

Ipca Laboratories

 BSE SENSEX
 S&P CNX

 51,823
 15,413

Motilal Oswal values your support in the Asiamoney Brokers Poll 2022 for India Research, Sales, Corporate Access and Trading team. We request your ballot.





Stock Info

Bloomberg	IPCA IN
Equity Shares (m)	252
M.Cap.(INRb)/(USDb)	225.6 / 2.9
52-Week Range (INR)	1384 / 831
1, 6, 12 Rel. Per (%)	-5/-3/-10
12M Avg Val (INR M)	673
Free float (%)	53.7

Financials Snapshot (INR b)

Y/E MARCH	FY22	FY23E	FY24E
Sales	58.3	61.8	69.9
EBITDA	13.5	13.7	16.9
Adj. PAT	9.3	9.4	11.4
EBIT Margin (%)	19.2	18.2	20.5
Cons. Adj. EPS (INR)	36.5	37.1	45.1
EPS Gr. (%)	-17.8	1.6	21.6
BV/Sh. (INR)	216.5	248.0	286.3
Ratios			
Net D:E	0.0	0.0	-0.1
RoE (%)	18.2	16.0	16.9
RoCE (%)	17.1	14.2	15.4
Payout (%)	16.8	20.5	20.2
Valuations			
P/E (x)	24.2	23.8	19.5
EV/EBITDA (x)	16.6	16.4	13.2
Div. Yield (%)	0.8	0.9	1.0
FCF Yield (%)	1.5	2.2	4.1
EV/Sales (x)	3.8	3.6	3.2

Shareholding pattern (%)

	0.	<u> </u>	
As On	Mar-22	Dec-21	Mar-21
Promoter	46.3	46.3	46.3
DII	32.9	30.3	25.1
FII	11.0	12.3	17.5
Others	9.8	11.1	11.1

FII Includes depository receipts

CMP: INR889 TP: INR1,030 (+16%)

Buy

On course to revive earnings growth

We recently met the management of IPCA lab to understand its business outlook in detail:

- The domestic formulation (DF) segment continues on its robust growth path, led by market share gain, favorable price hikes, addition of medical representatives (MRs), and its increased presence particularly in the cardiology segment.
- The exports opportunity is expected to improve with increased product launches in the UK, new launches and market share gain in Russia, and industry outperformance in Africa branded generics market.
- After 18% YoY decline in earnings in FY22, we expect 11% earnings CAGR over FY22-24, led by 13%/8%/8% sales CAGR in DF, exports formulations, and API, respectively. We reduce the 12M forward PE multiple to 22x from 24x to factor in extended period to revive exports formulation and API business. Thereby, we arrive at a price target of INR1,030 on 12M forward basis.
- Further, considering a 30% correction in market price over the past nine months and the stock now trading at 23x FY23E EPS of INR37 and 19x (vs 3-year average of 23x) FY24E EPS of INR45, we reiterate our Buy rating on the stock.

DF on robust growth path despite high base

- Anti-Malartials/Anti-Infectives therapies sales have moderated as the spread of covid infections subsided in Apr/May'22 and we expect the sales to decline in FY23 from its high base in FY22. The growth in FY23 is expected to be driven by the chronic therapies including Derma/Pain/Gastro/Cardiac, which have exhibited 55%/22%/17%/15% growth over the three months ended May'22.
- While the National List of Essential Medicines (NLEM) portfolio (30% of DF sales) will benefit from 10% price increases, the benefits may flow from June/July as the inventory build-up takes time. The NLEM portfolio has exhibited a CAGR of 12% over FY18-22, driven by Pain/Anti-Neoplastics. Considering the softening of volumes after price increase, we expect the NLEM portfolio to grow 6-7% YoY in FY23.
- IPCA has launched Vildagliptin, which has garnered annual sales of INR250m and the company further intends to expand its cardiovascular franchise with the launch of Sitagliptin. With about 400 MRs, the company has launched two divisions for cardiovascular therapy and it has added ~1200 MRs in total to expand its geographic as well as therapeutic coverage. The newly added MRs, expected to add ~INR700m to the employee costs, are expected to reach corporate level productivity in 18-24 months.
- DF business growth will be driven by price increase of 7-8%, volumes growth of 2-3%, and new launches at 1-1.5%, accumulating to 10-12% YoY growth in FY23.

API business on gradual recovery mode

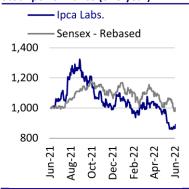
Post re-validating of the manufacturing process ensuring azido impurities are within permissible limits, IPCA is back on track to supply Losartan to its customers. However, refilling of dossiers by major customers and subsequent approvals would take a couple of months. Accordingly, meaningful off-take would happen over near to medium term.

