

Market snapshot



Equities - India	Close	Chg .%	CYTD.%
Sensex	79,925	-0.5	10.6
Nifty-50	24,324	-0.4	11.9
Nifty-M 100	56,921	-0.3	23.3
Equities-Global	Close	Chg .%	CYTD.%
S&P 500	5,634	1.0	18.1
Nasdaq	18,647	1.2	24.2
FTSE 100	8,194	0.7	6.0
DAX	18,407	0.9	9.9
Hang Seng	6,251	-0.4	8.4
Nikkei 225	41,832	0.6	25.0
Commodities	Close	Chg .%	CYTD.%
Brent (US\$/Bbl)	87	1.2	12.1
Gold (\$/OZ)	2,371	0.3	14.9
Cu (US\$/MT)	9,744	0.3	15.1
Almn (US\$/MT)	2,420	-0.7	3.2
Currency	Close	Chg .%	CYTD.%
USD/INR	83.5	0.0	0.4
USD/EUR	1.1	0.2	-1.9
USD/JPY	161.7	0.2	14.6
YIELD (%)	Close	1MChg	CYTD chg
10 Yrs G-Sec	7.0	-0.01	-0.2
10 Yrs AAA Corp	7.5	-0.01	-0.3
Flows (USD b)	10-Jul	MTD	CYTD
FII	0.1	3.18	1.7
DII	0.13	3.56	29.1
Volumes (INRb)	10-Jul	MTD*	YTD*
Cash	1,595	1500	1272
F&O	5,42,621	3,62,711	3,77,675

Note: Flows, MTD includes provisional numbers.

*Average



Today's top research idea

Hindalco: Capacity expansion to drive next leg of growth; Novelis to witness further margin gains

- ❖ Hindalco (HNDL) is undertaking a capex of ~USD6.9b (USD4.9b for Novelis and USD2b for HNDL) to expand capacities for several products across multiple locations over the next three to five years. This capex plan will augment its capacity across USA (FRP and recycling mill), Utkal (alumina debottlenecking), Aditya (can recycling and battery foil mill) and Silvassa (extrusion), among others.
- ❖ We believe the upcoming 600kt facility at Bay Minette (Alabama, USA) will act as a proxy for the growing demand for beverage cans and auto-grade aluminum sheets in North America. The company has fully contracted its beverage packing facility at Bay Minette. Novelis has witnessed margin improvement in the last few quarters, which is likely to continue in FY25.
- ❖ HNDL has robust integrated operations and with rising base metal prices, we believe the long-term outlook remains positive. The capacity expansions would position HNDL well to capitalize on growth opportunities. We reiterate our BUY rating with our SOTP-based TP of INR790.



Research covered

Cos/Sector	Key Highlights
Hindalco	Capacity expansion to drive next leg of growth; Novelis to witness further margin gains
Capital Market Monthly	Overall ADTO and NSE active clients rise sequentially



Chart of the Day: Hindalco (Capacity expansion to drive next leg of growth)

Novelis EBITDA (USD/t) likely to reach 554/t



Source: MOFSL, Company

Research Team (Gautam.Duggad@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.



Kindly click on textbox for the detailed news link

1

SCI, NMDC Steel at advanced stages of strategic sale, await nod from PMO

However, according to a senior official, strategic stake sales in government companies are not as easy now, given strong opposition and the compulsions of coalition politics

2

Aavas Financiers: EQT, CVC Capital & Bain in the fray as promoters Kedaara, Partners Group explore full exit

In February 2016, a Kedaara-Partners JV acquired Aavas Financiers Ltd. Incidentally, both the promoters, Kedaara Capital and Partners Group, have diluted part stake earlier in the year via the block deal route.

3

Powell stresses message that US job market is cooling, a possible signal of coming rate cut

"We're not just an inflation-targeting central bank," Powell told the House Financial Services Committee on the second of two days of semi-annual testimony to Congress.

4

Seafood exporters in troubled waters as shipping freight rates see 5x surge

India's seafood export industry, valued at \$7.26 billion, is facing significant challenges due to a sharp rise in shipping freight rates.

