

Exide

Estimate changes	←
TP change	←
Rating change	←

Bloomberg	EXID IN
Equity Shares (m)	850
M.Cap.(INRb)/(USDb)	126.6 / 1.7
52-Week Range (INR)	203 / 139
1, 6, 12 Rel. Per (%)	1/-10/-33
12M Avg Val (INR M)	628

Financials & Valuations (INR b)

		- 1	
Y/E MARCH	FY22	FY23E	FY24E
Net Sales	123.8	140.7	154.0
EBITDA	14.0	15.9	19.0
Adj. PAT	8.4	9.0	11.0
Adj. EPS (INR)	9.9	10.6	12.9
EPS Gr. (%)	10.7	7.6	21.6
BV/Sh. (INR)	124.8	132.2	141.9
Ratio			
RoE (%)	7.9	8.0	9.1
RoCE (%)	10.0	8.5	9.6
Payout (%)	32.4	30.1	24.8
Valuations			
P/E (x)	15.1	14.0	11.5
P/BV (x)	1.2	1.1	1.0
Div Yield (%)	2.1	2.1	2.1
FCF Yield (%)	-4.5	8.6	7.7

Shareholding pattern (%)

As On	Mar-22	Dec-21	Mar-21		
Promoter	46.0	46.0	46.0		
DII	19.2	20.6	24.6		
FII	10.1	9.6	12.0		
Others	24.7	23.8	17.5		
FII Includes depository receipts					

CMP: INR149 TP: INR190 (+28%) Buy

Mixed bag; strong revenue growth, but margin weak

To invest in Li-ion cell manufacturing without PLI incentive

- EXID's performance was impacted by higher RM cost inflation, but the same was partially offset by operating leverage. We expect a sustained recovery, led by a recovery in OEMs and aftermarket growth, with a shift to the organized from the unorganized segment. The company is setting up a greenfield multi-gigawatt hour Li-ion manufacturing facility, based on its technical agreement with SVOLT, despite failing to secure a PLI incentive.
- We maintain our EPS estimates, but have reduced our target multiple to 12x from 14x to account for the increasing threat posed by EVs and lack of PLI incentive in its Li-ion cell manufacturing facility, which will put it at a relative disadvantage.

Operating leverage partially offsets cost inflation

- Revenue grew 16% YoY to INR34.1b, while EBITDA/PAT fell 15%/ 8% YoY to INR3.5b/INR2.25b in 4QFY22. The same grew 23%/3%/ 11% YoY in FY22.
- Of the 16%/23% YoY growth in 4Q/FY22, price hikes contributed 7-8%/5-6% to this growth.
- Gross margin contracted by 310bp QoQ (-630bp YoY) to 28% (est. 31%) due to RM cost inflation in lead and other input cost. The mix would have deteriorated with a recovery in OEM volumes.
- EBITDA margin contracted by 380bp YoY (-140bp QoQ) to 10.2% (est. 11.1%) on lower gross margin, but was offset by operating leverage. EBITDA declined by 15% YoY to INR3.5b (in line).
- Adjusted PAT fell 8% YoY and 10% QoQ to ~INR2.25b (est. ~INR1.9b).
- There was an extraordinary gain of INR47b on account of the sale of its Insurance business.
- CFO fell to INR122m in FY22, impacted by weaker operating performance as well as an adverse working capital swing (of INR6.6b). Capex stood at INR5.8b in FY22 (v/s INR3.4b in FY21). FCFF stood at a negative INR5.7b v/s a positive INR10.75b in FY21.

Highlights from the management interaction

- EXID has set up a wholly-owned subsidiary Exide Energy Solutions, which will house its greenfield multi-gigawatt hour Li-ion cell manufacturing facility. It is in advanced talks for procuring a land parcel in Karnataka.
- Margin was impacted by high RM cost inflation, and fuel and freight costs.
- Margin is expected to improve on the back of various initiatives in digitization and Industry 4.0.
- Volumes in the Automotive vertical have grown in double-digits, led by initiatives in both trade sales and services.

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

Research Analyst: Vipul Agrawal, CFA (Vipul.Agrawal@MotilalOswal.com) / Aniket Desai (Aniket.Desai@motilaloswal.com)

MOTILAL OSWAL Exide

- Demand for Industrial UPS batteries continues to remain strong as vis-à-vis 4QFY21. Solar, Railways, and Infrastructure verticals have registered excellent YoY volume growth in 4QFY22.
- Exports have grown by 50% in FY22. EXID is expected to boost its export presence in both the Automotive and Industrial verticals.

