

BSE SENSEX
64,949

S&P CNX
19,310

Motherson Wiring

CMP: INR60
TP: INR70 (+18%)
Buy


Bloomberg	MSUMI IN
Equity Shares (m)	4421
M.Cap.(INRb)/(USD\$)	263.7 / 3.2
52-Week Range (INR)	71 / 45
1, 6, 12 Rel. Per (%)	4/10/-3
12M Avg Val (INR M)	367
Free float (%)	38.3

Financials & Valuations (INR b)

Y/E March	FY23	FY24E	FY25E
Sales	70.6	82.6	95.0
EBITDA	7.8	10.3	12.7
Adj. PAT	4.9	6.6	8.3
EPS (INR)	1.1	1.5	1.9
EPS Gr (%)	4.3	36.3	25.5
BV/Share (INR)	3.0	3.9	4.8

Ratios

Net D/E	0.0	-0.1	-0.2
RoE (%)	39.8	43.7	43.3
RoCE (%)	42.7	47.4	48.7
Payout (%)	59.0	60.0	60.0

Valuations

P/E (x)	54.1	39.7	31.6
P/BV (x)	19.8	15.4	12.3
Div. Yield (%)	1.1	1.5	1.9
FCF Yield (%)	0.1	2.3	2.7

Capacity in place to support future growth

Stable RM costs and new plant ramp-up to drive operational turnaround

Motherson Sumi Wiring (MSWIL)'s FY23 annual report underlined its focus on leveraging the electrification trend, localization, and maintaining ROCE >40% (~42.7% pre-tax in FY23). It has consistently taken proactive approach to capacity expansion and R&D initiatives and added three new facilities this year, which are expected to reach optimum utilization in FY24. Its focus on electrification is reflected in adding a dedicated line for producing EV and high-voltage wire harnesses in Chennai. FY23 was operationally challenging for MSWIL, as its EBITDA margin contracted ~190bp YoY to 11.1%, due to multiple headwinds. However, we expect gradual recovery in the operating performance starting from 2HFY24, led by increased utilization of the new plants and stable copper prices. We believe it deserves rich valuations driven by a) its strong competitive positioning, b) top decile capital efficiencies, and c) it being a beneficiary of EVs and other mega trends. The stock trades at 39.7x/31.6x FY24E/25E EPS. We reiterate our BUY rating on the stock with a TP of INR70 (~35x Sep'25E EPS).

Well positioned to capitalize on mega trends and drive content

- **Increasing preference for SUVs:** Given the size and feature complexity, SUVs typically require more wiring harnesses than smaller vehicles. This is due to the extra wiring needed to support the advanced infotainment systems, navigation systems, and safety features in these vehicles.
- **EVs:** The development of the electric drivetrain necessitates the need for advanced technology, particularly in handling the high-voltage power required by EVs.
- **Connected cars:** As connected vehicles require more complex wiring harnesses and advanced electrical components to transmit and manage large amounts of data, the demand for advanced electrical distribution systems also increases.
- **Hybrids:** Hybrid vehicles require complex wiring systems to ensure the smooth integration and operation of the internal combustion (IC) engine and electric motor. These vehicles require more intricate and extensive wiring harnesses than traditional vehicles.
- As leading full-system wiring harness solutions provider, it is uniquely positioned to capitalize on these industry trends. Its pan-India footprint and strong support from our parent companies, SWS and SAMIL, allows it to support customers.

Added three new facilities to meet customer demand

- Adhering to its principle, the company initiates its expansion plans once it achieves ~80% utilization of its existing capabilities. For new orders, it would start looking at new capacity enhancement almost a 1-1.5 years before the predicted date of supply.
- The capex investments are aligned with its long-term strategy and growth projects on hand. For the orders in hand, it has capacity in place.