5

Scotch, premium foreign whiskies see fall in sales growth as Indians go for local whisky

To be sure, within imported whiskey, premium and super-premium brands have still performed well but value or entry level brands, which mostly compete with Indian malts, took a hit.

6

Textile industry on recovery path as domestic demand improves

As per official data on Niryat Portal, the export of readymade garments, cotton yarn and fabrics for the period between October 2023 to May 2024 stood at \$17.9 billion compared to \$17.5 billion for the same period in the previous year, bucking a declining trend

7

Govt plans PLI scheme for underground mining equipment

Currently, Coal India imports high-capacity equipment such as electric rope shovels, hydraulic shovels, dumpers, crawler dozers, drills, motor graders, and front-end loaders wheel dozers to conduct its mining operations.



Hindalco

BSE SENSEX
79,925

S&P CNX
24,324

CMP: INR693

TP: INR800 (+15%)

Buy



Stock Info

Bloomberg	HNDL IN
Equity Shares (m)	2247
M.Cap.(INRb)/(USDb)	1558 / 18.7
52-Week Range (INR)	715 / 422
1, 6, 12 Rel. Per (%)	-2/7/36
12M Avg Val (INR M)	4050
Free float (%)	65.4

Financials Snapshot (INR b)

Y/E MARCH	2024	2025E	2026E
Sales	2,160	2,369	2,456
EBITDA	239	276	286
Adj. PAT	101	136	141
EBITDA Margin (%)	11	12	12
Cons. Adj. EPS (INR)	46	61	64
EPS Gr. (%)	1	34	4
BV/Sh. (INR)	361	416	473

Ratios

Net D:E	0.5	0.4	0.3
RoE (%)	13.6	15.8	14.3
RoCE (%)	10.8	12.3	12.0
Payout (%)	0.0	9.8	9.4

Valuations

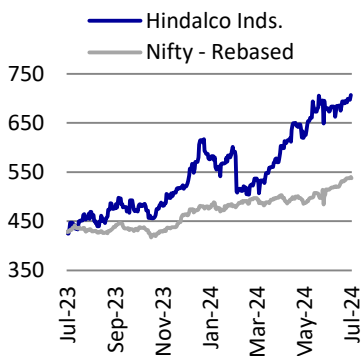
P/E (x)	15.2	11.3	10.9
P/BV (x)	1.9	1.7	1.5
EV/EBITDA(x)	8.0	6.9	6.5
Div. Yield (%)	0.0	0.9	0.9
FCF Yield (%)	5.4	2.8	4.2

Shareholding pattern (%)

As On	Mar-24	Dec-23	Mar-23
Promoter	34.6	34.6	34.6
DII	26.0	25.5	26.5
FII	31.0	32.1	30.3
Others	8.4	7.9	8.6

FII Includes depository receipts

Stock Performance (1-year)



Capacity expansion to drive next leg of growth; Novelis to witness further margin gains

- Hindalco (HNDL) is undertaking a capex of ~USD6.9b (USD4.9b for Novelis and USD2b for HNDL) to expand capacities for several products across multiple locations over the next three to five years. This capex plan will augment its capacity across USA (FRP and recycling mill), Utkal (alumina debottlenecking), Aditya (can recycling and battery foil mill) and Silvassa (extrusion), among others.
- For FY25, the management expects to incur a capex of ~INR60b in India for: 1) mines expansion; 2) alumina refinery; 3) FRP-II expansion (battery and copper foil, copper tube, copper e-waste recycling foil); 4) smelter expansion; and 5) aluminum power work.
- We believe the upcoming 600kt facility at Bay Minette (Alabama, USA) will act as a proxy for the growing demand for beverage cans and auto-grade aluminum sheets in North America. The company has fully contracted its beverage packing facility at Bay Minette. Novelis has witnessed margin improvement in the last few quarters, which is likely to continue in FY25.
- In India, we believe HNDL is adding downstream capacities at the right time to capture growth opportunities in the domestic market. HNDL's increased focus on VAP for niche segments in aluminum and copper will help the company improve its domestic EBITDA margins to +10% by FY26E.
- HNDL has robust integrated operations and with rising base metal prices, we believe the long-term outlook remains positive. The capacity expansions would position HNDL well to capitalize on growth opportunities. We reiterate our BUY rating with our SOTP-based TP of INR790. **Key Risk:** Any further extension in the capex timeline, along with an increase in capex, will add pressure on the cash flow.

