

Hindustan Zinc

Estimate changes	↔
TP change	↔
Rating change	↔

Bloomberg	HZ IN
Equity Shares (m)	4225
M.Cap.(INRb)/(USDb)	1830.4 / 21.2
52-Week Range (INR)	808 / 285
1, 6, 12 Rel. Per (%)	-1/-21/31
12M Avg Val (INR M)	1480

Financials Snapshot (INR b)

Y/E MARCH	FY25	FY26E	FY27E
Net Sales	336	371	379
EBITDA	171.7	208.5	214.9
PAT	101.4	131.7	135.4
EPS (INR)	24.0	31.2	32.0
GR. (%)	30.7	29.9	2.8
BV/Sh (INR)	30.0	49.1	69.2

Ratios

ROE (%)	72.8	78.8	54.2
RoCE (%)	59.4	67.5	53.6

Valuations

P/E (X)	18.0	13.9	13.5
P/BV (X)	14.4	8.8	6.2
EV/EBITDA (X)	10.6	8.3	7.5
Div Yield (%)	6.9	2.8	2.8

Shareholding pattern (%)

As On	Dec-24	Sep-24	Dec-23
Promoter	63.4	63.4	64.9
DII	32.0	32.7	32.5
FII	1.4	1.0	0.7
Others	3.2	2.9	1.9

FII Includes depository receipts

CMP: INR433 TP: INR460 (+6%) Neutral

Revenue in line, beat on EBITDA; focuses on CoP

- Hindustan Zinc (HZ)'s revenue was INR86b (YoY/QoQ: +18%/+4%) vs. our estimate of INR82b. The growth was largely on account of higher zinc and silver prices and a strong dollar, marginally offset by lower metal volumes.
- EBITDA stood at INR45b (YoY/QoQ: +28%/+9%) against our estimate of INR41b, led by higher revenues and lower-than-expected cost of production (COP). EBITDA margin came in at 52.2% vs. 50% in 2QFY25.
- Zinc's COP for 3QFY25 stood at USD1,041/t (INR 87,960/t), -5% YoY and -3% QoQ. The improvement was led by higher metal grades and better domestic coal availability with lower costs, which were further supported by increased renewable energy and higher acid realizations.
- APAT stood at INR27b (YoY/QoQ: +32%/+15%) vs. our est. of INR23b. For 9MFY25, revenue grew 17%, EBITDA grew 26%, and APAT rose 30% YoY.
- Mined metal for 3QFY25 stood at 265kt, -2% YoY, with lower ore production at Agucha and SK mines, partly offset by improved mined metal grades and mill recovery. However, it rose 3% QoQ driven by higher mined metal grades and an increase in production at Agucha and Zawar mines.
- Total refined metal production was flat YoY at 259 kt and was marginally down QoQ due to a planned maintenance shutdown.
- The refined Zinc volume stood at 204kt (YoY/QoQ: flat / +3%) and the refined Lead volume stood at 55kt (YoY/QoQ: -2% /-13%), lower due to pyro plant operations on lead mode for longer duration.
- Silver volume stood at 160t (YoY/QoQ: -19%/ -13%) on account of lower silver output input from SK Mine.

Key management commentary

- For FY25, the management retained its mined metal production guidance of 1,100-1,125kt and refined metal production of 1,075-1,100kt
- The management maintained its zinc CoP guidance of USD1,050-1,100/t for FY25 and was confident in meeting the lower end of the band.
- Silver volume guidance for FY25 is expected to be in the range of 700-710 tonnes vs earlier guidance of 750-775 tonnes.
- Zinc COP stood at USD1,041/t in 3QFY25 vs USD1,071/t in Q2FY25. Management targets to exit at USD1,000/t by FY26 end and below USD1,000/t by the end of FY27.

Valuation and view

- The performance was largely in line with our estimates. The company continues to focus on improving production with tight cost control. We retain our earnings estimates and expect HZ to maintain its focus on profitability.
- At CMP, HZ trades at 7.5x FY27E EV/EBITDA, and we believe the current valuation prices in all positive factors. **We reiterate our Neutral rating** with a TP of INR460 (premised on 8x EV/EBITDA on FY27 estimates).

Alok Deora - Research analyst (Alok.Deora@MotilalOswal.com)

Sonu Upadhyay - Research analyst (Sonu.Upadhyay@MotilalOswal.com)

Investors are advised to refer through important disclosures made at the last page of the Research Report.