Jinesh Gandhi – Research Analyst (Jinesh@MotilalOswal.com)

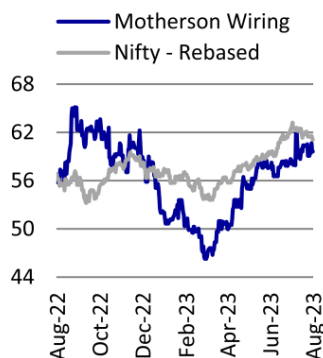
Research Analyst: Amber Shukla (Amber.Shukla@MotilalOswal.com) | Aniket Desai (Aniket.Desai@MotilalOswal.com)

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.

Shareholding pattern (%)

As On	Jun-23	Mar-23	Jun-22
Promoter	61.7	61.7	61.7
DII	18.0	19.0	20.8
FII	11.0	9.9	8.6
Others	9.3	9.3	8.9

Stock Performance (1-year)

- In FY23, it incurred a capex of INR1.98b (vs. INR1b in FY22), or ~2.8% of revenue in FY23 (vs. 1.8% in FY22).
- Out of the overall FY23 capex, INR0.67b was allocated toward the construction of the new plant at Chennai and Noida facility (INR0.3b incurred in FY22). The remaining INR1.3b was directed toward capacity enhancement and for facilitating other customer-centric and improvement in projects across the existing plants.
- The company has added three new facilities, taking it to total of 26 facilities strategically located across India. For these new plants, it expects to have optimum utilization early next year.

Set up a dedicated line for EV and high voltage wiring harness

- MSWIL is currently supplying to two out of top three EV models in the PV segment and two out of the top five EV models in the 2W segment.
- It has set up a dedicated line for manufacturing EV and high-voltage wiring harnesses in Chennai to cater to a diverse set of customers in the proximity.
- The company can provide unique solutions to meet the demand for high voltage systems, which is related to charging and motor operations specific to EVs. As the demand for advanced features and functionalities increases, it can provide wiring harness solutions that support these enhanced capabilities.
- In CY22, the industry saw the highest ever sales of hybrid vehicles with over 19k units. Hybrid vehicles require complex wiring systems to ensure the smooth integration and operation of IC engine and electric motor. Given its strong parentage and advanced technological capabilities, MSWIL is well-positioned to effectively fulfill these specific requirements.

Investing in R&D to develop new solutions for EVs and light weighting

- Wiring harness related R&D activities are performed by its parent company Samvardhana Motherson International Ltd (MOTHERSO) for the India region. The company has reimbursed its share of expenses to MOTHERSO.
- MSWIL is consistently dedicated to pioneering innovative solutions, primarily focusing on EVs and alternate fuels. In FY23, it invested INR299m in R&D (vs. INR264m in FY22) towards EV ecosystems, light weighting solutions, smart junction boxes and exploring alternative materials.
- It had incurred ~35%/4% of R&D in FY22/FY23 mainly to support OEMs for introducing vehicles less emission (such as Bharat VI) as well as establishing the EV ecosystem.
- As the process of wiring harness manufacturing is human intensive, it is leveraging technology to streamline and enhance various aspects of its operations. It is using Automated Guided Vehicles (AGVs), Collaborative Robots (Cobots), and Robotic Process Automation (RPA) to make manufacturing more efficient. Also, it is increasingly using technology for certain quality checks. Further, it is using the digital boards for the wiring harness assembly, which will facilitate the training process and make the transition from one model to the next much simpler.