HNDL on track to enhance its capacities

- HNDL has undertaken a ~USD6.9b (revised upward from USD4.6b) multi locational-multi product capex over the next three to five years. Around 70% (USD4.9b) of the total capex is earmarked for Novelis and the rest for enhancing the domestic aluminum and copper capacities.
- This capex will help HNDL shift its focus from being a core metal manufacturer to a metal-solution provider.
- The management aims to upscale the share of low-carbon sources to 30% for aluminum production by 2030.

Bay Minette facility

- Novelis's capex of ~USD4.1b to set up its Bay Minette facility for augmenting 600kt of FRP capacity is progressing well. This facility will cater to North America's beverage can and auto-grade aluminum sheet demand.
- The expansion plan has been delayed by a year and the facility is now likely to be commissioned in 2HCY26, and would take 18-24months to fully ramp up. Therefore, we believe any significant incremental volumes will start in FY27-28.

- Novelis has fully contracted its entire beverage packing facility to marquee customers. In the near term, we believe Novelis is on track to see margin improvement, aided by portfolio optimization, higher recycling capacities and favorable market dynamics.

Indian operations

- HNDL has earmarked ~USD2b for domestic capex with a strong focus on downstream projects for improving VAP share.
- It is also setting up a 25kt battery foil facility in Odisha with a capex of ~INR8b to cater to the growing demand from the domestic EV segment.
- The company has also identified several projects for future expansion across upstream, downstream, copper vertical, specialty chemicals and energy with an outlay of USD2.3b by FY28E.

Other international geographies

- HNDL is investing USD365m in Guthrie, US, to set up a state-of-the-art automotive recycling and casting facility. This is the second-largest capex undertaken by Novelis and the project is progressing well. The facility is on schedule to be commissioned by 1QFY25 and will focus on the recycling of pre- and post-consumer auto scrap.
- The higher recycling content as a part of production will help Novelis improve margins going forward, along with a reduction in carbon emissions.
- Novelis is also undertaking multiple debottlenecking projects across geographies, which will yield high returns through either additional capacity or cost reduction initiatives.
- Novelis has a current rolling capacity of ~4.2mt, which will increase to 4.5mt after the completion of all the debottlenecking projects, and to over 5.1mt after the completion of the Bay Minette facility.
- The management expects a capex of ~USD1.4-2.1b (60-65% for Bay Minette) for FY25 (overall ~USD3.4b capex outflow expected over FY25-26E).

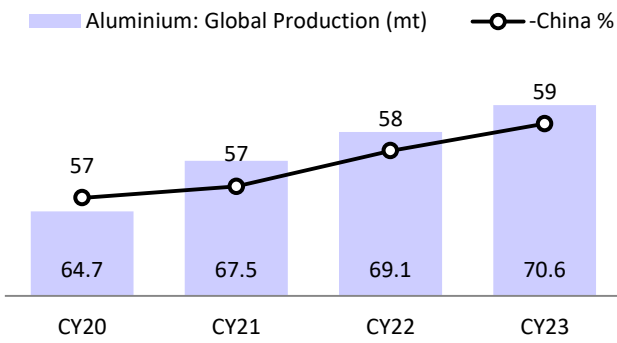
Coal linkages to drive cost synergies

- HNDL's total coal requirement is ~16.2mt, which is currently fulfilled either by its linkages (~60%), e-auctions (~36%) or own mines/imports.
- Chakla mine, which has PRC of ~4.5mt, is expected to come on stream by 3QCY25 (earlier Dec'24). It was delayed due to a delay in forest clearance.
- Chakla mine is expected to start its production in FY25E and would exit FY25 with a production of ~1mt. The mine will reduce the company's dependency on procurement of coal from external sources.
- HNDL is still awaiting allotment amid land acquisition issues for 10mt Meenakshi mine and as a back-up plan, HNDL acquired Meenakshi West mine at a ~33% premium, which has PRC of 6-7mt.
- The management aims to increase the share of low-carbon sources to 30% for aluminum production by 2030.

