METALS & ENERGY

October 18, 2023

Market Overview

Currencies	Close	Previous Close	% Change
Dollar Index	106.25	106.24	0.01%
Euro/USD	1.058	1.056	0.16%
GBP/USD	1.218	1.222	-0.28%
USD/YEN	149.81	149.51	0.20%
USD/INR	83.26	83.28	-0.02%

Source : Bloomberg

Global Indices	Close	Previous Close	% Change
DJIA	33,997.65	33,984.54	0.04%
FTSE 100	7,675.21	7,630.63	0.58%
Nikkei	32,040.29	31,659.03	1.20%
Nifty 50	19,811.50	19,731.75	0.40%
Shanghai	3,083.50	3,073.81	0.32%

Source : Bloomberg

Worsening geopolitical tensions after a deadly blast at a hospital in Gaza is weighing on market sentiments

Comex gold jumped 1% to four week high boosted by renewed safe haven buying as intensifying conflict in the Middle East reduced hopes of a diplomatic resolution

LME base metals witness a much needed recovery following stronger than expected economic data from China

As per data released by China's National Bureau of Statistics, Chinese economy expanded 4.9% yoy in the July to September quarter, while industrial production and retail sales grew 4.5% and 5.5% in September, all beating estimates

WTI Crude rallied 2.5% today and trades near \$89/bbl, as leaders of Jordan, Egypt and the Palestinian Authority canceled a summit with US President Biden, complicating the US push to contain the Israel-Hamas conflict

Today, traders cautiously eye Israel-Hamas developments, EU and UK CPI, along with speeches by several FOMC officials

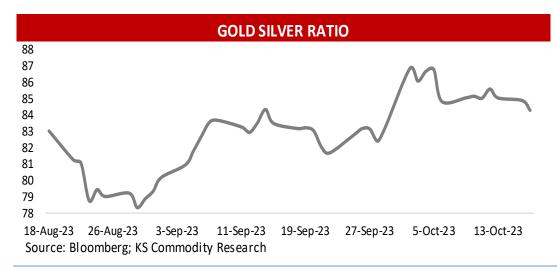
Data and Events due today (Source: Forex factory)

Date	IST	Currency	Data	Forecast	Previous	Importance
18- Oct-2023	14:30	EUR	Final CPI y/y	0.04	0.04	Low
	18:00	USD	Building Permits	1.46M	1.54M	Medium
	18:00	USD	Housing Starts	1.38M	1.28M	Low
	20:00	USD	Crude Oil Inventories	(0.5M)	10.2M	Low
	21:30	USD	FOMC Member Waller Speaks			Medium
	22:00	USD	FOMC Member Williams Speaks			Low

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

Gold - COMEX Gold prices closed marginally higher on Tuesday, paring early gains as robust US economic data boosted the yields and dollar. The yield on the 10-year US Treasury note extended gains to above 4.8%, back to 2007-highs, after retail sales in the US topped forecasts, pointing to a resilient consumer spending and reinforcing the belief that the US economy is sufficiently strong to maintain higher interest rates for an extended period. Retail sales in the US advanced 0.7% mom in September 2023, following an upwardly revised 0.8% rise in August and beating forecasts of a 0.3% advance. Meanwhile, US manufacturing production rose 0.4%, while Industrial production went up 0.3% mom in September, beating expectations. Gold prices climbed to a fresh four-week high in early Asian trading, as the intensifying conflict in the Middle East bolstered haven demand, with hopes for a diplomatic resolution deteriorating after a deadly explosion in Gaza. Today Eurozone CPI, US housing data and a slew of Fed officials will be in focus.

Silver - COMEX Silver prices edged higher on Tuesday, tracking mixed sentiments in bullions and base metals. A slew of data released from China earlier today showed that the economy slightly recovered in the third quarter as the government stepped up support to boost growth and consumer spending picked up, while the property market remained a drag. Chinese GDP increased 4.9% in the July-September period from a year prior, while industrial output rose 4.5% and retail sales expanded 5.5% in September. Amid renewed geo-political tensions, we expect Silver prices stay buoyed for the day.