Motilal Oswal research is available on www.motilaloswal.com/Institutional-Equities, Bloomberg, Thomson Reuters, Factset and S&P Capital.

Quarterly Performance

(INR b)

Y/E March	FY24				FY25E				FY24	FY25E	FY25 2QE	Vs. Est. %
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE				
Mine prodn. (kt)	257	252	271	299	263	256	265	299	1,079	1,083		
Sales												
Zinc refined (kt)	208	185	203	221	211	198	201	218	817	828		
Lead refined (kt)	50	57	56	53	51	63	55	62	216	231		
Silver (tonnes)	179	181	197	179	167	184	160	168	736	679		
Net Sales	72.8	67.9	73.1	75.5	81.3	82.5	86.1	86.5	289.3	336.5	82.0	5.0
Change (YoY %)	(22.4)	(18.5)	(7.1)	(11.3)	11.6	21.5	17.8	14.6	(15.2)	16.3		
Change (QoQ %)	(14.4)	(6.7)	7.6	3.3	7.7	1.5	4.4	0.4				
EBITDA	33.5	31.4	35.2	36.5	39.5	41.2	45.0	46.0	136.6	171.7	40.5	11.0
Change (YoY %)	(34.8)	(28.8)	(5.0)	(14.2)	17.9	31.3	27.8	26.0	(22.0)	25.7		
Change (QoQ %)	(21.3)	(6.2)	12.2	3.6	8.1	4.5	9.1	2.2				
As % of Net Sales	46.0	46.2	48.2	48.3	48.5	50.0	52.2	53.2	47.2	51.0		
Finance cost	2.2	2.3	2.4	2.6	2.6	3.0	2.9	3.2	9.6	11.7		
DD&A	8.0	8.3	9.1	9.4	8.4	8.8	9.1	9.5	34.7	35.8		
Other Income	2.8	2.2	3.0	2.7	2.7	2.7	2.2	2.9	10.7	10.4		
PBT (before EO item)	26.1	23.1	26.7	27.2	31.1	32.1	35.3	36.1	103.1	134.7		
EO exp. (income)	-	-	-	-	-	(0.8)	-	-	-	(0.8)		
PBT	26.1	23.1	26.7	27.2	31.1	33.0	35.3	36.1	103.1	135.5		
Total Tax	6.5	5.8	6.4	6.9	7.7	8.0	8.5	9.0	25.5	33.3		
% Tax	24.8	25.0	24.0	25.2	24.7	24.4	24.1	25.1	24.7	24.5		
Reported PAT	19.6	17.3	20.3	20.4	23.5	24.9	26.8	27.1	77.6	102.2		
Adjusted PAT	19.6	17.3	20.3	20.4	23.5	24.1	26.8	27.1	77.6	101.4	23.1	16.1
Change (YoY %)	(36.5)	(35.5)	(5.9)	(21.1)	19.4	34.6	32.1	32.8	(26.2)	29.6		
Change (QoQ %)	(24.0)	(12.0)	17.3	0.5	15.1	(0.8)	15.1	1.1				



Highlights from the management commentary

Performance guidance

- For FY25, the management retained its mined metal production guidance of 1,100-1,125kt and refined metal production of 1,075-1,100kt
- The decline in CoP during 3QFY25 was largely on account of better grades, softened coal and input commodity prices, and better linkage coal materialization. The management maintained its zinc CoP guidance of USD1,050-1,100/t for FY25 and was confident in meeting the lower end of the band.
- Silver volume guidance for FY25E is expected to be in the range of 700-710 tonnes vs earlier guidance of 750-775 tonnes.
- Hedging gain during the 9MFY25 period stood at INR580mn.
- Zinc COP stood at USD1,041/t in 3QFY25 vs USD1,071/t in Q2FY25. Management targets to exit USD1,000/t by FY26 end and below USD1,000/t by FY27 end.
- HZL has paid advance royalties of INR6.5b for FY25E.