Valuation and view: reiterate BUY

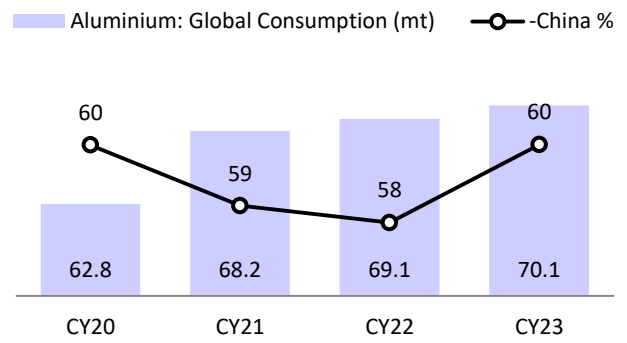
- The company’s Indian operation is net debt free and HNDL’s consolidated ND/EBITDA ratio improved to 1.21x as on Mar’24 vs. 1.43x in Dec’23.
- Though the ongoing capex at Novelis would position HNDL as the global leader in beverage cans and automotive FRP segments, any further extension in the capex timeline, along with an increase in capex outlay, will put pressure on the cash flow of the company. Its capex would be a key monitorable for any further cost revisions or delays.
- Volume growth across geographies is expected to remain stable going forward and HNDL has already secured long-term contracts from marquee customers for its Bay Minette facility, which provides future revenue visibility. Therefore, with favorable pricing and muted costs, Novelis will see its EBITDA/t improve further in the mid-to-long term.
- **We reiterate our BUY rating on HNDL with our SOTP-based TP of INR800. The stock is trading at 6.5x FY26E EV/EBITDA and 1.5x FY26E P/B.**

Global primary aluminum production



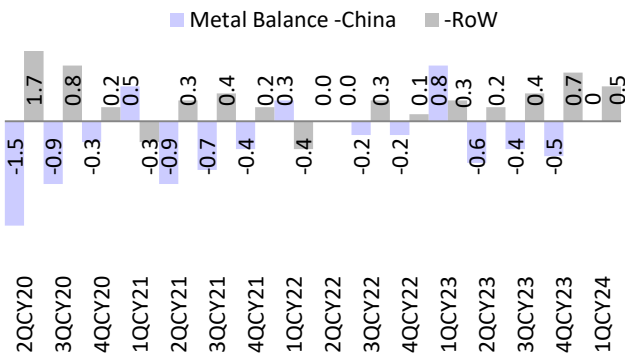
Source: MOFSL, Company

Global primary aluminum consumption



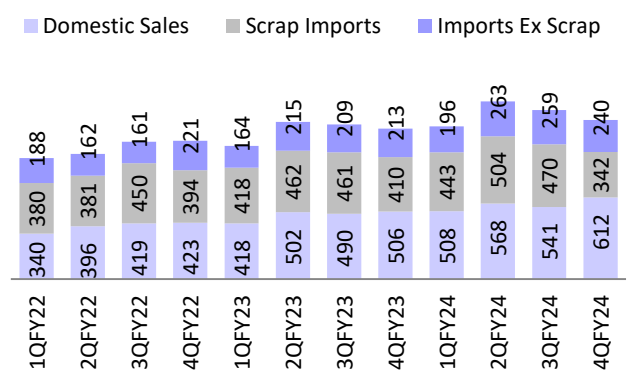
Source: MOFSL, Company

Quarterly metal balance - Aluminum



Source: MOFSL, Company

Domestic aluminum demand - Quarterly



Source: MOFSL, Company



Capital Market Monthly

Capital Market Tracker

Key statistics

Parameter	Jun' 24	YoY (%)	MoM (%)
Demat A/c (m)	162	35	3
NSE Active (m)	44	43	3
ADTO (INR t)			
Overall	499	92	15
- F&O	497	92	15
- Cash (INR b)	1,649	144	38
- Retail Cash (INR b)	646	141	33

Source: MOFSL, NSE, BSE, CDSL, NSDL

Overall ADTO and NSE active clients rise sequentially

Demat additions surge MoM; CDSL's demat market share jumps QoQ

Overall ADTO increased ~15% MoM to INR499t, with F&O ADTO rising ~15% and Cash ADTO increasing ~37.5% MoM. Retail cash ADTO rose ~33% MoM to INR646b. Demat additions surged ~4.2m in Jun'24 (with average monthly additions of 3.4m so far in FY25). Further, the number of active users on NSE increased to ~44.2m in Jun'24 from ~30.9m in Jun'23.

