

Indigo Paints

Estimate change



TP change



Rating change



Bloomberg	INDIGOPN IN
Equity Shares (m)	48
M.Cap.(INRb)/(USDb)	66 / 0.8
52-Week Range (INR)	1700 / 1250
1, 6, 12 Rel. Per (%)	2/-22/-27
12M Avg Val (INR M)	134

Financials & Valuations (INR b)

Y/E March	2024	2025E	2026E
Sales	13.1	15.2	17.5
Sales Gr. (%)	21.7	16.0	15.5
EBITDA	2.4	2.7	3.1
EBIT Margin (%)	18.2	17.9	17.5
Adj. PAT	1.5	1.6	1.9
Adj. EPS (INR)	31.3	34.2	39.3
EPS Gr. (%)	28.8	9.2	15.2
BV/Sh.(INR)	189.6	217.8	249.1

Ratios

RoE (%)	17.7	16.8	16.9
RoCE (%)	17.3	16.3	16.5

Valuation

P/E (x)	44.3	40.6	35.3
P/BV (x)	7.3	6.4	5.6
EV/EBITDA (x)	26.9	23.1	20.0

Shareholding pattern (%)

As On	Sep-23	Jun-23	Sep-22
Promoter	54.0	54.0	54.0
DII	2.3	2.9	3.1
FII	8.8	8.9	8.8
Others	35.0	34.3	34.1

FII Includes depository receipts

CMP: INR1,387

TP: INR1,600 (+15%)

Buy

Slow organic growth; FY24 print better than peers'

- Indigo Paints (INDIGOPN) delivered consolidated sales growth of 18% YoY to INR3.8b (est. INR3.9b). Standalone sales growth decelerated to 12.5% YoY in 4QFY24 vs. 19% in 9MFY24. Apple Chemie clocked 24% YoY growth in FY24 to INR517mn (since acquisition in 1QFY24) and supported consolidated growth.
- In FY24, INDIGOPN sustained growth outperformance, with 17% YoY growth in standalone revenue (leading to share gains). Emulsion value/volume growth stood at 9%/14% YoY and Primer + Distemper value/volume growth was 28%/22% YoY. Consolidated revenue grew 22% YoY in FY24.
- GM expanded 210bp YoY/70bp QoQ, aided by favorable RM prices. Higher other expenses at 30% YoY (180bp) were attributed to reinvestment in marketing and distribution. Hence, EBITDA margin was flat YoY at 22%.
- The management expects to sustain volume growth outperformance and achieve 3-4x industry growth. The company expects a limited impact of new competition on its growth trajectory; it considers more competition from the existing players.
- INDIGOPN witnessed growth across India, demonstrating a reduced reliance on Kerala. Furthermore, Apple Chemie (construction chemicals & water proofing) has successfully expanded its operations beyond Maharashtra.
- We reiterate our **BUY rating with a TP of INR1,600**, considering its promising sales growth outlook, synergies with Apple Chemie, consistent capacity & distribution expansion, and its favorable valuation multiples vs. peers.

Consolidated sales in line; slow organic growth

Consolidated

- **Sales growth above industry:** Consolidated net sales grew 18.3% YoY to INR3,849m (est. INR3,990m). INDIGOPN witnessed over 3-4x higher growth than the industry, indicating market share gains by the company.
- **Healthy gross margin expansion:** Gross margin improved 210bp YoY and 70bp QoQ to 48.9% (est. 49.0%), aided by a favorable product mix. As a percentage of sales, high employee costs (up 30bp YoY) and other expenses (up 180bp YoY) led to flat YoY EBITDA margin of 22% (est. 22.3%).
- **Double-digit growth in EBITDA/PBT/PAT:** EBITDA grew 18% YoY to INR846m (est. INR888m). PBT increased 11% YoY to INR727m (est. INR768m). Adj. PAT rose 12% YoY to INR544m (est. INR574m).
- **In FY24**, consolidated net sales/EBITDA/Adj. PAT increased 22%/31%/29% while standalone net sales/EBITDA/Adj. PAT increased 17%/28%/28%.

