the subject company, if any in the past 12 months: NA

We or our associates may have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company, if any in the past 12 months: NA.

We or our associates may have received any compensation or other benefits from the Subject Company if any or third party in connection with the research report: NA.

Our associates may have financial interest in the subject company(ies) if any: NA

Research Analyst or his/her relative's financial interest in the subject company (ies)/securities: No

Kotak Securities Limited has financial interest in the subject company (ies) at the end of the week immediately preceding the date of publication of Research Report: No

'However, Kotak Securities Prop/Arbitrage team could have exposure/financial interest to the subject company/companies during the ongoing month.'

'Nature of financial interest is holding of equity shares and/or derivatives of the subject company.'

Our associates may have actual/beneficial ownership of 1% or more securities at the end of the month immediately preceding the date of publication of Research Report.

Research Analyst or his/her relatives has actual/beneficial ownership of 1% or more securities at the end of the month immediately preceding the date of publication of Research Report: No

Kotak Securities Limited has actual/beneficial ownership of 1% or more securities at the end of the month immediately preceding the date of publication of Research Report: No

Subject Company, if any may have been client during twelve months preceding the date of distribution of the research report.: NA

Daily price movement of commodities is available on the following websites:

https://www.mcxindia.com/market-data/market-watch

https://ncdex.com/MarketData/LiveFuturesQuotes.aspx

https://www.nseindia.com/live market/dynaContent/live watch/commodity der stock watch.htm

https://www.bseindia.com/markets/Commodity/commodity.html

Our research should not be considered as an advertisement or advice, professional or otherwise. The investor is requested to take into consideration all the risk factors including their financial condition, suitability to risk return profile and the like and take professional advice before investing.

Investments in securities market are subject to market risks. Read all the related documents carefully before investing. Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors.

Kotak Securities Limited. Registered Office: 27 BKC, C 27, G Block, Bandra Kurla Complex, Bandra (E), Mumbai 400051. CIN: U99999MH1994PLC134051, Telephone No.: +22 43360000, Fax No.: +22 67132430. Website: www.kotak.com / www.kotaksecurities.com. Correspondence Address: Infinity IT Park, Bldg. No 21, Opp. Film City Road, A K Vaidya Marg, Malad (East), Mumbai 400097. Telephone No: 42856825. SEBI Registration No: INZ000200137(Member of NSE, BSE, MSE, MCX & NCDEX), AMFI ARN 0164, PMS INP000000258 and Research Analyst INH000000586. NSDL/CDSL; IN-DP-629-2021. Compliance @kotak.com - 4285 8484. or Email: ks.compliance@kotak.com

In case you require any clarification or have any query/concern, kindly write to us at Service.securities@kotak.com. For grievances write to KS.escalation@kotak.com and follow below Grievances Escalation matrix.

Details of	Contact Person	Address	Contact No.	Email Id	Working hours
Customer care/Complaints	Mr. Ritesh Shah	Kotak Towers, 8th Floor, Building No.21, Infinity Park, Off Western Express Highway, Malad (East), Mumbai, Maharashtra - 400097	18002099393	ks.escalation@kotak.com	9 a.m. to 6 p.m. All trading days
Head of Customer Care	Mr. Tabrez Anwar	Kotak Towers, 8th Floor, Building No.21, Infinity Park, Off Western Express Highway, Malad (East), Mumbai, Maharashtra - 400097	022-42858208	ks.servicehead@kotak.com	9 a.m. to 6 p.m. All trading days
Compliance Officer	Mr. Sandeep Gupta	Kotak Towers, 8th Floor, Building No.21, Infinity Park, Off Western Express Highway, Malad (East), Mumbai, Maharashtra - 400097	022-42858484	ks.compliance@kotak.com	9 a.m. to 6 p.m. All trading days
CEO	Mr. Jaideep Hansraj	Kotak Towers, 8th Floor, Building No.21, Infinity Park, Off Western Express Highway, Malad (East), Mumbai, Maharashtra - 400097	022-42858301	ceo.ks@kotak.com	9 a.m. to 6 p.m. All trading days

In absence of response/complaint not addressed to your satisfaction, you may lodge a complaint with SEBI at https://scores.gov.in/scores/Welcome.html or Exchange at https://scores.gov.in/scores/Welcome.html or Exchange at https://scores.gov.in/scores/Welcome.html or Exchange at https://scores.gov.in/scores/Welcome.html or Exchange complaints.
Or Please quote your Service Ticket/Complaint Ref No. while raising your complaint at SEBI SCORES/Exchange portal or Depository at https://scores.gov.in/scores/Welcome.html or Exchange portal or Depository at https://scores.gov.in/scores/Welcome.html or Please quote your Service Ticket/Complaints.