Demat additions surged 4.2m MoM

- The total number of demat accounts increased to 162m in Jun'24. The new account additions jumped 4.2m in Jun'24 (with average monthly additions of 3.4m so far in FY25).
- In Jun'24, CDSL continued to gain market share in terms of the total number of demat accounts. It raised its overall market share MoM. On a YoY basis, NSDL lost 420bp/620bp market share in total/incremental demat accounts.

NSE active clients increase sequentially

- The number of active clients on NSE increased 3.1% MoM to 44.2m in Jun'24. Currently, the top five discount brokers account for 64.4% of total NSE active clients vs. 58.2% in Jun'22.
- Performance of key discount brokers:
 - Zerodha reported a 2.1% MoM increase in its client count to 7.7m, with a 20bp decline in market share to 17.3%.
 - Groww reported a 5.4% MoM increase in its client count to 10.9m, with a 55bp rise in market share to 24.7%.
 - Angel One reported a 3.4% MoM increase in its client count to 6.7m, with a 5bp rise in market share to 15.2%.
 - Upstox clocked a 2.7% MoM increase in its client count to 2.7m, with a market share of 6%.
- Performance of key traditional brokers:
 - ICICI Sec reported a 0.8% MoM increase in its client count to 1.9m, with a 10bp drop in market share to 4.3%.
 - IIFL Sec reported a 0.6% MoM increase in its client count to 0.4m, with a 5bp dip in market share to 1%.

BSE's F&O ADTO increases MoM

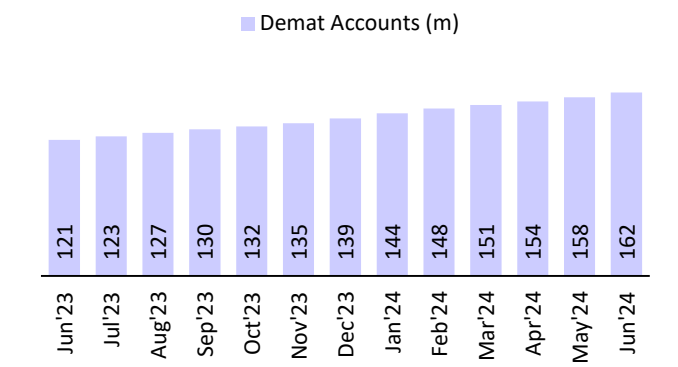
- The total ADTO increased 15% MoM (up 92% YoY) to INR499t, with F&O ADTO rising 15% and Cash ADTO increasing 37.5% MoM.
- The total ADTO for BSE increased 9% MoM (led by growth in F&O volumes), and for NSE it increased 17.1% MoM.
- On a MoM basis, the market share of BSE in the total cash T/O segment rose to ~7.2% in Jun'24 (vs. ~6.4% in May'24). BSE's market share in the options notional T/O segment declined to ~22% from ~23.2% in May'24 and for options premium T/O declined to ~8.7% from ~9.7% in May'24.

Total volumes dip 10.7% on a MoM basis

- The total volumes on MCX declined 10.7% MoM to INR36.6t in Jun'24 (vs. INR41.0t in May'24); volumes in OPTFUT declined 9.7% MoM to INR31.4t.
- Overall ADTO increased 2.7% MoM to INR1.8t; Options ADTO increased 3.9% MoM, while Futures ADTO declined 3.8% MoM.
- Options ADTO increased due to a 3%/5%/258% increase in Crude Oil/Natural Gas/Silver ADTO. On the other hand, Gold ADTO declined 46% on a MoM basis.
- Futures ADTO declined 3.8% MoM, led by a decline in Gold ADTO (24% MoM). Silver ADTO/Natural Gas ADTO increased 12%/6% MoM.