Tushar Manudhane - Research Analyst (Tushar.Manudhane@MotilalOswal.com)

Gaurang Sakare - Research Analyst (Gaurang.Sakare@MotilalOswal.com)

MOTILAL OSWAL

Stock performance (one-year)



- IPCA is having stable sales from other key APIs, including HCQs (INR1b), Metoprolol (INR1b), and Atonelol (~INR1b) on annualized basis.
- The API business is expected to revive post 2QFY23, given the outlook on Losartan and the overall confidence on order visibility. Overall growth for FY23 is expected to be ~5% for the API business.

Product approvals/launches underway in the UK market

- IPCA has progressed well with 15-16 products approved and 4-5 products launched till date in the UK market under its own label. The reduced sales through distributors and the prolonged periods required for product approvals affected the UK business in FY22, down 44% YoY to INR850m. Further, the distributor-led sales was IR650m in FY22.
- However, a) increased pace of product launches, b) geographic expansions, and
 c) new approvals would enable IPCA to improve business prospects in the UK region going forward.
- IPCA expects 10 new approvals over the near term for the UK market.
- Considering these factors, UK revenues are expected to improve FY24 onwards.
- As the UK business stabilizes for IPCA, it targets to have its own front end in other markets of the EU region as well.

New registrations/market share gain to drive Russia business outlook

- The Russia/CIS business has been doing well despite the ongoing war.
- In fact, the business prospects have improved in Russia with reduced competition from US/EU companies.
- Additionally, IPCA is increasing the pace of product registration to enhance the business opportunities in the Russian market. With only 7-8 products registered in Russia, IPCA has garnered about INR1.3b sales from the Russia market.
- IPCA expects robust 25-30% YoY growth in the Russian market in FY23.
- While the Ukraine region remains adversely impacted by the ongoing war, the sales of IPCA is minimal at INR150m annually.

IPCA on path to optimize performance of its subsidiaries

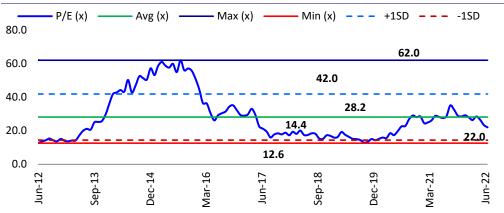
- IPCA's subsidiary Ramdev Chemical is on track to achieve break-even in FY23 and improve profitability FY24 onwards.
- IPCA's another subsidiary Onyx is increasing its capacity to enhance its product development, process chemistry, and custom synthesis prospects. IPCA registered EBITDA of INR250m for FY22 in this subsidiary
- Byshore also had a higher distribution business, driving overall revenue at the subsidiary level for IPCA.
- IPCA is under process to improve profitability of Pisgah by transferring 2-3 products to Pisgah's site.
- IPCA has invested ~INR1.8b in Lyka Labs through a combination of equity (INR650m) and loan (remaining).

Valuation and view

We expect revival of API business and robust growth in DF business to be offset by the higher employee costs in FY23, leading to flat EPS. We expect 11% earnings CAGR over FY22-24, led by a 13%/8%/8% sales CAGR in DF/export formulations/API markets and 100bps EBITDA margin expansion.

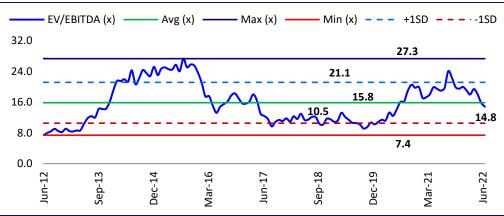
We value IPCA at 22x 12M forward earnings to arrive at a price target of INR1,030. While the near-term outlook may be subdued on account of cost pressures, we remain positive on IPCA on the back of strengthening franchise in the DF segment through price increase, market share gain, and increasing field force, capacity addition/revival in the API segment and the launching of products under its own label in the UK. We reiterate our Buy rating on the stock.

Exhibit 1: P/E chart



Sources: MOFSL, Company, and Bloomberg

Exhibit 2: EV/EBITDA chart



Sources: MOFSL, Company, and Bloomberg



Ipca Laboratories

Exhibit 3: Top 10 drugs

Secondary sales grew 13.9% YoY in 3M ending May'22. Zerodol, CTD, SAAZ remained strong brands for IPCA.