Sustained focus on returns over margin

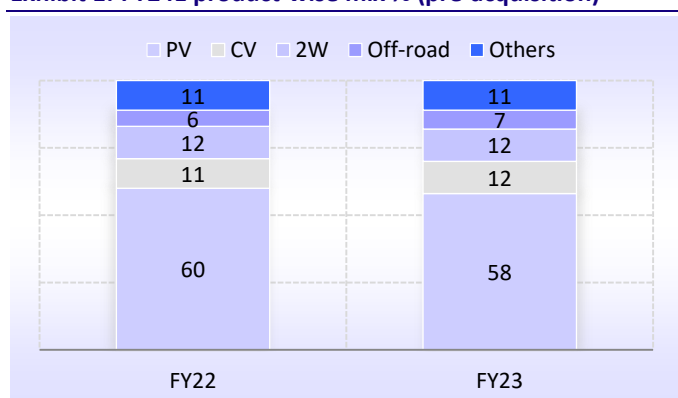
- The company reported ~25% YoY growth to INR70.6b in FY23 led by healthy demand in PV segment specially in SUVs, easing supply challenges from 2HFY23 onwards and new launches by its key customers. However, against the healthy revenue growth, EBITDA grew just ~7% YoY to INR7.8b. This, as a result, led to EBITDA margin contraction of ~190bp YoY to 11.1%.
- The margin contraction was led by multiple levers, including i) a rise in RM costs, particularly copper, ii) a ~31% growth in cost per employee, attributed to the commencement of operations in new facilities and iii) a doubling of stores and spares cost in FY23 due to incremental purchases in response to new customer launches. Adj. PAT grew ~4% YoY to INR4.9b.
- We believe most of these costs are reversible as- i) copper and other metal costs have stabilized in FY24, ii) employee cost (as % of revenue) should come down due to ramp up in new facilities and iii) operating leverage benefits should improve overall efficiencies.
- The company operates with a pass through arrangement for copper, on a quarterly lag. It has maintained an ongoing collaboration with its customers to mitigate the impact of rising costs of components. This includes efforts to offset the increase in the landed expenses of child parts. Additionally, the company is actively engaged in localizing specific components like cables & connectors, and exploring alternate options for certain parts.

Other takeaways

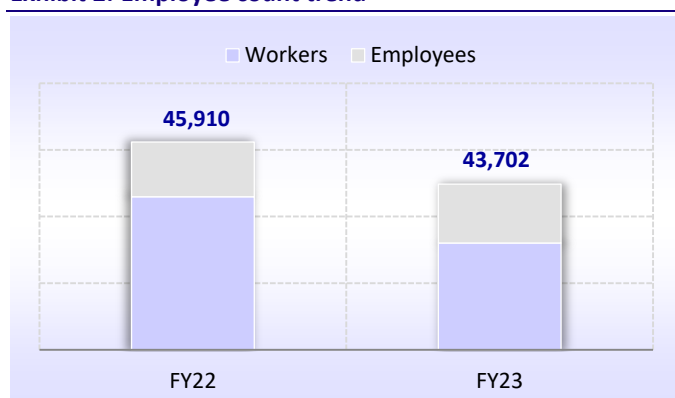
- The company has been part of 23 new launches and 17 facelift models across PV, CV, and 2W segments. Consequently, it has a full order book across vehicle segments that will further secure its position in the Indian market. The company is supplying to 10 out of 12 top-selling passenger vehicle models in India, including several premium vehicles
- The company does not hold much stock of copper as it procures the wires from its parent company SAMIL, usually for the next two to three days. Hence, there is limited inventory of wires and helps company to manage the stock levels efficiently. It relies on pass-through and effective inventory management to address the price.
- For FY23, the company effectively managed shared expenses amounting to INR451m in collaboration with MOTHERSO. These expenditures were either directly associated with MSWIL or were appropriately allocated on identifiable criteria. This allocation predominantly followed the ratio of sales between the domestic and non-domestic wiring harness businesses in India.
- The company has provided an amount of INR395m toward management fees to MOTHERSO, equivalent to the amount of royalty to Sumitomo Wiring Systems (SWS).