Valuation and view

- EXID will see a lower impact of lead price inflation given its captive smelter. It should have a better mix, led by a higher aftermarket share. We prefer EXID as it offers a superior risk-reward, given its market leadership, technological alliances, backward integration, better mix, and a strong Balance Sheet after the sale of its Insurance business to support the new Li-ion cell plant.
- Lithium batteries pose a risk to 2W and 3W segments (~15% of revenue) and the Industrial segment (~26%).\
- The stock trades at 14x/11.5x FY23E/FY24E standalone EPS. Valuing it ~12x standalone Mar'24E EPS and INR34/share for its stake in HDFCLIFE (at a 40% holding company discount), we maintain our Buy rating with a TP of ~INR190 per share.

Y/E March		FY2	21			FY2	22		FY21	FY22	FY22E
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	_		4QE
Net Sales	15,476	27,534	28,010	29,388	24,864	32,900	31,967	34,086	1,00,408	1,23,817	31,243
Growth YoY (%)	-44.3	5.5	16.2	43.0	60.7	19.5	14.1	16.0	1.9	23.3	6.3
RM (%)	68.8	65.0	64.1	65.7	68.5	67.2	69.0	72.0	65.5	69.3	69.0
Employee cost (%)	9.0	6.9	7.4	6.3	7.4	6.5	6.4	5.6	7.2	6.4	6.7
Other Exp. (%)	12.6	13.9	14.1	14.0	13.6	13.8	13.0	12.2	13.8	13.1	13.3
EBITDA	1,485	3,920	4,028	4,123	2,606	4,134	3,726	3,490	13,556	13,956	3,470
EBITDA Margin (%)	9.6	14.2	14.4	14.0	10.5	12.6	11.7	10.2	13.5	11.3	11.1
Change (%)	-63.6	6.8	25.9	52.6	75.5	5.4	-7.5	-15.4	-0.7	3.0	-16
Non-Operating Income	70	148	201	235	152	109	150	392	654	803	161
Interest	14	63	76	85	109	86	83	106	238	384	82
Depreciation	914	953	953	974	1,009	1,012	1,041	1,065	3,794	4,126	1,045
PBT after EO Exp.	627	3,052	3,200	3,300	1,640	3,145	2,753	49,649	10,179	57,186	2,504
Effective Tax Rate (%)	29.9	25.0	24.6	26.0	23.5	25.5	25.8	17.0	25.5	18.1	24.3
Adj. PAT	440	2,288	2,414	2,441	1,254	2,344	2,041	2,250	7,583	8,394	1,895
Change (%)	-80.4	-3.6	13.2	45.3	185.4	2.4	-15.5	-7.8	-10.0	10.7	-22.4
Key performance indicators											
Cost break-up											
RM (%)	68.8	65.0	64.1	65.7	68.5	67.2	69.0	72.0	65.5	69.3	69.0
Employee cost (%)	9.0	6.9	7.4	6.3	7.4	6.5	6.4	5.6	7.2	6.4	6.7
Other Exp. (%)	12.6	13.9	14.1	14.0	13.6	13.8	13.0	12.2	13.8	13.1	13.3
Gross Margin (%)	31.2	35.0	35.9	34.3	31.5	32.8	31.0	28.0	34.5	30.7	31.0
EBITDA Margin (%)	9.6	14.2	14.4	14.0	10.5	12.6	11.7	10.2	13.5	11.3	11.1
EBIT Margin (%)	3.7	10.8	11.0	10.7	6.4	9.5	8.4	7.1	9.7	7.9	7.8
Lead Price (INR/Kg)	127.4	139.2	140.3	146.7	156.2	172.8	174.3	175.0	138.4	169.6	245.0
Change (%)	-2.8	-2.5	-3.6	9.9	22.6	24.1	24.3	19.3	0.1	22.5	61.3