Drug	Therapy	N	/IAT May-22		Grow	owth (%)	
		Value (INR m)	Growth (%)	Mkt Share (%)	Last 3M	May-22	
Total		33,423	21.8	100.0	13.9	17.7	
Zerodol Sp	Pain / Analgesics	4,048	28.7	12.1	26.0	27.2	
Zerodol P	Pain / Analgesics	2,405	14.6	7.2	-1.0	-9.3	
Hcqs	Anti Malarials	1,752	-6.9	5.2	2.1	11.5	
Folitrax	Anti-Neoplastics	1,068	22.1	3.2	31.8	41.0	
Zerodol Th	Pain / Analgesics	985	18.4	2.9	26.4	45.0	
Ctd-T	Cardiac	784	26.2	2.3	33.1	35.2	
Ctd	Cardiac	772	25.9	2.3	27.5	29.0	
Saaz	Gastro Intestinal	674	13.8	2.0	26.1	20.7	
Glycinorm M	Anti Diabetic	623	-1.7	1.9	3.6	3.6	
Solvin Cold	Respiratory	593	57.4	1.8	12.6	18.3	

^{*}Three-months: Mar-May'22 Sources: AIOCD, MOFSL

Exhibit 4: Therapy mix (%)

Anti-Malarials and Anti-Infectives were major drags on growth in 3M ending May'22

	Share	MAT Growth (%)	3M*	May-22
Total	100.0	21.8	13.9	17.7
Pain / Analgesics	33.9	30.2	21.6	23.1
Cardiac	14.3	13.1	14.8	16.5
Anti Malarials	10.3	-4.9	-22.4	-20.5
Anti-Infectives	6.9	21.9	-22.4	-15.6
Gastro Intestinal	6.3	15.8	16.9	24.2
Derma	5.4	44.3	55.1	78.2

Sources: AIOCD, MOFSL

Growth was spread across the brands

Volume was the largest growth driver on a MAT basis in May'22

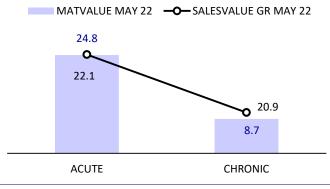
Exhibit 5: Brand-wise growth distribution

	% of sales	MAT growth (%)	Growth Contribution (%)
Total	100.0	21.8	100.0
Top 10 Brands	41.0	17.4	34.1
11 to 25 Brands	19.5	25.7	22.3
26 to 50 Brands	16.0	18.4	13.9
Above 50 Brands	23.5	29.1	29.7

Sources: AIOCD, MOFSL

Exhibit 6: Acute v/s Chronic (MAT growth)

Exhibit 7: Growth distribution (%) (MAT May'22)