Valuation & view

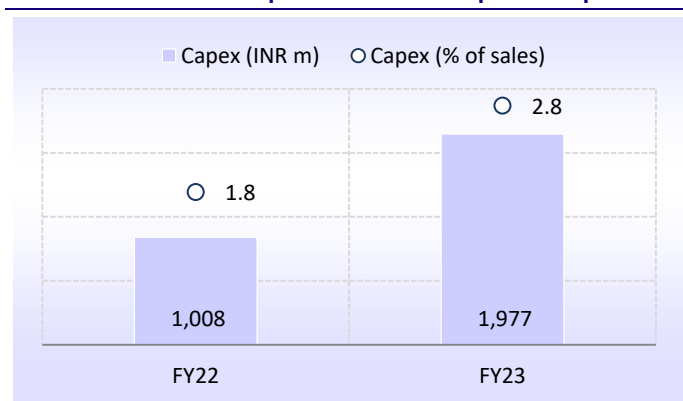
- MSWIL offers a pure play on the India automotive market (>95% of revenues from India). With over 40% market share, the company enjoys a market leadership position in the Indian wiring harness industry, with strong headroom for sustained increase in content, benefiting from mega trends witnessed in the automotive industry (premiumization, electrification, connected vehicles, etc.).
- It enjoys exceptional profitability, led by superior efficiencies and economies of scale, good margins, higher asset turn, and lower capex requirements. This provides for high capital efficiencies and superior cash-flow generation.
- We estimate MSWILs revenue/EBITDA/PAT CAGR of 16%/27%/31% over FY23-25E. This is expected to drive RoIC to 46.7% by FY25E from 37.2% in FY23. RoE would also improve to 43.7% by FY25E from 39.8% in FY23.
- We expect gradual recovery in the operating performance from 2HFY24, primarily driven by the increased production and utilization of the new plant. We believe it deserves rich valuations driven by a) its strong competitive positioning, b) top decile capital efficiencies, and c) it being a beneficiary of EVs and other mega trends in Autos. The stock trades at 39.7x/31.6x FY24E/25E EPS. We reiterate our BUY rating on the stock with a TP of INR70 (~35x Sep'25E EPS).

Exhibit 1: FY24E product-wise mix % (pre-acquisition)

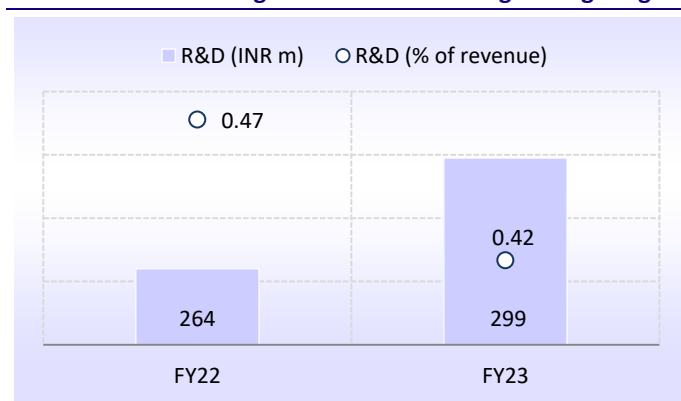
Source: Company, MOFSL

Exhibit 2: Employee count trend

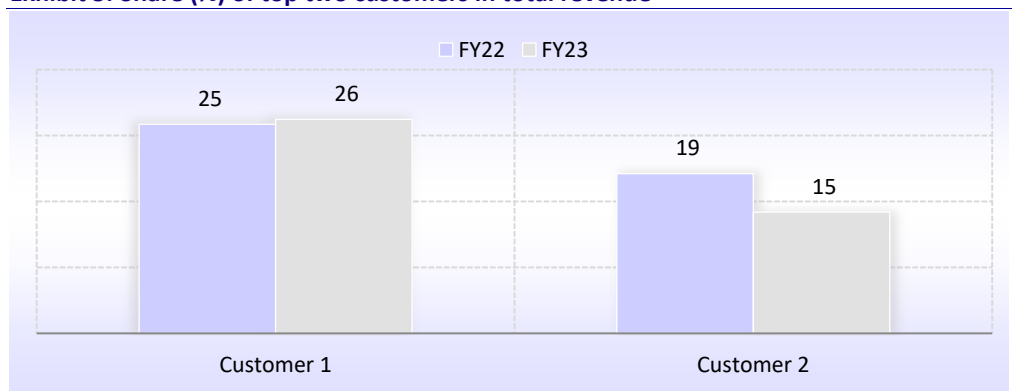
Note- FY23 data is weighted average whereas FY22 is year-end
Source: Company, MOFSL