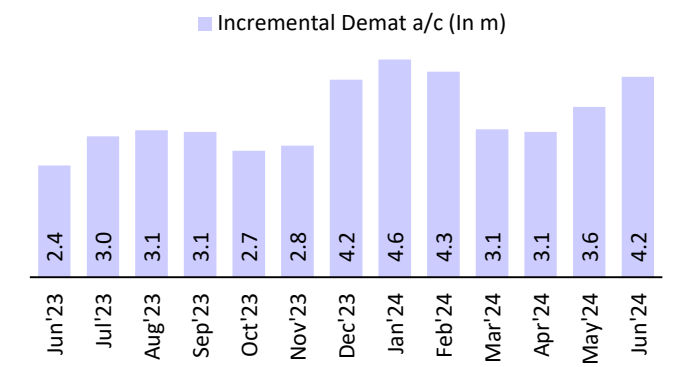
Primary market: In Jun'24, an amount of INR19.6b was raised via five IPOs.

The number of demat accounts rises to 162m



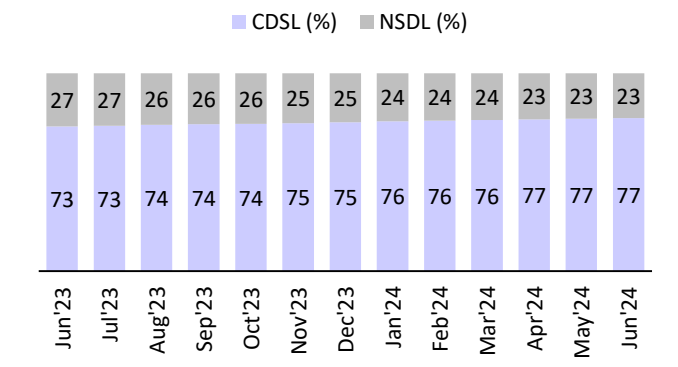
Source: MOFSL, CDSL, NSDL

Incremental demat accounts



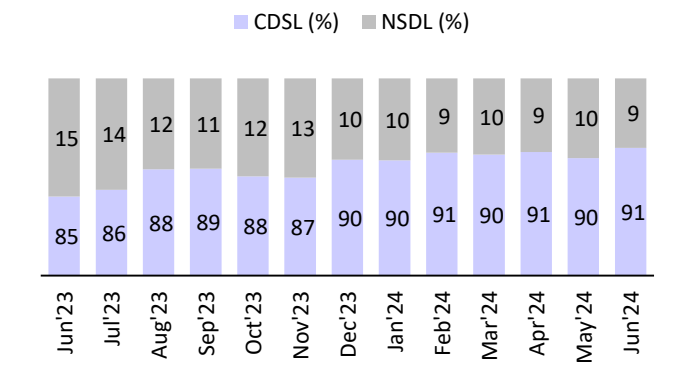
Source: MOFSL, CDSL, NSDL

Market share led by CDSL



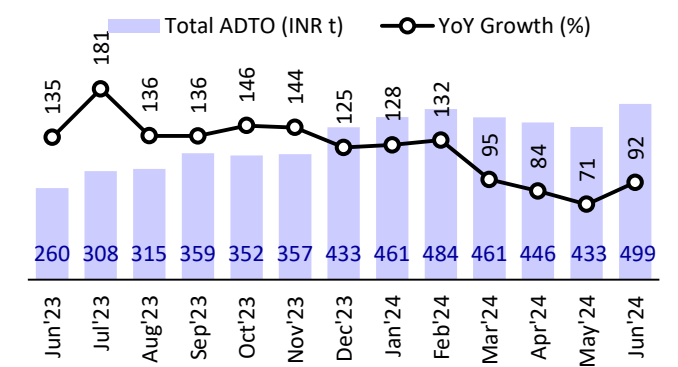
Source: MOFSL, CDSL, NSDL

Market share in incremental accounts led by CDSL



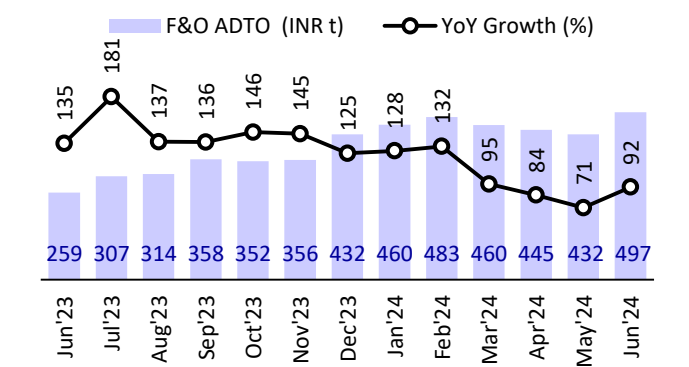
Source: MOFSL, CDSL, NSDL

Overall ADTO and growth



Source: MOFSL, NSE, BSE

F&O ADTO and growth



Source: MOFSL, NSE, BSE



Sayaji Hotels: Seeing good occupancy across the segments; Raof Dhanani, MD

- Occupancy levels are improving continuously
- Occupancy levels improved by 8% on you basis
- Looking forward to 10% ARR improvement by year end
- Upcoming marriage season will be beneficial for us
- Focus on in-house training & development, not seeing any major impact ahead on employee cost

[→ Read More](#)

ICRA: Post covid have seen very good growth in PV segment; Srikumar Krishnamurthy, Senior VP

- Higher base are seeing the utility vehicles are becoming the preferred choice
- Expecting that things will be normalised in upcoming months
- There is softness in demand as of now, price cuts by companies to push the volumes

[→ Read More](#)

MGL: If prices go down further, then consumer could prefer CNG vehicles more; Ashu Singhal, MD

- If excise duty is cute prices could go down by Rs. 7-8/kg which will be passed on to the consumers
- Gas under GST can still be considered, even if govt/ reduced excise duty
- APM gas allocation had reduced which led to increase in gas cost; APM gas allocation has reduced to 68% from 82% last year
- Expect EBITDA margins to be in the range of Rs. 10-12/scm
- Expect gas volume growth to be more than 7% VS 5.5% last year

[→ Read More](#)

Lloyds Metals and Energy: Fund raise proceeds will entirely be used for expansion of company's pellet plant; Balasubramanian Prabhakaran, MD

- Iron ore capacity at 10 MnT, in process of receiving clearing for capacity up to 25 MnT
- Received Mine plan approval for capacity expansion, environmental clearance expected over next 9-12 months
- Iron ore demand expected to inch higher
- Logistics cost to come down, will lead to significant cost savings for the company
- Pellet making margins to inch higher on account of capacity expansion
- Energy costs to come down, pipeline transportation to reduce cost of transportation
- With the onset of monsoon, expect supply gap to lead to steady iron ore prices

[→ Read More](#)

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