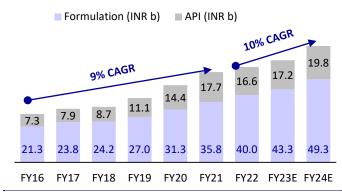




Sources: AIOCD, MOFSL Sources: AIOCD, MOFSL

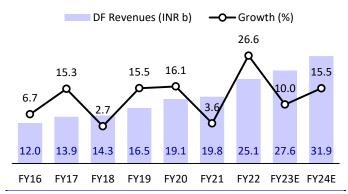
Story in charts

Exhibit 8: Expect ~10% revenue CAGR over FY22-24



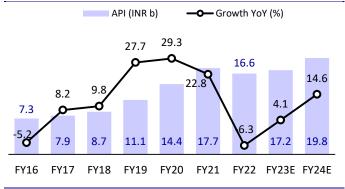
Sources: MOFSL, Company

Exhibit 9: Expect 13% DF sales CAGR over FY22-24



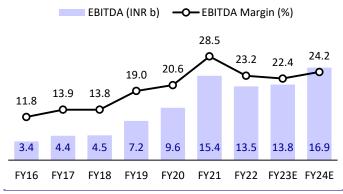
Sources: MOFSL, Company

Exhibit 10: Expect gradual recovery in API business



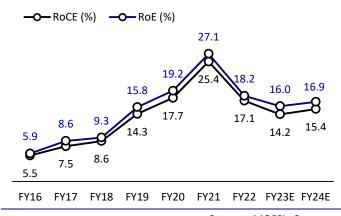
Sources: MOFSL, Company

Exhibit 11: Expect margin to expand 100bps over FY22-24



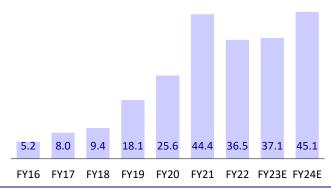
Sources: MOFSL, Company

Exhibit 12: RoE to bottom out in FY23



Sources: MOFSL, Company

Exhibit 13: Expect 11% EPS CAGR over FY22-24



Sources: MOFSL, Company

Financials and valuations

Income Statement									(INR m)
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Net Revenue	28,850	32,106	32,836	37,732	46,487	54,200	58,298	61,785	69,912
Change (%)	-8.2	11.3	2.3	14.9	23.2	16.6	7.6	6.0	13.2
EBITDA	3,417	4,448	4,547	7,170	9,580	15,444	13,509	13,655	16,919
Margin (%)	11.8	13.9	13.8	19.0	20.6	28.5	23.2	22.1	24.2
Depreciation	1,722	1,730	1,777	1,824	2,105	2,092	2,324	2,440	2,564
EBIT	1,695	2,718	2,770	5,346	7,475	13,352	11,184	11,214	14,355
Int. and Finance Charges	316	241	240	189	165	90	77	117	149
Other Income – Rec.	169	226	418	483	578	457	666	810	850
PBT before EO Expense	1,548	2,703	2,948	5,640	7,888	13,719	11,773	11,907	15,056
EO Expense/(Income)	395	0	0	157	445	-171	-416	0	0
PBT after EO Expense	1,153	2,703	2,948	5,483	7,442	13,890	12,189	11,907	15,056
Current Tax	228	533	614	1,218	1,406	2,487	2,070	2,262	3,312
Deferred Tax	-42	142	-102	-176	-53	-85	178	238	301
Tax	186	675	511	1,042	1,353	2,401	2,248	2,500	3,613
Tax Rate (%)	12.0	25.0	17.3	18.5	17.2	17.5	19.1	21.0	24.0
Reported PAT	967	2,028	2,436	4,441	6,090	11,488	9,939	9,405	11,441
Less: Minority Interest	35	0	42	18	78	91	269	0	0
Net Profit	933	2,028	2,394	4,423	6,012	11,398	9,939	9,405	11,441
Adj. PAT	1,328	2,028	2,394	4,580	6,485	11,255	9,257	9,406	11,442
Adj. PAT growth (%)	-46.9	52.8	18.1	91.3	41.6	73.6	-17.8	1.6	21.6

Balance Sheet									(INR m)
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Equity Share Capital	252	252	252	252	252	254	254	254	254
Total Reserves	22,340	24,300	26,633	30,971	35,903	46,763	54,666	62,662	72,387
Net Worth	22,592	24,553	26,886	31,224	36,275	47,017	54,920	62,915	72,641
Deferred liabilities	1565	1705	1580	1457	1398	1316	1506	1744	2045
Total Loans	6,691	5,290	4,731	3,505	4,328	1,988	8,027	7,631	7,275
Capital Employed	30,848	31,548	33,196	36,342	42,137	50,466	65,222	72,290	81,961
Gross Block	22,121	23,508	24,969	26,657	30,268	31,872	37,647	41,147	42,647
Less: Accum. Deprn.	1,628	3,350	5,127	6,951	9,056	11,148	13,472	15,912	18,476
Net Fixed Assets	20,493	20,158	19,842	19,706	21,212	20,724	24,175	25,235	24,171
Capital WIP	936	621	418	361	708	2,348	3,064	3,064	3,064
Investments	258	1,358	869	1,204	2,719	4,711	9,892	9,892	9,892
Curr. Assets	17,230	17,458	20,027	24,217	27,939	32,881	39,237	44,922	57,147
Inventory	8,374	8,822	8,806	10,725	13,231	15,948	18,580	20,088	22,477
Account Receivables	4,459	5,002	6,023	6,815	8,952	8,118	9,108	10,651	12,704
Cash and Bank Balance	1,755	359	1,506	2,823	1,809	3,651	6,407	8,514	15,516
Loans and Advances	2,641	3,276	3,693	3,854	3,947	5,164	5,143	5,669	6,450
Curr. Liability and Prov.	8,069	8,047	7,960	9,147	10,441	10,198	11,147	10,823	12,313
Account Payables	7,245	7,141	7,029	8,190	9,182	8,781	9,704	9,620	10,945
Provisions	824	906	931	957	1,259	1,417	1,443	1,203	1,368
Net Current Assets	9,160	9,410	12,068	15,070	17,498	22,682	28,091	34,099	44,834
Appl. of Funds	30,848	31,548	33,196	36,342	42,137	50,466	65,222	72,290	81,961