Exhibit 3: Added 3 new plants in FY23 as a part of capex

Source: Company, MOFSL

Exhibit 4: R&D focusing on EV solution and light weighting

Source: Company, MOFSL

Exhibit 5: Share (%) of top two customers in total revenue

Source - Company, MOFSL

Exhibit 6: Transaction with related parties (SAMIL) during the year

Particulars (Amount in INR m)	FY22	FY23
Purchase of goods	23,643	28,656
% of revenue	42.0	40.6
Purchase of services	346	587
% of revenue	0.6	0.8
Payment of lease liability	564	636
% of revenue	1.0	0.9
Reimbursements made of common costs	1,544	870
% of revenue	2.7	1.2
Royalty	335	395
% of revenue	0.6	0.6

Source- Company, MOFSL

Key operating indicators

Exhibit 7: Revenue to grow 16% CAGR over FY23-25E

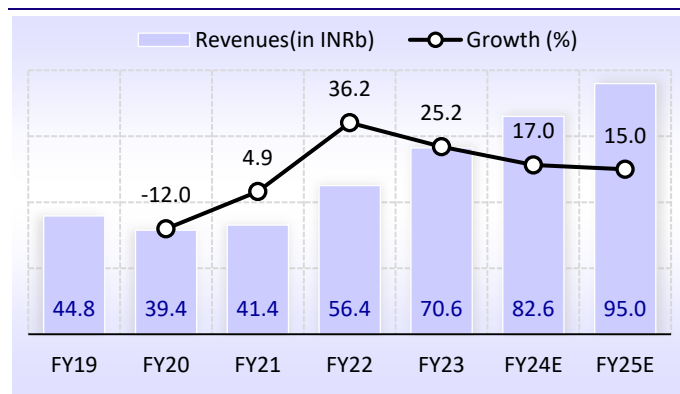


Exhibit 8: EBITDA margin to expand 120bp by FY25E

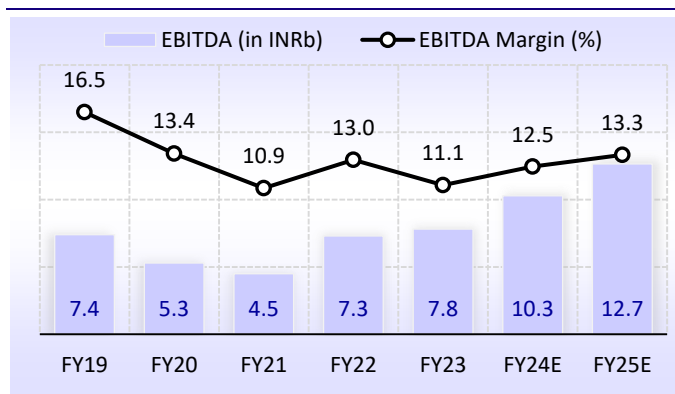


Exhibit 9: PAT to grow 21% CAGR over FY23-25E

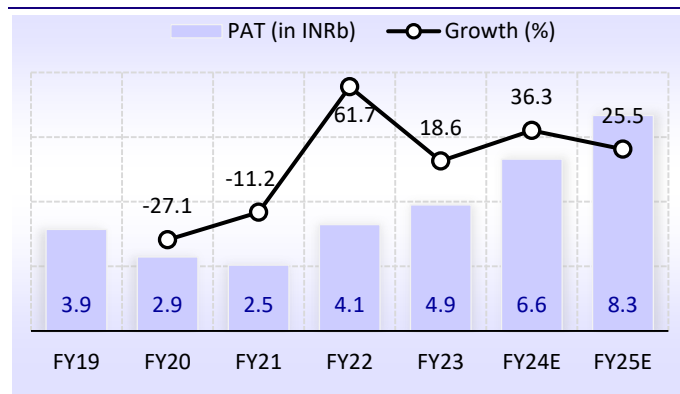
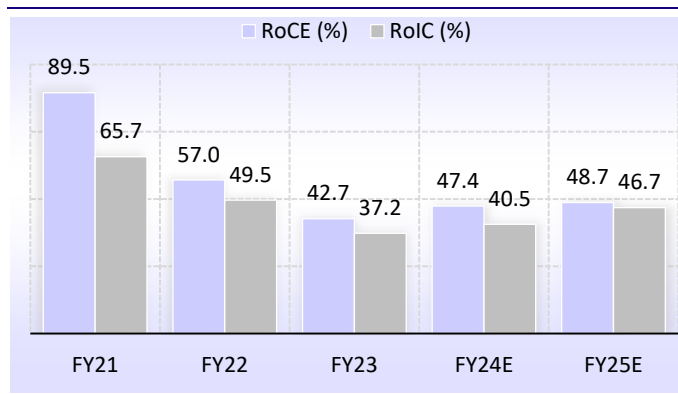


Exhibit 10: Trend in MSUMI's Return profile



Financials and valuations

Income Statement							(INR m)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Net Revenues	44,838	39,439	41,380	56,350	70,574	82,572	94,957
Change (%)	NA	-12.0	4.9	36.2	25.2	17.0	15.0
EBITDA	7,399	5,294	4,490	7,303	7,814	10,281	12,656
EBITDA Margin (%)	16.5	13.4	10.9	13.0	11.1	12.5	13.3
Depreciation	973	1,000	930	1,055	1,237	1,437	1,714
EBIT	6,426	4,294	3,560	6,248	6,578	8,844	10,942
EBIT Margin (%)	14.3	10.9	8.6	11.1	9.3	10.7	11.5
Interest Charges				285	278	300	250