Highlights from the management commentary

- Sales growth was 3x-4x higher than the industry growth rate, indicating significant market share gain. In 4Q, consolidated revenue grew by 18%, compared to an industry average growth of less than 1%.

Naveen Trivedi – Research Analyst (Naveen.Trivedi@motilaloswal.com)

Research Analyst: Pratik Prajapati (pratik.prajapati@motilaloswal.com) | **Tanu Jindal** (Tanu.Jindal@MotilalOswal.com)

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

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

- Gross margin was the highest in the industry for indigo as the contribution from differentiated products was higher.
- A&P spending increased to INR923m from INR 827m in FY23. However, as a percentage of sales, it decreased by 30bp to 7.4% vs. 7.7% in FY23.
- The company added 332 tinting machines, taking the total to 9,842 in 4QFY24 from 9,510 in 3QFY24. In FY24, it added total 1,600 tinting machines. In FY24, the number of active dealers was 18,105, up by 360 from 17,745 in 3QFY24 and 16,496 in 4QFY23.
- The company expects to sustain its revenue growth at 3-4x the industry average. The management aims to sustain the current gross margin throughout FY25, acknowledging potential quarterly fluctuations due to seasonal product mix changes.

Valuation and view

- We cut our EPS estimates by 5%/2% for FY25/FY26.
- Indigo's strategic shift to focusing on non-metro towns and increased investments in distribution and influencers as part of its Strategy 2.0 are proving to be a successful endeavor, as evidenced by its outperformance to industry growth by 3x-4x for the two consecutive quarters.
- Given the relatively small scale of INDIGOPN (INR13b revenue in FY24) in the large paints industry, the company has been able to grow much faster than the industry. Consumers' rising acceptance of the brand and the expansion of distribution have been driving the outperformance. However, changing the competitive landscape will be a key monitorable. We reiterate our BUY rating with a revised TP of INR1,600 (40x FY26E EPS).

Consolidated Quarterly Performance

(INR m)

Y/E March	FY23				FY24				FY23	FY24	FY24	Var. (%)
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			4QE	
Net Sales	2,240	2,426	2,813	3,255	2,884	2,790	3,538	3,849	10,733	13,061	3,990	-3.5%
Change (%)	43.6	23.7	6.0	12.9	28.8	15.0	25.8	18.3	18.5	21.7	22.6	
Raw Material/PM	1,228	1,414	1,580	1,731	1,519	1,519	1,833	1,968	5,952	6,839	2,033	
Gross Profit	1,012	1,012	1,233	1,524	1,365	1,271	1,705	1,881	4,781	6,222	1,956	-3.9%
Gross Margin (%)	45.2	41.7	43.8	46.8	47.3	45.6	48.2	48.9	44.5	47.6	49.0	
EBITDA	353	338	406	717	491	421	622	846	1,815	2,381	888	-4.8%
Margin (%)	15.7	13.9	14.4	22.0	17.0	15.1	17.6	22.0	16.9	18.2	22.3	
Change (%)	74.9	44.5	4.9	33.4	39.2	24.8	53.5	17.9	33.5	31.2	23.8	
Interest	4	3	3	4	5	6	6	5	14	21	5	
Depreciation	84	85	87	87	101	113	146	156	343	516	146	
Other Income	5	32	38	28	38	32	31	42	101	142	30	
PBT	269	282	353	654	423	335	501	727	1,558	1,986	768	-5.4%
Tax	70	74	91	168	108	81	125	183	402	497	194	
Effective Tax Rate (%)	26.0	26.4	25.7	25.6	25.6	24.3	25.0	25.1	25.8	25.0	25.3	
Adjusted PAT	199	208	263	487	310	253	376	544	1,156	1,489	574	-5.2%
Change (%)	71.5	53.2	8.1	40.7	55.9	22.1	43.0	11.8	37.5	28.8	17.9	