Other highlights

- Mine development plan to reach 2mtpa run rate – HZL will be increasing its capacities from 1,200ktpa to 1,450ktpa in the first phase by FY28E and then add another 500-550ktpa single plant to achieve the targeted volumes. The total expected capex from this expansion is set to be between USD2-2.5b.
- Despite technical difficulties, the fumers are steadily ramping up. Design inefficiencies and possible problems with parts have been identified in the last 5-6 months. It should start giving good results by Q4FY25. The fumer has given around 5 tons of silver so far and is running at a 30% utilization level as per its designed capacity (expected to reach 60% by the end of FY25E).

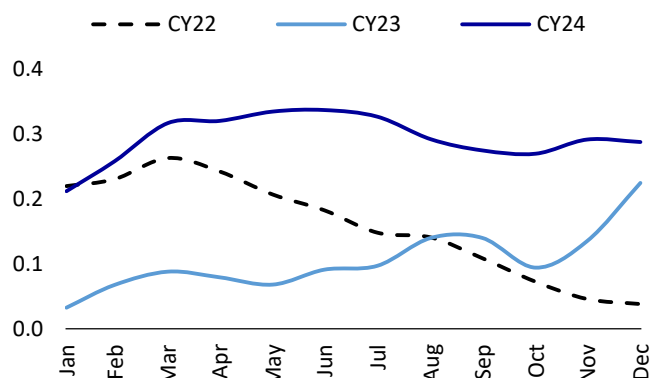
- About 18-20% of energy share will be RE by the end of the next quarter (dipped from 25% estimated earlier). The current share stands at 15%.
- Supreme Court ruling on retrospective taxes on royalties – a net impact of INR830m had been provided for in exceptional items in the 2QFY25 results. The company expects to see this as a reversal in the next quarter as no tax notices have been received.

Update on capex

- 510kt of DAP/NPK fertilizer plant at Chanderiya is progressing as per timelines and will be commissioned by 4QFY26, which is expected to generate an EBITDA of INR4.5-5b and revenue to be in line with INR20b.
- The new roaster at Debari is on track and will be commissioned by 4QFY25
- Hindustan Zinc Alloy Plant has generated an EBITDA of INR430m for Q3FY25 with PAT of INR310m. At peak capacity, it should give INR2b of EBITDA on a full-year basis. Further, being a new company, the effective tax rate will be 17.44%.

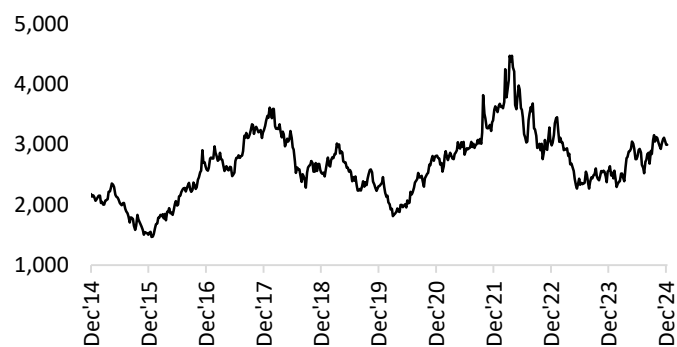
Story in charts

Exhibit 1: Zinc inventory trend (LME+SHFE)



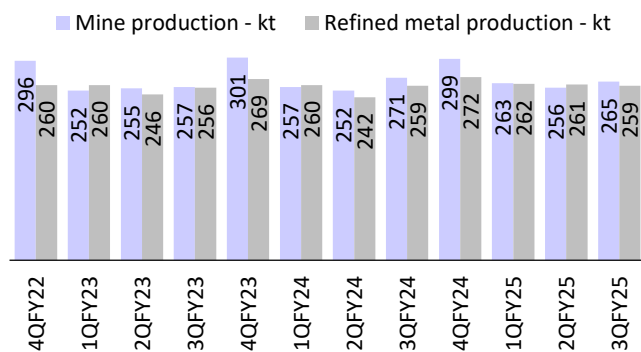
Source: MOFSL, Company

Exhibit 2: LME Zinc prices (USD/t)