Other Income				300	223	321	448
PBT bef. EO Exp.	6,426	4,236	3,472	6,263	6,522	8,865	11,140
EO Exp/(Inc)	0	0	0	654	0	0	0
PBT after EO Exp.	6,426	4,236	3,472	5,609	6,522	8,865	11,140
Total Tax	0	0	932	1,502	1,652	2,225	2,807
Tax Rate (%)	0.0	0.0	26.8	26.8	25.3	25.1	25.2
Reported PAT	3,923	2,860	2,540	4,107	4,871	6,640	8,333
Adjusted PAT	3,923	2,860	2,540	4,670	4,871	6,640	8,333
Change (%)	NA	-27.1	-11.2	83.9	4.3	36.3	25.5
Margin (%)	8.7	7.3	6.1	8.3	6.9	8.0	8.8

Balance Sheet						(INR m)
Y/E March	FY21	FY22	FY23	FY24E	FY25E	
Equity Share Capital	3,158	3,158	4,421	4,421	4,421	
Total Reserves	3,942	7,988	8,884	12,650	16,998	
Net Worth	7,100	11,146	13,305	17,071	21,419	
Minority Interest						
Total Loans	820	193	818	818	818	
Other non-current liabilities	640	3,059	3,348	3,348	3,348	
Capital Employed	8,560	14,397	17,471	21,237	25,586	
Net Fixed Assets	1,699	4,321	5,792	5,625	5,411	
Capital WIP	1	323	270	300	300	
Other non-current assets	260	928	1,259	1,376	1,495	
Current Assets	15,670	19,642	21,244	27,467	34,001	
Inventory	7,990	9,600	12,096	14,026	16,130	
Account Receivables	6,750	6,593	8,004	9,501	10,927	
Cash and Bank Balance	370	2,933	368	3,032	5,901	
Other current & fin.assets	560	516	776	908	1,044	
Current Liabilities	9,330	11,220	11,506	13,942	16,033	
Creditors	7,520	9,129	9,257	11,311	13,008	
Other current & fin.liabilities	1,810	2,091	2,249	2,631	3,025	
Net Current Assets	6,340	8,422	9,738	13,525	17,968	
Deferred Tax assets	260	403	411	411	411	
Appl. of Funds	8,560	14,397	17,471	21,237	25,586	