E: MOFSL Estimates

Key Performance Indicators

Y/E March	FY23				FY24			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Segmental volume growth (%)								
Cement Paints + Putty	12.7	6.2	34.8	42.0	64.6	50.6	24.2	20.2
Emulsions	34.4	-4.2	-4.3	5.2	13.1	20.0	14.3	13.7
Enamels + Wood Coatings	15.8	28.8	4.7	24.8	35.3	5.4	27.3	3.4
Primers + Distempers + Others	2.4	13.1	1.3	37.6	52.4	28.8	37.7	22.0
Segmental value growth (%)								
Cement Paints + Putty	22.7	16.3	42.3	45.1	65.8	47.9	25.2	21.4
Emulsions	65.7	17.4	3.3	9.4	17.8	15.4	18.2	9.1
Enamels + Wood Coatings	38.1	46.9	14.6	27.3	36.6	3.0	25.2	-1.0
Primers + Distempers + Others	28.0	22.4	5.5	23.2	43.6	26.6	34.7	27.6
2Y average growth (%)								
Sales	46.4	25.2	16.3	13.1	36.2	19.4	15.9	15.6
EBITDA	40.5	12.4	13.8	29.3	57.1	34.6	29.2	25.7
PAT	54.9	12.6	18.7	39.9	63.7	37.6	25.5	26.3
% of Sales								
COGS	54.8	58.3	56.2	53.2	52.7	54.4	51.8	51.1
Operating Expenses	29.4	27.8	29.4	24.8	30.3	30.5	30.6	26.9
Depreciation	3.8	3.5	3.1	2.7	3.5	4.0	4.1	4.0
YoY change (%)								
COGS	44.4	23.7	4.2	6.4	23.7	7.4	16.0	13.7
Operating Expenses	29.7	15.4	10.0	12.1	32.5	26.0	30.8	28.3
Other Income	-83.9	4.6	63.2	12.2	684.9	-0.6	-18.8	47.8
EBIT	109.6	61.3	3.4	38.7	45.3	22.0	49.6	9.5

E: MOFSL Estimates



Highlights from the management commentary

Performance and outlook

- Sales growth was 3x-4x higher than the industry growth rate, indicating significant market share gains.
- In 4Q, consolidated revenue grew by 18%, compared to an industry average growth of less than 1%.
- During the quarter, putty and cement paints achieved value and volume growth of 21% and 20%, respectively.
- Enamels and wood coatings saw mid-single-digit volume growth, but negative value growth due to company-initiated price reductions.
- In the past six to seven months, waterproofing and construction chemicals have contributed around 5% to 6% to standalone business. This is expected to grow to 8%-10% by FY25.
- Primers and distempers both saw double-digit growth in volume and value.
- The company anticipates maintaining its revenue growth at 3-4x the industry average. The management aims to sustain the current gross margin throughout FY25, acknowledging potential quarterly fluctuations due to seasonal product mix changes.

Costs and margins

- INDIGOPN's gross margin was the highest in the industry as the contribution from differentiated products was higher.

- A&P spending increased to INR923mn in FY24 from INR827mn in FY23. However, as a percentage of sales, it decreased by 30bp to 7.4% vs. 7.7% in FY23.
- Despite increased spending on digital advertising, overall A&P expenses are expected to marginally decline as a percentage of revenue in FY25.

Distribution network

- The company added six depots in FY24 to improve its distribution efficiency. As of Mar'24, the company has total 53 depots.
- It added 332 tinting machines, taking the total to 9,842 in 4QFY24 from 9,510 in 3QFY24.
- As of Mar'24, the number of active dealers is 18,105, up by 360 from 17,745 in the 3QFY24.