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 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 Ltd. are available on the website at <http://onlinereports.motilaloswal.com/Dormant/documents/Associate%20Details.pdf>

Details of pending Enquiry Proceedings of Motilal Oswal Financial Services Limited are available on the website at <https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx>

MOFSL, it's associates, Research Analyst or their relatives may have any financial interest in the subject company. MOFSL and/or its associates and/or Research Analyst or their relatives may have 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. MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may have any other potential conflict of interests at the time of publication of the research report or at the time of public appearance, 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.

In the past 12 months, MOFSL or any of its associates may have:

- a) received any compensation/other benefits from the subject company of this report
- b) managed or co-managed public offering of securities from subject company of this research report,
- c) received compensation for investment banking or merchant banking or brokerage services from subject company of this research report,
- d) received compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company of this research report.

- MOFSL and it's associates have not received any compensation or other benefits from the subject company or third party in connection with the research report.
- Subject Company may have been a client of MOFSL or its associates during twelve months preceding the date of distribution of the research report.
- Research Analyst may have served as director/officer/employee in the subject company.
- MOFSL and research analyst may engage in market making activity for the subject company.

MOFSL and its associate company(ies), and Research Analyst and their relatives from time to time may have:

(a) 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.

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.

To enhance transparency, MOFSL has incorporated a Disclosure of Interest Statement in this document. This should, however, not be treated as endorsement of the views expressed in the 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.

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.

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.

Disclosure of Interest Statement	Companies where there is interest
Analyst ownership of the stock	No

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 Financial Services Limited (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

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. Hemanji 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/NCDEX); 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 dpgrievances@motilaloswal.com.