	COMEX as on 17-Oct-23										
Go	Gold (US dollar per troy ounce)										
C	ontract	High	Low	Close	Change	% Change					
	Dec	1944.5	1924.6	1935.7	1.4	0.07%					
	Feb	1963.9	1944.5	1955.4	1.5	0.08%					
Silv	ver (US do	llar per tro	y ounce)								
	Dec	23.18	22.54	23.02	0.26	1.1%					
	Mar	23.50	22.88	23.35	0.26	1.1%					
			MCX as on	17-Oct-23							
Go	ld (Rupee	s per 10 gra	ms)								
	Dec	59478	59000	59218	52	0.1%					
	Feb	59948	59485	59728	78	0.1%					
Silv	ver (Rupe	es per kilog	ram)								
	Dec	72000	70600	71567	530	0.7%					
	Mar	73350	71900	72985	485	0.7%					
MC	X Bullion	Index (poir	nts)								
	Oct	15700	15562	15652	32	0.2%					
_											

Source: MCX; Bloomberg

Volume and OI Analysis (MCX)										
Gold	Vol (lots)	Change (%)		OI (lots)	Change (%)					
Dec	5970	24.5	Dec	13782	-0.8					
Feb	160	-49.5	Feb	1395	6.6					
Silver										
Dec	15922	81.4	Dec	19533	-4.8					
Mar	398	24.4	Mar	2049	0.0					

Source: MCX; Bloomberg

MCX Spread Matrix (Regular 1 KG)										
Gold	Dec	Feb	Apr	Jun						
Dec	0	-510	-900	-1376						
Feb			-390	-866						
Apr				-476						
Jun				0						

Source: MCX; KS Commodity Research

MCX Spread Matrix (Regular 30 KG)										
Silver		Dec	Mar	May	Jul					
Dec		0	-1418	-2251	-2894					
Mar				-833	-1476					
May					-643					
Jul					0					

Source: MCX; KS Commodity Research

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

	October 17, 2023										
	October 17, 2025										
	MCX India (Rs/kg)										
Commodity	Contract	High	Low	Close	Change	% Change					
Aluminium	Oct	202.20	201.25	202.10	-0.50	-0.25%					
Copper	Oct	700.80	695.00	699.10	-1.40	-0.20%					
Lead	Oct	187.80	184.05	186.00	1.05	0.57%					
Nickel	Oct	1598.20	1598.20	1598.20	10.80	0.68%					
Zinc	Oct	219.45	217.30	218.90	-1.55	-0.70%					

Source - Bloomberg

LME (USD/tonne)									
Commodity	Contract	High	Low	Close	Change	% Change			
Aluminium	3 Month	2186.0	2158.5	2177.0	-3.50	-0.16%			
Copper	3 Month	7995.5	7891.0	7970.5	-6.00	-0.08%			
Lead	3 Month	2115.5	2058.5	2078.0	5.00	0.24%			
Nickel	3 Month	18645.0	18360.0	18593.0	-9.00	-0.05%			
Zinc	3 Month	2452.0	2384.0	2421.0	-25.00	-1.02%			

Source - Bloomberg

LME Inventories										
C	Opening	Closing	Net	On	Total Cancel	C/W				
Commodity	Stocks	Stocks	Change	Warrnats	Warrants (C/W)	Ratio*				
Aluminium	486600	484600	-2000	193350	291250	60.10%				
Copper	181000	180675	-325	166100	14575	8.07%				
Lead	96225	105625	9400	103925	1700	1.61%				
Nickel	42870	42870	0	41922	948	2.21%				
Zinc	83450	81850	-1600	51275	30575	37.35%				

Source - Bloomberg

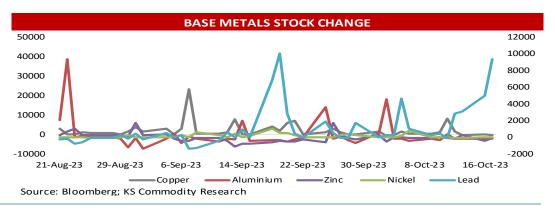
*C/W- Cancelled Warrants

LME Cash to 3 month spread (USD/tonne)								
Commodity	Close	PCP	Change					
Aluminium	-19.75	-27.25	7.50					
Copper	-67.75	-61.00	-6.75					
Lead	22.00	39.50	-17.50					
Nickel	-260.00	-272.50	12.50					
Zinc	-20.75	-22.50	1.75					