Apple Chemie (acquired entity)

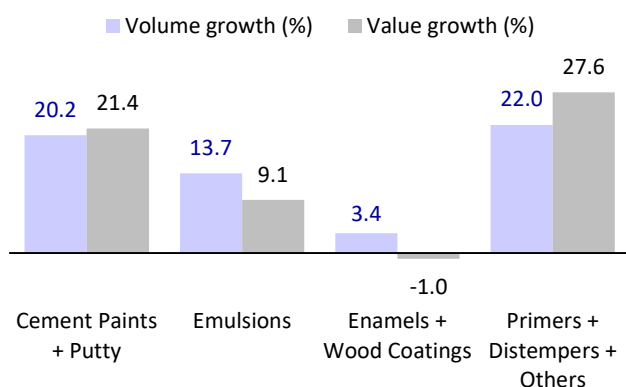
- Apple Chemie's contribution to the overall consolidated business is relatively small, with revenue of about INR510m in FY24.
- Apple Chemie has received large orders from southern, northern, and eastern regions of India and has expanded its marketing team to eight additional states.
- On the B2B front, Apple Chemie has grown over 24% in FY24, and the growth is expected to accelerate further.

Others

- Capex for the new water-based plant in Jodhpur is around INR2.7b. The new solvent-based plant will cost about INR400-450m and the expansion of the existing putty facility will cost less than INR150m.
- The putty expansion is expected to be completed by Dec'24. The solvent-based plant is anticipated to be commissioned by Mar'25.
- The management aims to complete the water-based plant by Mar'25. However, due to recent labor shortages affecting civil construction, there is a possibility of a delay of a couple of months.
- In Jodhpur, there are plans for a new solvent plant with a capacity of 12,000 KLPA and a water-based plant with a capacity of 90,000 KLPA. Additionally, the putty plant's capacity in Jodhpur will be doubled. These developments, once completed, will provide ample infrastructure to meet demand for the next five years.
- The capacity expansion in Tamil Nadu is approximately 50,000 KLPA.
- The water-based plant expansion in Jodhpur aligns with anticipated demand in northern and eastern India, served by the Jodhpur plant.
- The Cochin plant meets Kerala's needs, while the Jodhpur plant covers most of western, northern, and large parts of eastern India.
- Productivity could increase significantly by 2x to 3x, if a dealer adopts a tinting machine.
- Differentiated products contribute around 30% to the overall business.