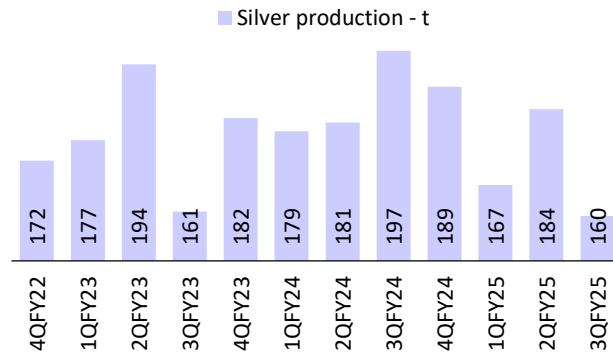
Source: MOFSL, Company

Exhibit 3: Mine production and refined metal production



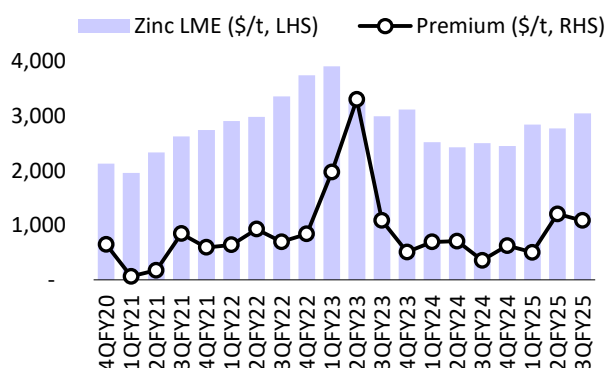
Source: MOFSL, Company

Exhibit 4: Silver production (t) declined QoQ



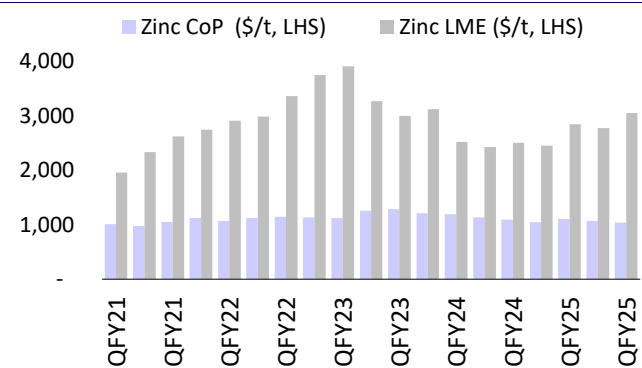
Source: MOFSL, Company

Exhibit 5: Premium sustained above USD250/t

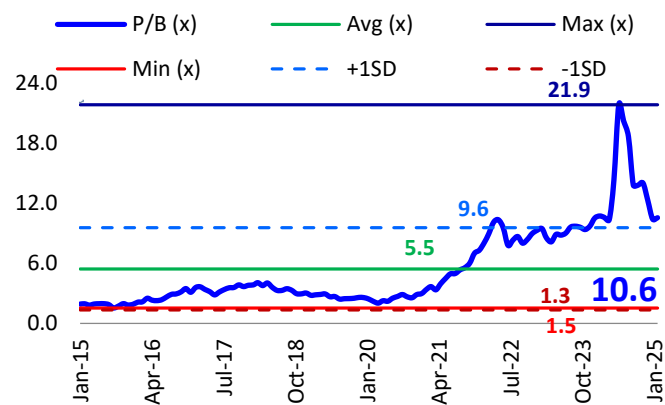


Source: MOFSL, Company

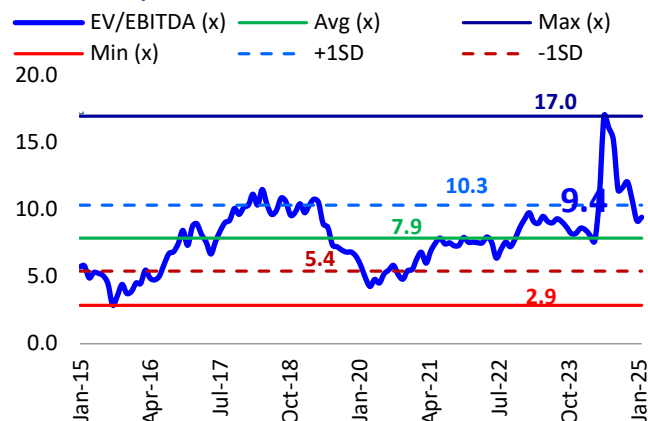
Exhibit 6: Zinc's CoP declined to USD1041/t vs. LME's at USD3055/t