Source - Bloomberg

Metals – LME base metals resumed declines yesterday as traders remain cautious of tensions in the Middle East and preferred remaining on the sidelines ahead of key economic data releases from top consumer China. LME Copper remained below \$8000/tonne but sharp downside was capped as markets were hopeful that ramped up diplomatic efforts with Biden set to travel to Israel Wednesday and Secretary of State Antony Blinken return to Israel to meet Prime Minister Benjamin Netanyahu, after talks with Arab governments, may help prevent the conflict from engulfing the region. LME Aluminium and Zinc plunged to seven week low of \$2158.5 and \$2384/tonne respectively amid lingering China's property sector woes. China's biggest private property developer, Country Garden Holdings Co would suffer its first-ever public dollar bond default if it misses an interest-payment deadline that ends on Wednesday, while Evergrande Group faces possibility of asset liquidation on Oct. 30 when a key court hearing takes place. LME Lead extended its recovery after a 5% fall last week.

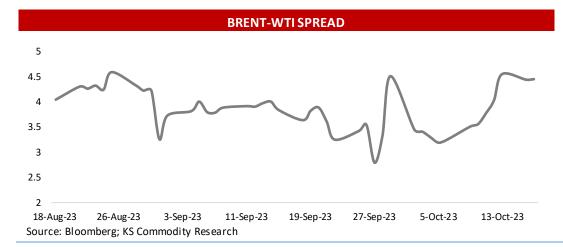
Today, LME base metals are trading higher, witnessing a much needed respite following stronger than expected economic data from China. As per data released by China's National Bureau of Statistics, Chinese economy expanded 4.9% yoy in the July to September quarter, while industrial production and retail sales grew 4.5% and 5.5% in September, all beating estimates. However, global risk off sentiments on reduced hopes of a diplomatic resolution after a deadly blast at a hospital in Gaza may limit sharp gains. Further, surprising 0.7% increase in US Retail sales in September added to strong US data and reinforced the higher-for-longer rates stand, pushing traders to price in more than 60% odds that policymakers will raise interest rates by a quarter percentage point in January.



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

Crude Oil - WTI Crude oil futures closed marginally flat on Tuesday, as US intensified diplomatic efforts to prevent the Israel-Gaza conflict spiraling into a multi-front war, easing supply concerns. However, oil prices rose almost 1% in early Asian trading, as a deadly explosion at a Gaza hospital boosted tensions in the Middle East before President Joe Biden's arrival in the region. Meanwhile, Chinese data released earlier today showed that GDP growth came above forecasts, while retail sales rose the most in four months. The Chinese economy expanded by 4.9% year-on-year in Q3 2023, beating market forecasts of 4.4%, as sustained monetary stimulus offset weak foreign demand and the impact of a prolonged property crisis. API inventory data released earlier today showed that crude stocks in US dropped by about 4.4 million barrels last week, ahead of EIA data.

Natural Gas - NYMEX Henry Hub gas prices extended declines for the fifth straight day, capping the longest losing streak since last December, as forecasts showed warmer weather for the East Coast while some cooler changes are expected for late October in the Midwest. European gas prices fluctuated with traders closely watching US President Joe Biden's upcoming trip to Israel in an effort to prevent an escalation of its conflict with Hamas. European gas storages are above 98%, easing concerns ahead of winter. Meanwhile, labor unions halted plans to strike at Chevron Corp.'s liquefied natural gas facilities in Australia, ending a dispute that had roiled global markets for the fuel. We expect gas prices to remain weak amid milder weather forecasts and ample storage levels, however, downside might be limited owing to heightened tensions in middle east.



CRUDE OIL										
MCX Cru	de Oil (Rs/	barrel) as	17-Oct							
Contract	High	Low	Close	Change	% Change					
Oct	7528	7132	7192	-47	-0.6					
Nov	7180	7044	7095	-43	-0.6					
NYMEX V	VTI Crude	Oil (USD/k	arrel)							
Nov	87.75	85.6	86.66	0.00	0.0					
Dec	86.44	84.39	85.44	0.18	0.2					
ICE Brer	nt Crude O	il (USD/bar	rel)							
Dec	91	88.88	89.9	0.25	0.3					
Jan	89.56	87.52	88.56	0.29	0.3					
NYMEX	Heating O	il (USD cen	ts/gallon)							
Nov	318.08	309.56	317.67	2.75	0.9					
Dec	305.67	299.54	305.32	1.11	0.4					
NYMEX	Gasoline (USD cents	/gallon)							
Nov	230.2	225.94	228.45	1.15	0.5					
Dec	228.91	224.66	227.25	1.48	0.7					
Spread (US	SD/barrel)		Close	Prev.	% Change					
ICE Brent-	NYMEX W	TI	4.46	4.39	0.07					
NYMEX 3-2	2-1 Crack S	pread	21.78	21.07	0.71					
Source: Mo	CX;Bloomb	oerg								