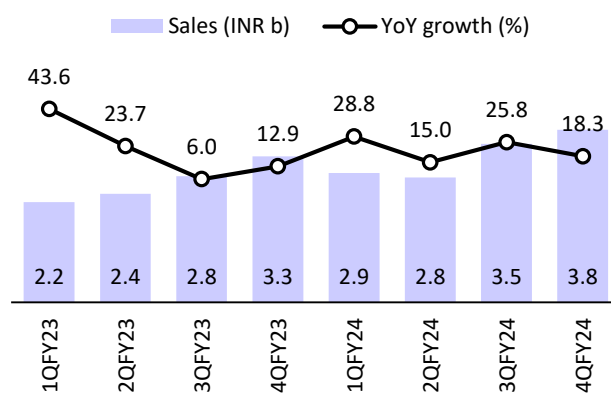
Key exhibits

Exhibit 1: Volume growth recovers in 4QFY24



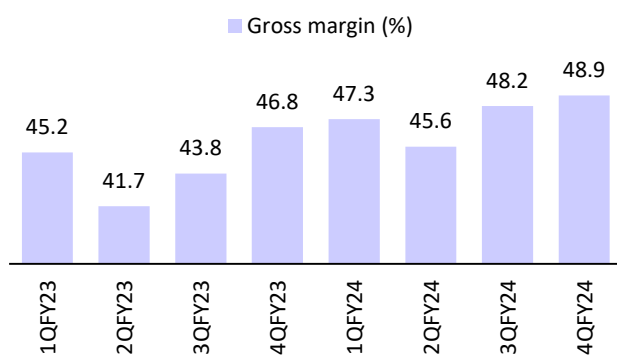
Source: Company, MOFSL

Exhibit 2: Sales up 18% YoY at INR3.8b in 4QFY24



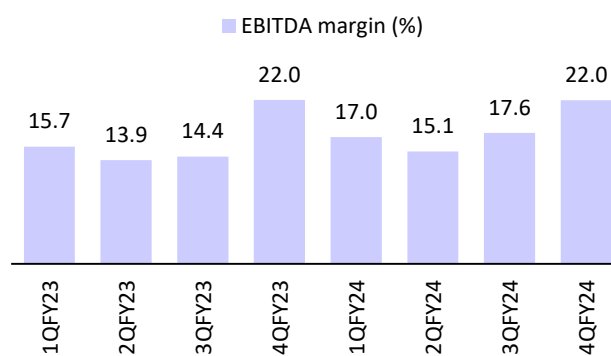
Source: Company, MOFSL

Exhibit 3: Gross margin up 210bp YoY at 48.9% in 4QFY24



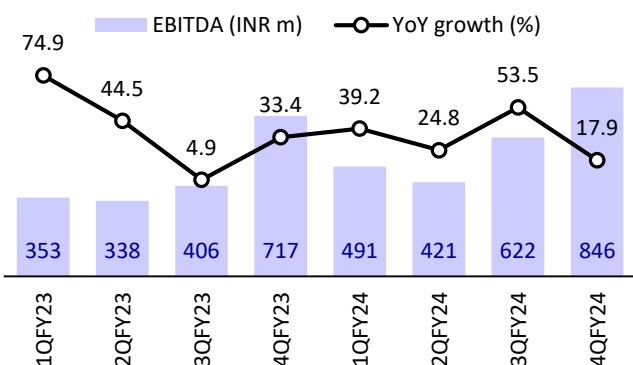
Source: Company, MOFSL

Exhibit 4: EBITDA margin flat YoY at 22% in 4QFY24



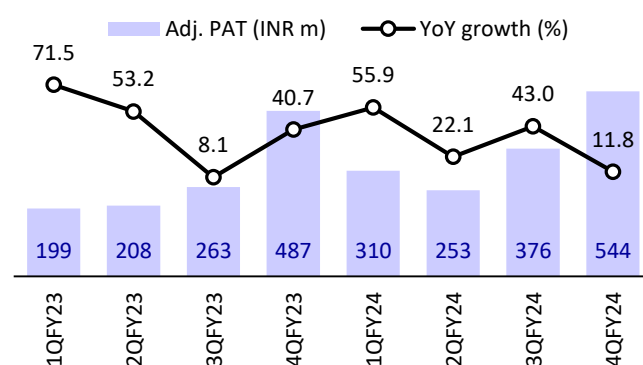
Source: Company, MOFSL

Exhibit 5: EBITDA grew 18% YoY to INR846m in 4QFY24



Source: Company, MOFSL

Exhibit 6: PAT up 12% YoY to INR544m in 4QFY24



Source: Company, MOFSL

Valuation and view

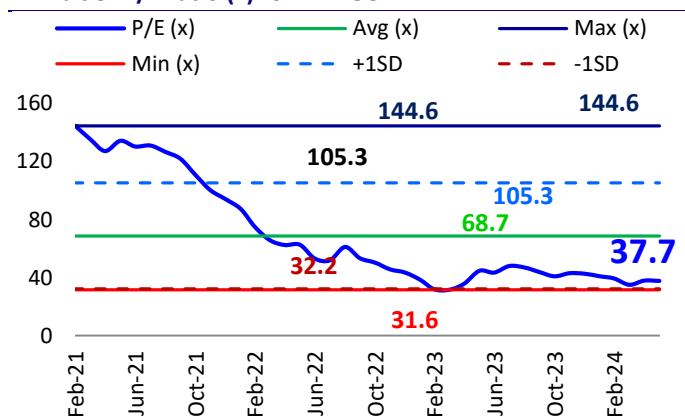
- We cut our EPS estimates by 5%/2% for FY25/FY26.
- INDIGOPN's strategic shift to focusing on non-metro towns and increased investments in distribution and influencers as part of its Strategy 2.0 are proving to be a successful endeavor, as evidenced by its outperformance to industry growth by 3x-4x for two consecutive quarters. This approach has the potential to result in significant market share gains across various segments for the company.
- INDIGOPN has successfully surmounted the high-entry barriers in the Indian paint industry through a deliberate and multifaceted approach, including a) pioneering differentiated product offerings; b) consistently strengthening distribution with the addition of two depots (one each in West & East India), 455 dealers and 457 tinting machines in Q2FY24; c) cultivating brand