Source: MOFSL, Company

Exhibit 7: : P/B ratio at elevated levels to justify high RoE

Source: MOFSL

Exhibit 8: EV/EBITDA trends

Source: MOFSL

Exhibit 9: Valuation

Valuation	UoM	FY27E
EBITDA	INR b	215
EV/EBITDA Multiple	x	8.0
Enterprise Value	INR b	1,719
Net Cash	INR b	210
Equity value	INR b	1,929
Shares outstanding	b	4.2
Target price (INR/sh; rounded-off)	INR/sh	460

Source: MOFSL

Financials and Valuation

Income Statement

(INR b)

Y/E March	FY21	FY22	FY23	FY25	FY26E	FY27E	FY27E
Net Sales	226	294	341	289	336	371	379
Total Expenses	110	132	166	153	165	162	164
EBITDA	117	162	175	137	172	208	215
DDA	25	29	33	35	36	39	41
EBIT	91	133	142	102	136	169	174
Finance cost	4	3	3	10	12	8	9
Other income	18	12	14	11	10	14	14
PBT	106	142	153	103	135	175	180
Tax	26	45	48	25	33	43	44
Rate (%)	24.5	31.4	31.2	24.7	24.7	24.7	24.7
PAT (before EO)	80	98	105	78	101	132	135
EO expense (Income)	0	1	0	0	1	0	0
Reported PAT	80	96	105	78	101	132	135
APAT	80	98	105	78	101	132	135
Change (YoY %)	17.3	22.3	7.7	-26.2	30.7	29.9	2.8

E: MOFSL estimates

Balance Sheet

(INR b)

Y/E March	FY21	FY22	FY23	FY25	FY26E	FY27E	FY27E
Share Capital	8	8	8	8	8	8	8
Reserves	315	334	121	144	118	199	284
Net Worth	323	343	129	152	127	208	292
Total Loans	65	28	119	85	83	81	79
Deferred Tax Liability	-11	9	23	23	22	22	21
Capital Employed	377	381	271	261	232	311	392
Gross Block	300	335	370	410	435	451	466
Less: Accum. Deprn.	132	161	194	229	264	304	345
Net Fixed Assets	168	174	176	182	171	147	122
Capital WIP	19	21	22	17	17	17	17
WC. Assets	259	252	156	140	123	227	334
Inventory	14	20	19	19	18	20	21
Account Receivables	4	7	4	2	5	5	5
Cash and Bank Balance	223	208	113	100	80	182	289
Loans and advances	18	17	21	19	19	19	19
WC. Liability & Prov.	69	66	84	78	78	80	81
Trade payables	15	20	21	21	21	23	23
Provisions & Others	54	46	63	57	57	57	57
Net WC. Assets	190	186	72	62	45	147	254
Appl. of Funds	377	381	271	261	232	311	392

E: MOFSL estimates

Financials and Valuation

Ratios							
Y/E March	FY21	FY22	FY23	FY25	FY26E	FY27E	FY27E
Basic (INR)							
EPS	18.9	23.1	24.9	18.4	24.0	31.2	32.0
Cash EPS	24.9	30.0	32.6	26.6	32.5	40.5	41.7
Book Value	76.5	81.1	30.6	36.0	30.0	49.1	69.2
DPS	21.3	18.0	75.5	15.0	30.0	12.0	12.0
Payout (incl. div. text)	112.7	77.9	303.5	81.7	125.0	38.5	37.4
Valuation (X)							
P/E	22.9	18.7	17.4	23.6	18.0	13.9	13.5
Cash P/E	17.4	14.4	13.3	16.3	13.3	10.7	10.4
Price/Book Value	7.4	5.6	5.4	6.3	5.4	4.7	4.3
EV/Sales	14.3	10.2	10.5	13.3	10.7	8.3	7.5
EV/EBITDA	4.9	4.2	17.4	3.5	6.9	2.8	2.8
Dividend Yield (%)	22.9	18.7	17.4	23.6	18.0	13.9	13.5
Profitability Ratios (%)							
ROE%	28.5	38.3	47.9	42.4	59.4	67.5	53.6
ROCE%	56.7	81.5	86.1	64.0	87.1	120.6	150.4
Turnover Ratios (%)							
Debtors (No. of days)	1.4	1.7	1.9	1.6	1.9	2.3	2.8
Inventory (No. of days)	7	9	4	5	5	5	5
Creditors (No. of days)	25	25	22	22	22	22	22
Leverage Ratios (%)							
Net Debt/ Equity (x)	-0.5	-0.5	0.0	(0.1)	0.0	(0.5)	(0.7)