E: MOFSL estimates

2 5 May 2022

Key exhibits

Exhibit 1: Trend in revenue and growth

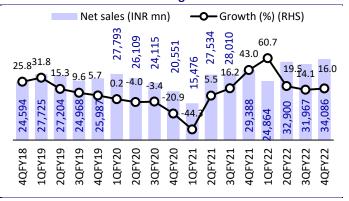


Exhibit 2: Trend in gross margin



Source: Company, MOFSL

Source: Company, MOFSL

Exhibit 3: Trend in other expense as a percentage of sales

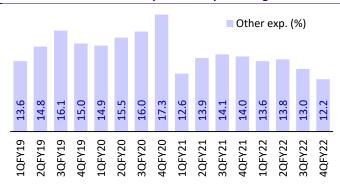
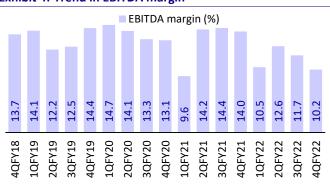


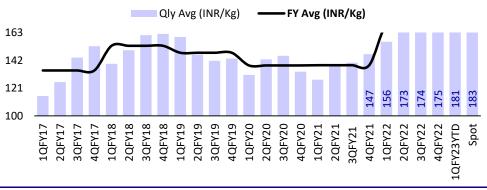
Exhibit 4: Trend in EBITDA margin



Source: Company, MOFSL

Source: Company, MOFSL

Exhibit 5: Spot lead prices to remain elevated in the near term



Source: Company, MOFSL

Valuation and view

- Industry structure remains duopoly; EXID leads: While the industry structure remains largely a duopoly, EXID is the largest lead acid battery manufacturer in India, with leadership in auto OEMs and the Replacement segment. EXID has largely caught up with competitors by investing in technology and being more proactive in customer service and plugging the gaps in its product portfolio.
- EXID to defend top position: With a demand recovery in Auto OEMs and the Industrial segment, EXID should improve its market share. OEM demand saw a

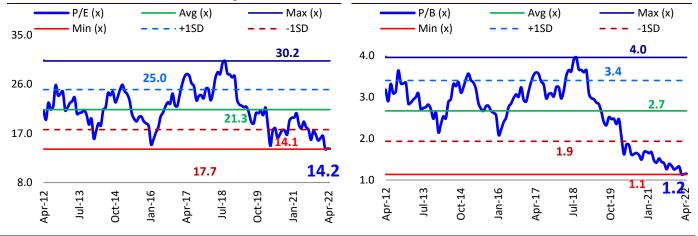
- strong recovery by the end of Jun'21, after the gradual opening of markets that were shut due to localized lockdowns imposed by states. We expect value migration from unorganized to organized players, such as EXID and AMRJ, in the Replacement segment, driven by tax reforms such as GST and lower corporate tax rates. Healthy replacement demand would lead to better capacity utilization and margins.
- Electrification of 2Ws/3Ws a risk for lead acid battery players: The government is pushing for the electrification of 3Ws/2Ws from CY23/CY25. The incentives offered by the government (FAME-2), coupled with the recently announced EV policies of the states, have brought e-2W prices almost at similar levels as its ICE counterparts. Unlike e-cars, e-2Ws/e-3Ws do not require a lead acid battery as an auxiliary battery. This would impact 15–20% of the revenue of lead acid battery players. Lithium further poses a risk to industrial batteries (~26% of revenue). Some concrete steps in this direction would potentially lead to the derating of the P/E multiple (due to decline in terminal growth).
- Stake sale in the Insurance business boosts EXID's balance sheet: Over INR60b worth of stake in HDFC Life would be at its disposal after a lock-in period of one year. With EXID possibly looking to invest in lithium-ion cell manufacturing under the PLI scheme, this monetization of the Insurance business could not have come at a better time.
- Valuation and view: We maintain our EPS estimates, but have reduced our target multiple from 14x to 12x to account for the increasing threat of EVs and lack of PLI incentive in Li-ion cell manufacturing which would put it at a relative disadvantage. EXID would see a lesser impact of lead prices inflation (v/s AMRJ) due to its captive smelter. EXID should have a better mix owing to a higher aftermarket share. We prefer EXID as it offers a superior risk-reward considering its market leadership, technological alliances, backward integration, better mix, and sizable war chest available to support the new proposed Li-ion cell plant. The stock trades at 14x/11.5x FY23E/FY24E standalone EPS. Valuing it at ~12x standalone Mar'24E EPS + INR34/share for a stake in HDFC Life Insurance (at a 40% holding company discount), we maintain our Buy rating with TP of ~INR190 per share.