Source: Mexiphosinaerg										
NATURAL GAS										
MCX Natural Gas (Rs/mmBtu)										
Contract	High	Low	Close	Change	% Change					
Oct	261.5	252.5	255.8	-6.00	-2.3					
Nov	292.5 284.1		287.4	-4.60	-1.6					
	NYMEX Natural Gas (USD/mmBtu)									
Nov	3.137	3.024	3.079	-0.03	-1.0					
Dec	3.512	3.408	3.468	-0.01	-0.3					
Spread/Ra	tio		Close	Prev.	% Change					
WTI-Natga	s Ratio		28.15	27.87	0.27					
MCX WTI-N	Natgas Rat	io	28.12	27.65	0.46					
Source: MCX;Bloomberg										

Devanshi Mehta devanshi.mehta@kotak.com

Abhijit Chavan chavan.abhijit@kotak.com



Source:-Bloomberg, KS Commodity Research



Source:- Bloomberg, KS Commodity Research



Source:-Bloomberg, KS Commodity Research



Source:-Bloomberg, KS Commodity Research

C	- "·								Breakout	Breakout	Breakdown	Breakdown
	Commodity	S3	S2	S1	Pivot	R1	R2	R3	Above	Target	Below	Target
Index	MCX BULLDEX Oct	15409	15486	15547	15624	15685	15762	15823	15728	15791	15576	15513
	Spot Gold	1893.0	1902.8	1912.1	1921.9	1931.2	1941.0	1950.3	1933.7	1942.4	1912.7	1904.0
	MCX Gold Dec	58475	58738	58953	59216	59431	59694	59909	59481	59698	58955	58738
ş	MCX Gold Feb	58924	59204	59387	59667	59850	60130	60313	59983	60193	59473	59263
Precious Metals	MCX Gold Mini Nov	58286	58493	58686	58893	59086	59293	59486	59142	59324	58702	58521
Σ	MCX Gold Mini Dec	58338	58626	58895	59183	59452	59740	60009	59563	59817	58951	58697
ä	Spot Silver	21.75	22.05	22.40	22.70	23.05	23.35	23.65	23.15	23.45	22.45	22.15
Ö	MCX Silver Dec	68984	69792	70384	71192	71784	72592	73184	72337	72986	70797	70148
Æ	MCX Silver Mar	70408	71154	71858	72604	73308	74054	74758	73783	74457	72188	71513
	MCX Silver Mini Nov	69027	69763	70478	71214	71929	72665	73380	72392	73068	70796	70121
	MCX Silver Mini Feb	70608	71309	71998	72699	73388	74089	74778	73867	74513	72338	71691
	LME Copper	7816	7853	7920	7958	8025	8062	8129	8028	8076	7913	7865
	MCX Copper Oct	690.9	693.0	696.7	698.8	702.5	704.5	708.3	702.3	705.0	695.9	693.3
	MCX Copper Nov	693.9	696.2	700.4	702.6	706.8	709.1	713.3	707.1	710.0	700.0	697.1
	LME Zinc	2330	2357	2398	2425	2466	2493	2534	2458	2490	2384	2352
S	MCX Zinc Oct	215.9	216.6	218.0	218.8	220.2	220.9	222.3	220.1	221.1	217.7	216.8
Industrial Metals	MCX Zinc Nov	216.8	217.8	219.4	220.5	222.1	223.1	224.7	222.0	223.2	219.1	217.9
ž	LME Lead	1991	2025	2048	2082	2105	2139	2162	2109	2136	2047	2020
<u></u>	MCX Lead Oct	180.1	182.1	183.8	185.8	187.6	189.6	191.3	188.1	189.8	184.0	182.2
튡	MCX Lead Nov	181.4	182.7	184.8	186.2	188.3	189.6	191.7	188.3	189.9	184.5	182.9
ĕ	LME Nickel	18142	18251	18427	18536	18712	18821	18997	18750	18882	18436	18304
≗	MCX Nickel Oct	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2
	MCX Nickel Nov	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2	1598.2
	LME Aluminium	2139	2149	2167	2176	2194	2204	2222	2192	2205	2162	2149
	MCX Aluminium Oct	200.7	201.0	201.7	202.0	202.6	202.9	203.6	202.6	203.1	201.6	201.2
	MCX Aluminium Nov	201.1	201.6	202.9	203.5	204.8	205.3	206.6	204.7	205.6	202.7	201.9
	NYMEX Crude Oil	83.65	84.60	85.80	86.75	87.95	88.90	90.10	87.85	88.85	85.50	84.50
	MCX Crude Oil Oct	6603	6867	6999	7263	7395	7659	7791	7410	7591	6974	6793
Energy	MCX Crude Oil Nov	6913	6978	7049	7114	7185	7250	7321	7170	7232	7020	6958
e e	NYMEX Natural Gas	2.95	3.00	3.05	3.10	3.15	3.20	3.25	3.15	3.20	3.00	2.95
ш	MCX Natural Gas Oct	244.00	248.20	253.00	257.20	262.00	266.20	271.00	260.80	264.90	250.90	246.70
	MCX Natural Gas Nov	276.10	280.10	284.50	288.50	292.90	296.90	301.30	292.00	295.90	282.80	278.90