E: MOFSL estimates

Cash Flow Statement							
Y/E March	FY21	FY22	FY23	FY25	FY26E	FY27E	FY27E
Adj EBITDA	117	162	175	137	172	208	215
Non Cash Op. Exp (Inc)	0	1	2	16	-	-	-
(Inc)/Dec in Wkg Cap	6	-12	6	(2)	(3)	(0)	(0)
Tax Paid	-18	-24	-31	(18)	(34)	(44)	(45)
CF. From Op Activity	106	127	151	133	135	164	170
(Inc)/Dec in FA & CWIP	-24	-30	-35	(40)	(25)	(15)	(15)
Free Cashflows	81	97	116	93	110	149	154
Interest & Dividend Income	15	9	14	11	10	14	14
others	-15	29	87	(5)	-	-	-
CF. From Inv Activity	-24	8	66	(34)	(15)	(1)	(1)
(Inc)/dec in Debt	65	-43	90	(34)	(2)	(2)	(2)
Interest Paid	-160	-76	-319	(63)	(127)	(51)	(51)
Dividend Paid (Incl. tax)	-2	-3	-3	(10)	(12)	(8)	(9)
Others	0	0	0	8	-	-	-
CF. From Fin Activity	-97	-123	-232	(99)	(140)	(61)	(61)
(Inc)/dec in cash	-16	13	-15	(0)	(20)	102	107
Add: Opening cash balance	19	3	16	1	1	(20)	82
Adjustments	0	0	0	-	-	-	-
Closing cash balance	3	16	1	1	(20)	82	189
Bank balance and current investments	220	192	112	100	100	100	100
Closing Balance	223	208	113	100	80	182	289

E: MOFSL estimates

Investment in securities market are subject to market risks. Read all the related documents carefully before investing.

NOTES

Explanation of Investment Rating	
Investment Rating	Expected return (over 12-month)
BUY	>=15%
SELL	< - 10%
NEUTRAL	< - 10 % to 15%
UNDER REVIEW	Rating may undergo a change
NOT RATED	We have forward looking estimates for the stock but we refrain from assigning recommendation

*In case the recommendation given by the Research Analyst is inconsistent with the investment rating legend for a continuous period of 30 days, the Research Analyst shall be within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend.

Disclosures

The following Disclosures are being made in compliance with the SEBI Research Analyst Regulations 2014 (herein after referred to as the Regulations).

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Depository participant services & distribution of various financial products. MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at <http://online.reports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf>. MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may; (a) from time to time, have a long or short position in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies) or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.

MOFSL and / or its affiliates do and seek to do business including investment banking with companies covered in its research reports. As a result, the recipients of this report should be aware that MOFSL may have a potential conflict of interest that may affect the objectivity of this report. Compensation of Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions. Details of pending Enquiry Proceedings of Motilal Oswal Financial Services Limited are available on the website at <https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx>

A graph of daily closing prices of securities is available at www.nseindia.com, www.bseindia.com. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

Regional Disclosures (outside India)

This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL & its group companies to registration or licensing requirements within such jurisdictions.

For Hong Kong:

This report is distributed in Hong Kong by Motilal Oswal capital Markets (Hong Kong) Private Limited, a licensed corporation (CE AYY-301) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) "SFO". As per SEBI (Research Analyst Regulations) 2014 Motilal Oswal Securities (SEBI Reg. No. INH000000412) has an agreement with Motilal Oswal capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

For U.S.

Motilal Oswal Financial Services Limited (MOFSL) is not a registered broker - dealer under the U.S. Securities Exchange Act of 1934, as amended (the "1934 act") and under applicable state laws in the United States. In addition MOFSL is not a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts"), and under applicable state laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOFSL, including the products and services described herein are not available to or intended for U.S. persons. This report is intended for distribution only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the Exchange Act and interpretations thereof by SEC (henceforth referred to as "major institutional investors"). This document must not be acted on or relied on by persons who are not major institutional investors. Any investment or investment activity to which this document relates is only available to major institutional investors and will be engaged in only with major institutional investors. In reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the U.S. Securities and Exchange Commission ("SEC") in order to conduct business with Institutional Investors based in the U.S., MOFSL has entered into a chaperoning agreement with a U.S. registered broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

The Research Analysts contributing to the report may not be registered/qualified as research analyst with FINRA. Such research analyst may not be associated persons of the U.S. registered broker-dealer, MOSIPL, and therefore, may not be subject to NASD rule 2711 and NYSE Rule 472 restrictions on communication with a subject company, public appearances and trading securities held by a research analyst account.