Exhibit 6: Revisions to our estimates

(INR m)	R m) FY23E				FY24E	
	Rev	Old	Chg (%)	Rev	Old	Chg (%)
Net Sales	1,40,682	1,37,940	2.0	1,54,039	1,51,011	2.0
EBITDA Margin (%)	11.3	11.4	-10bp	12.3	12.4	-10bp
PAT	9,030	8,984	0.5	10,981	10,729	2.4
EPS (Rs)	10.6	10.6	0.5	12.9	12.6	2.4

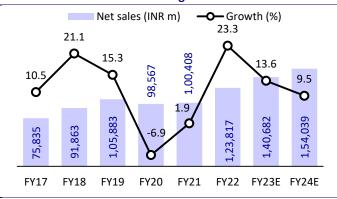
Source: MOFSL

Exhibit 7: Valuations – P/E and P/B trading bands



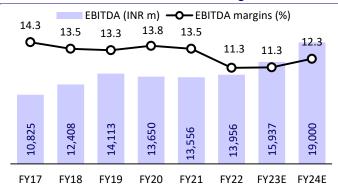
Story in charts

Exhibit 8: Trend in revenue and growth



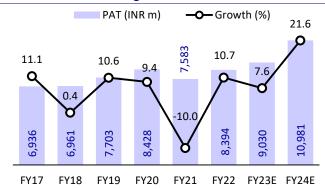
Source: Company, MOFSL

Exhibit 9: Trend in EBITDA and EBITDA margin



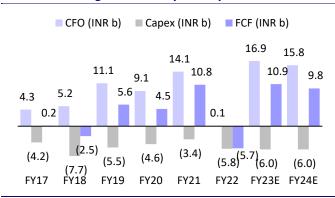
Source: Company, MOFSL

Exhibit 10: PAT and PAT growth trends



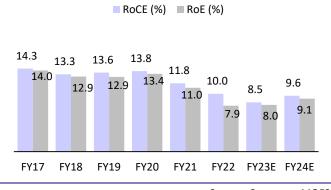
Source: Company, MOFSL

Exhibit 11: Strong FCF driven by healthy CFO



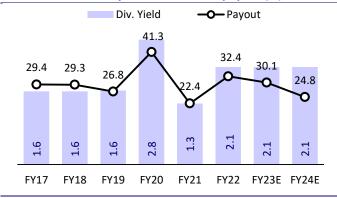
Source: Company, MOFSL

Exhibit 12: Trend in return ratios



Source: Company, MOFSL

Exhibit 13: Dividend yield and dividend payout (%) trends



Source: Company, MOFSL

MOTILAL OSWAL Exide

Financials and valuations

Income Statement								(INR m)
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Net Sales	75,835	91,863	1,05,883	98,567	1,00,408	1,23,817	1,40,682	1,54,039
Change (%)	10.7	21.1	15.3	-6.9	1.9	23.3	13.6	9.5
Total Expenditure	65,010	79,456	91,770	84,916	86,852	1,09,860	1,24,745	1,35,039
EBITDA	10,825	12,408	14,113	13,651	13,557	13,957	15,938	19,001
EBITDA Margins (%)	14.3	13.5	13.3	13.8	13.5	11.3	11.3	12.3
Change (%)	5.7	14.6	13.7	-3.3	-0.7	3.0	14.2	19.2
Depreciation	2,063	2,459	3,135	3,626	3,794	4,126	4,662	5,243
EBIT	8,762	9,948	10,978	10,025	9,763	9,831	11,275	13,758
Interest Charges	43	52	61	94	238	384	300	300
Other Income	1,039	584	385	639	654	803	1,065	1,283
EO Exp/(Inc)	-	418	(1,083)	217	-	(46,938)	-	-
PBT	9,757	10,062	12,386	10,352	10,179	57,186	12,039	14,740
Tax	2,821	3,378	3,945	2,097	2,596	10,351	3,009	3,759
Effective Rate (%)	28.9	33.6	31.9	20.3	25.5	18.1	25.0	25.5
Rep. PAT	6,936	6,683	8,440	8,255	7,583	46,835	9,030	10,981
Change (%)	11.1	-3.6	26.3	-2.2	-8.1	517.7	-80.7	21.6
Adj. PAT	6,936	6,961	7,703	8,428	7,583	8,394	9,030	10,981
Change (%)	11.1	0.4	10.6	9.4	-10.0	10.7	7.6	21.6
Balance Sheet								(INR m)
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Share Capital	850	850	850	850	850	850	850	850
Reserves	48,786	53,043	59,020	62,111	68,085	1,05,206	1,11,516	1,19,777
Net Worth	49,636	53,893	59,870	62,961	68,935	1,06,056	1,12,366	1,20,627
Loans	1,702	0	0	0	0	0	0	0
Deferred Tax Liability	1,552	1,405	1,751	1,019	771	-584	-223	220
Capital Employed	52,890	55,298	61,621	63,980	69,706	1,05,472	1,12,144	1,20,847
Application of Funds								
Gross Fixed Assets	19,058	25,588	32,069	36,039	42,740	48,173	54,297	60,297
Less: Depreciation	3,598	6,005	9,097	12,645	16,361	20,487	25,150	30,392
Net Fixed Assets	15,460	19,583	22,973	23,394	26,379	27,686	29,147	29,904