Financials and valuations

Y/E March	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
EPS (INR)	5.2	8.0	9.4	18.1	25.6	44.4	36.5	37.1	45.1
Cash EPS	10.5	14.9	16.5	24.8	32.2	53.2	48.3	46.7	55.2
BV/Share	89.5	97.3	106.5	123.7	143.2	185.3	216.5	248.0	286.3
DPS	0.0	0.5	0.5	0.5	3.6	6.8	6.6	7.7	9.2
Payout (%)	0.0	6.2	5.2	2.8	14.8	14.9	16.8	20.5	20.2
Valuation (x)									
P/E	168.5	110.3	93.4	48.8	34.5	19.9	24.2	23.8	19.5
P/BV	9.8	9.1	8.3	7.1	6.2	4.8	4.1	3.6	3.1
EV/Sales	7.8	7.0	6.8	5.9	4.8	4.1	3.8	3.6	3.2
EV/EBITDA	65.6	50.4	49.3	31.3	23.4	14.5	16.6	16.4	13.2
Dividend Yield (%)	0.0	0.1	0.1	0.1	0.4	0.8	0.8	0.9	1.0
Return Ratios (%)									
RoE	5.9	8.6	9.3	15.8	19.2	27.1	18.2	16.0	16.9
RoCE	5.5	7.5	8.6	14.3	17.7	25.4	17.1	14.2	15.4
RoIC	5.3	7.1	7.7	14.0	18.0	28.7	21.1	18.3	20.9
Working Capital Ratios									
Fixed Asset Turnover (x)	1.5	1.6	1.6	1.9	2.3	2.6	2.6	2.5	2.8
Debtor (Days)	56	56	66	65	70	54	56	62	65
Inventory (Days)	106	100	98	104	104	107	116	119	117
Working Capital Turnover (Days)	94	103	117	118	123	128	136	151	153
Leverage Ratio (x)									
Interest Coverage Ratio	5.4	11.3	11.5	28.3	45.3	147.7	145.4	95.5	96.3
Debt/Equity ratio	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	-0.1

Cash Flow Statement									(INR m)
Y/E March	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Oper. Profit/(Loss) before Tax	3,417	4,448	4,547	7,170	9,580	15,444	13,509	13,655	16,919
Interest/Dividends Recd.	169	226	418	483	578	457	666	810	850
Direct Taxes Paid	-364	-535	-636	-1,165	-1,412	-2,484	-2,058	-2,262	-3,312
(Inc.)/Dec. in WC	2,622	-1,647	-1,510	-1,686	-3,442	-3,343	-2,652	-3,901	-3,733
CF from Operations	5,844	2,491	2,819	4,803	5,304	10,075	9,464	8,301	10,724
Others	1,638	328	592	365	784				
EO Expense/(Income)	395	0	0	157	445	-171	-416	0	0
CF from Oper. Incl. EO Exp.	7,087	2,819	3,411	5,010	5,643	10,246	9,880	8,301	10,724
(inc.)/dec. in FA	5,079	-1,072	-1,258	-1,632	-3,958	-3,244	-6,491	-3,500	-1,500
Free Cash Flow	12,165	1,747	2,154	3,379	1,685	7,002	3,389	4,801	9,224
(Pur.)/Sale of Investments	-96	-1,100	489	-336	-1,515	-1,992	-5,181	0	0
Others	-7,166	684	-586	317	376	0	0	0	0
CF from Investments	-2,183	-1,488	-1,354	-1,651	-5,097	-5,236	-11,672	-3,500	-1,500
Issue of shares	0	0	0	0	0	1	6,663	-1,165	-356
(Inc.)/Dec. in Debt	-1,594	-1,401	-560	-1,070	804	-2,331	-77	-117	-149
Interest Paid	-316	-241	-240	-189	-165	-90	-1,670	-1,933	-2,308
Dividend Paid	0	-126	-126	-126	-902	-1,710	306	396	420
CF from Fin. Activity	-4,615	-1,591	-1,304	-1,832	-1,305	-3,169	5,222	-2,819	-2,394
Inc./Dec. in Cash	288	-260	753	1,528	-758	1,841	3,430	1,982	6,830
Add: Beginning Balance	1,037	1,689	1,428	2,181	3,709	2,954	4,795	8,225	10,207
Forex/Business acquisition	364	0	0	0	3	0	0	0	0
Closing Balance	1,689	1,428	2,181	3,709	2,954	4,795	8,225	10,207	17,037
Bank balances/Mutual fund (gain)/ loss	67	-1,070	-676	-886	-1,145	-1,145	-1,818	-1,693	-1,521
Closing Balance	1,755	359	1,506	2,823	1,809	3,651	6,407	8,514	15,516

NOTES

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

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

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 website at https://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

22 June 2022

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.