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets (Singapore) Pte. Ltd. ("MOCMSPL") (UEN 201129401Z), which is a holder of a capital markets services license and an exempt financial adviser in Singapore. This report is distributed solely to persons who (a) qualify as "institutional investors" as defined in section 4A(1)(c) of the Securities and Futures Act of Singapore ("SFA") or (b) are considered "accredited investors" as defined in section 2(1) of the Financial Advisers Regulations of Singapore read with section 4A(1)(a) of the SFA. Accordingly, if a recipient is neither an "institutional investor" nor an "accredited investor", they must immediately discontinue any use of this Report and inform MOCMSPL.

In respect of any matter arising from or in connection with the research you could contact the following representatives of MOCMSPL. In case of grievances for any of the services rendered by MOCMSPL write to grievances@motilaloswal.com.

Nainesh Rajani

Email: nainesh.rajani@motilaloswal.com

Contact: (+65) 8328 0276

Specific Disclosures

- 1 MOFSL, Research Analyst and/or his relatives does not have financial interest in the subject company, as they do not have equity holdings in the subject company.
- 2 MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- 3 MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- 4 MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- 5 Research Analyst has not served as director/officer/employee in the subject company
- 6 MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- 7 MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- 8 MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- 9 MOFSL has not received any compensation or other benefits from third party in connection with the research report
- 10 MOFSL has not engaged in market making activity for the subject company

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.
- received compensation/other benefits from the subject company in the past 12 months
- any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies)

- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.
 - Served subject company as its clients during twelve months preceding the date of distribution of the research report.
- The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report
- Above disclosures include beneficial holdings lying in demat account of MOFSL which are opened for proprietary investments only. While calculating beneficial holdings, It does not consider demat accounts which are opened in name of MOFSL for other purposes (i.e holding client securities, collaterals, error trades etc.). MOFSL also earns DP income from clients which are not considered in above disclosures.

Analyst Certification

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issues, and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations and views expressed by research analyst(s) in this report.

Terms & Conditions:

This report has been prepared by MOFSL and is meant for sole use by the recipient and not for circulation. The report and information contained herein is strictly confidential and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of MOFSL. The report is based on the facts, figures and information that are considered true, correct, reliable and accurate. The intent of this report is not recommendatory in nature. The information is obtained from publicly available media or other sources believed to be reliable. Such information has not been independently verified and no guaranty, representation of warranty, express or implied, is made as to its accuracy, completeness or correctness. All such information and opinions are subject to change without notice. The report is prepared solely for informational purpose and does not constitute an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments for the clients. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. MOFSL will not treat recipients as customers by virtue of their receiving this report.

Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. This report is not directed or intended for distribution to, or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction. Neither the Firm, nor its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information. The person accessing this information specifically agrees to exempt MOFSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOFSL or any of its affiliates or employees responsible for any such misuse and further agrees to hold MOFSL or any of its affiliates or employees free and harmless from all losses, costs, damages, expenses that may be suffered by the person accessing this information due to any errors and delays.

This report is meant for the clients of Motilal Oswal only.

Investment 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.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 - 71934200 / 71934263; www.motilaloswal.com.

Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai- 400 064. Tel No: 022 71881000. Details of Compliance Officer: Neeraj Agarwal,

Email Id: na@motilaloswal.com, Contact No.:022-40548085.

Grievance Redressal Cell:

Contact Person	Contact No.	Email ID
Ms. Hemangi Date	022 40548000 / 022 67490600	query@motilaloswal.com
Ms. Kumud Upadhyay	022 40548082	servicehead@motilaloswal.com
Mr. Ajay Menon	022 40548083	am@motilaloswal.com

Registration details of group entities: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN : 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance, Bond, NCDs and IPO products.

Customer having any query/feedback/ clarification may write to query@motilaloswal.com. In case of grievances for any of the services rendered by Motilal Oswal Financial Services Limited (MOFSL) write to grievances@motilaloswal.com, for DP to dp@grievances@motilaloswal.com.