Capital WIP	1,414	2,335	2,549	2,969	2,008	3,124	3,000	3,000
Investments	26,755	19,690	21,994	21,050	30,924	60,765	67,793	67,793
Curr.Assets	24,143	32,361	34,208	35,008	36,978	41,273	43,631	54,310
Inventory	15,274	17,602	18,040	21,923	23,462	24,585	23,897	26,166
Sundry Debtors	6,217	9,434	10,812	8,154	8,875	11,925	13,490	14,771
Cash & Bank Balances	196	872	736	1,546	914	1,612	2,380	9,143
Loans & Advances	235	272	322	322	383	223	536	587
Other Current Assets	2,222	4,181	4,299	3,064	3,345	2,929	3,328	3,644
Current Liab. & Prov.	14,881	18,671	20,103	18,441	26,582	27,376	31,505	34,238
Sundry Creditors	7,679	10,787	11,428	10,361	16,483	16,175	18,379	20,124
Other Liabilities	4,556	5,091	5,539	4,478	6,856	8,009	8,479	9,285
Provisions	2,647	2,793	3,136	3,602	3,244	3,191	4,647	4,830
Net Current Assets	9,262	13,690	14,105	16,567	10,396	13,898	12,126	20,072
Application of Funds	52,890	55,298	61,621	63,980	69,706	1,05,472	1,12,066	1,20,769
	52,030	,	,	23,300	22,, 00	_,, ., _	_,,	_,_0,, 00

Application of Funds
E: MOFSL Estimates

5 May 2022 7

Financials and valuations

Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Basic (INR)								
EPS	8.2	8.2	9.1	9.9	8.9	9.9	10.6	12.9
Cash EPS	10.6	11.1	12.8	14.2	13.4	14.7	16.1	19.1
Book Value per Share	58.4	63.4	70.4	74.1	81.1	124.8	132.2	141.9
DPS	2.4	2.4	2.4	4.1	2.0	3.2	3.2	3.2
Payout (Incl. Div. Tax) %	29.4	29.3	26.8	41.3	22.4	32.4	30.1	24.8
Valuation (x)								
P/E	18.2	18.2	16.4	15.0	16.7	15.1	14.0	11.5
Cash P/E	14.1	13.4	11.7	10.5	11.1	10.1	9.2	7.8
EV/EBITDA	9.4	8.5	7.4	7.6	7.0	4.6	3.5	2.6
EV/Sales	1.3	1.2	1.0	1.1	0.9	0.5	0.4	0.3
Price to Book Value	2.5	2.3	2.1	2.0	1.8	1.2	1.1	1.0
Dividend Yield (%)	1.6	1.6	1.6	2.8	1.3	2.1	2.1	2.1
Profitability Ratios (%)								
RoE	14.0	12.9	12.9	13.4	11.0	7.9	8.0	9.1
RoCE	14.3	13.3	13.6	13.8	11.8	10.0	8.5	9.6
RoIC	29.4	23.2	21.8	21.4	19.6	21.2	21.4	25.7
Turnover Ratios								
Debtors (Days)	30	37	37	30	32	35	35	35
Inventory (Days)	74	70	62	81	85	72	62	62
Creditors (Days)	37	43	39	38	60	48	48	48
Working Capital (Days)	66	65	60	73	58	60	49	49
Gross Fixed Asset Turnover (x)	4.0	3.6	3.3	2.7	2.3	2.6	2.6	2.6
Leverage Ratio								
Net Debt/Equity (x)	-0.2	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1
Cash Flow Statement								(INR m)
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
OP/(Loss) before Tax	9,757	10,062	12,386	10,352	10,179	57,186	11,274	13,757
Interest/Dividends Received	-898	-358	-217	-429	-362	-224	1,065	1,283
Depreciation & Amortisation	2,063	2,459	3,135	3,626	3,794	4,126	4,662	5,243
Direct Taxes Paid	-2,812	-3,503	-3,733	-2,494	-2,721	-10,475	-2,648	-3,316
(Inc)/Dec in Working Capital	-3,840	-3,563	-468	-2,155	3,044	-3,525	2,540	-1,184
Other Items	41	69	18	237	200	-46,966	0	0
CF from Oper. Activity	4,311	5,166	11,121	9,137	14,134	122	16,894	15,782
// \/5 / 5 00005								