E: MOFSL Estimates

Financials and valuations

Ratios

Y/E March	FY21	FY22	FY23	FY24E	FY25E
Basic (INR)					
EPS	0.6	1.1	1.1	1.5	1.9
Cash EPS	0.8	1.3	1.4	1.8	2.3
BV/Share	1.6	2.5	3.0	3.9	4.8
DPS		0.61	0.65	0.90	1.13
Payout (%)		65.4	59.0	60.0	60.0
Valuation (x)					
P/E	103.8	56.5	54.1	39.7	31.6
Cash P/E	76.0	46.1	43.2	32.6	26.2
P/BV	37.1	23.7	19.8	15.4	12.3
EV/Sales	4.6	3.3	3.7	3.2	2.7
EV/EBITDA	42.0	25.4	33.8	25.4	20.4
Dividend Yield (%)		1.0	1.1	1.5	1.9
FCF Yield (%)		2.1	0.1	2.3	2.7
Return Ratios (%)					
RoE	35.8	51.2	39.8	43.7	43.3
RoCE (pre-tax)	89.5	57.0	42.7	47.4	48.7
RoIC	65.7	49.5	37.2	40.5	46.7
Working Capital Ratios					
Asset Turnover (x)	4.8	3.9	4.0	3.9	3.7
Inventory (Days)	70	62	63	62	62
Debtor (Days)	60	43	41	42	42
Creditor (Days)	66	59	48	50	50
Leverage Ratio (x)					
Current Ratio	1.7	1.8	1.8	2.0	2.1
Net Debt/Equity	0.1	-0.2	0.0	-0.1	-0.2

Cash Flow Statement

Y/E March	FY21	FY22	FY23	FY24E	FY25E
(INR m)					
OP/(Loss) before Tax	5,320	6,263	6,522	8,865	11,140
Depreciation	374	1,055	1,237	1,437	1,714
Interest & Finance Charges	73	285	278	300	250
Direct Taxes Paid	-1,142	-1,962	-1,775	-2,225	-2,807
(Inc)/Dec in WC	-4,454	44	-3,925	-1,123	-1,574
Others	-57	-23	-102		
CF from Operations	114	5,662	2,236	7,254	8,723
EO item	0	-654	0		
CF from Operating incl EO	114	5,008	2,236	7,254	8,723
(Inc)/Dec in FA	-281	-1,008	-1,977	-1,300	-1,500
Free Cash Flow	-168	3,999	259	5,954	7,223
(Pur)/Sale of Investments					
Others	0	0	40	-116	-120
CF from Investments	-281	-1,008	-1,937	-1,416	-1,620
Issue of Shares				0	0
Inc/(Dec) in Debt	292	-1,129	78	0	0
Interest Paid	-43	-310	-272	-300	-250
Dividend Paid	0	0	-2,677	-2,874	-3,984
Others	1	0	0		
CF from Fin. Activity	250	-1,439	-2,871	-3,174	-4,234
Inc/Dec of Cash	82	2,561	-2,572	2,664	2,869
Opening Balance	290	373	2,933	361	3,025
Closing Balance	373	2,933	361	3,025	5,894

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 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") (Co. Reg. NO. 201129401Z) which is a holder of a capital markets services license and an exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisors Act (CAP 110) provided to MOCMSPL by Monetary Authority of Singapore. Persons in Singapore should contact MOCMSPL in respect of any matter arising from, or in connection with this report/publication/communication. This report is distributed solely to persons who qualify as "Institutional Investors", of which some of whom may consist of "accredited" institutional investors as defined in section 4A(1) of the Securities and Futures Act, Chapter 289 of Singapore ("the SFA"). Accordingly, if a Singapore person is not or ceases to be such an institutional investor, such Singapore Person must immediately discontinue any use of this Report and inform MOCMSPL.

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, not 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/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.