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 1	L7-Oct-23		
	Gold	Silver	Crude Oil	Natural gas	Copper	Zinc	Nickel
Call Vol (lots)	2251	2073	331167	184368	225	0	0
Put Vol (lots)	1846	1601	261522	160692	84	0	0
Call OI (lots)	2560	7331	56694	64636	356	14	0
Put OI (lots)	2183	3909	40461	49960	143	6	0
Put Call Ratio (Vol)	0.82	0.77	0.79	0.87	0.37	-	-
Put Call Ratio(OI)	0.85	0.53	0.71	0.77	0.40	0.43	-
Turnover Call (crores)	1366.0	465.0	0.0	0.0	40.1	0.0	0.0
Turnover Put (crores)	1077.6	340.0	0.0	0.0	14.9	0.0	0.0
Max Call Vol (lots)	944	533	71545	56923	88	0	0
Max Call Vol Strike	60000	71000	7300	260	700	-	-
Max Put Vol (lots)	502	506	74673	43862	45	0	0
Max Put Vol Strike	59000	70000	7200	260	700	-	-
Max Call OI (lots)	955	1249	9288	10521	101	11	0
Max Call OI Strike	60000	80000	7500	260	700	225	-
Max Put OI (lots)	505	845	6356	6979	75	11	0
Max Put OI Strike	57000	70000	7500	240	700	215	-

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)	-510	-484	Widening				
Silver 1M-2M (Rs/kg)	-1418	-1463	Narrowing				
Copper 1M-2M (Rs/kg)	-4.45	-3.10	Widening				
Aluminiun 1M-2M (Rs/kg)	-1.60	-1.70	Narrowing				
Lead 1M-2M (Rs/kg)	-0.40	-0.05	Widening				
Nickel 1M-2M (Rs/kg)	0.00	0.00					
Zinc 1M-2M (Rs/kg)	-1.65	-1.70	Narrowing				
Crude 1M-2M (Rs/bbl)	97.00	101.00	Narrowing				
Natural gas 1M-2M (Rs/mmBtu)	-31.60	-30.20	Widening				
Aluminium-Lead (Rs/kg)	16.10	17.65	Narrowing				
Zinc- Aluminium (Rs/kg)	16.80	17.85	Narrowing				
Zinc-Lead (Rs/kg)	32.90	35.50	Narrowing				
Gold Silver Ratio	0.83	0.83	Narrowing				
Crude/NG Ratio	28.12	27.65	Widening				

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.'

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/Complaint s	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://investors.gov.in/scores/Welcome.html or Exchange at https://scores.gov.in/scores/Welcome.html or Exchange at https://investorhelpline.nseindia.com/NICEPLUS/,https://scores.gov.in/scores/Welcome.html or Please quote your Service Ticket/Complaints Ref No. while raising your complaint at SEBI SCORES/Exchange portal or Depository at https://www.epass.nsdl.com/complaints/websitecomplaints.aspx and https://www.edslindia.com/Footer/grievances