-4,158

153

1,086

-3,072

-2,417

-1,782

-543

738

195

-37

-7,714

-2,548

7,433

-2,449

-4,209

676

196

872

-280

-58

-5,510

5,611

-2,147

-7,656

-2,459

-2,520

-138

785

647

-61

-4,646

4,491

1,397

-3,249

-4,986

-5,086

802

647

1,449

-100

-3,384

10,750

-9,385

-12,769

-289

-1,700

-1,989

-623

1,449

826

-6,000

10,894

-7,028

-13,028

-300

-2,720

-3,020

846

1,534

2,380

-5,812

-5,690

8,542

2,730

-1,700

-2,143

709

826

1,534

-443

-6,000

9,782

-300

-2,720

-3,020

6,762

2,380

9,143

0 **-6,000**

Closing Balance
E: MOFSL estimates

(Inc)/Dec in FA+CWIP

(Pur)/Sale of Invest.

CF from Inv. Activity

CF from Fin. Activity

Add: Beginning Balance

Inc/(Dec) in Cash

Interest Rec./(Paid)

Free Cash Flow

Dividends Paid

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, Investment Advisory Services, Depository participant services & distribution of various financial products. MOFSL is a subsidiary company of Passionate Investment Management Pvt. Ltd.. (PIMPL). 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://onlinereports.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 //galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx

A graph of daily closing prices of securities is available at www.nseindia.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.

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 brokerdealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this

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

- 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.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- 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
- Research Analyst has not served as director/officer/employee in the subject company
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months

 MOFSL has not received compensation for investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received any compensation or other benefits from third party in connection with the research report
- MOFSL has not engaged in market making activity for the subject company

5 May 2022

MOTILAL OSWAL Exide

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company
- received compensation/other benefits from the subject company in the past 12 months
- 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.

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.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 71934200/ 022-71934263; Website www.motilaloswal.com. CIN no.: L67190MH2005PLC153397. Correspondence Office Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad(West), Mumbai-400 064. Tel No: 022 7188 1000.

Registration Nos.: Motilal Oswal Financial Services Limited (MOFSL)*: INZ000158836(BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN - 146822; Investment Adviser: INA000007100; Insurance Corporate Agent: CA0579;PMS:INP000006712. Motilal Oswal Asset Management Company Ltd. (MOAMC): PMS (Registration No.: INP000000670); PMS and Mutual Funds are offered through MOAMC which is group company of MOFSL. Motilal Oswal Financial Services Limited is a distributor of Mutual Funds, PMS, Fixed Deposit, Bond, NCDs,Insurance Products and IPOs.Real Estate is offered through Motilal Oswal Real Estate Investment Advisors II Pvt. Ltd. which is a group company of MOFSL. Private Equity is offered through Motilal Oswal Private Equity Investment Advisors Pvt. Ltd which is a group company of MOFSL. Research & Advisory services is backed by proper research. Please read the Risk Disclosure Document prescribed by the Stock Exchanges carefully before investing. There is no assurance or guarantee of the returns. Investment in securities market is subject to market risk, read all the related documents carefully before investing. Details of Compliance Officer: Name: Neeraj Agarwal, Email ID: na@motilaloswal.com, Contact No.:022-71881085.

* MOSL has been amalgamated with Motilal Oswal Financial Services Limited (MOFSL) w.e.f August 21, 2018 pursuant to order dated July 30, 2018 issued by Hon'ble National Company Law Tribunal, Mumbai Bench.