recognition through substantial investments in advertising efforts; d) collaborating with the influential community of painters and contractors to foster trust; and e) leveraging synergies through the partnership with Apple Chemie in its supply chain. We reiterate our BUY rating with a revised **TP of INR1,770 (40x Mar'25E EPS)**.

Exhibit 7: We cut our EPS estimates by 5%/2% for FY25/FY26

INR m	New		Old		Change (%)	
	FY25E	FY26E	FY25E	FY26E	FY25E	FY26E
Sales	15,151	17,499	15,314	17,611	-1.1	-0.6
EBITDA	2,718	3,069	2,748	3,089	-1.1	-0.6
PAT	1,625	1,872	1,706	1,909	-4.7	-2.0

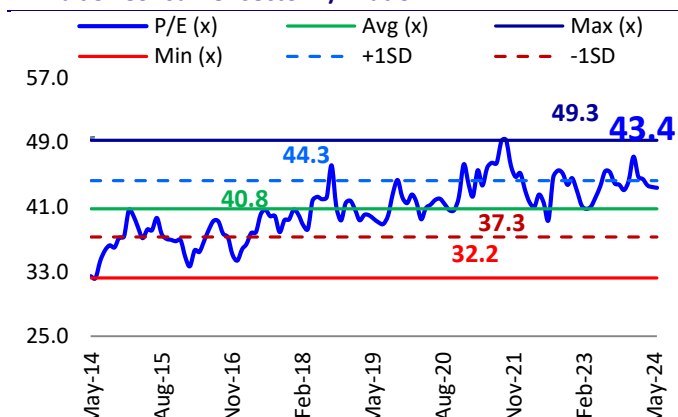
Source: Company, MOFSL

Exhibit 8: P/E ratio (x) for INDIGOPN



Source: MOFSL, Company, Bloomberg

Exhibit 9: Consumer sector P/E ratio



Source: MOFSL, Company, Bloomberg

Financials and valuations

Income Statement consol.							(INR m)	
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Net Sales	5,356	6,248	7,233	9,060	10,733	13,061	15,151	17,499
Change (%)	33.4	16.6	15.8	25.3	18.5	21.7	16.0	15.5
Raw Materials	2,985	3,220	3,765	5,135	5,952	6,839	8,030	9,362
Gross Profit	2,371	3,028	3,468	3,925	4,781	6,222	7,121	8,137
Margin (%)	44.3	48.5	47.9	43.3	44.5	47.6	47.0	46.5
Operating Expenses	1,830	2,118	2,243	2,565	2,966	3,841	4,403	5,068
EBITDA	541	910	1,225	1,360	1,815	2,381	2,718	3,069
Change (%)	109.6	68.2	34.7	11.0	33.5	31.2	14.2	12.9
Margin (%)	10.1	14.6	16.9	15.0	16.9	18.2	17.9	17.5
Depreciation	171	196	244	313	343	516	690	735
Int. and Fin. Charges	47	56	38	13	14	21	23	26
Other Income	16	16	36	109	101	142	163	188
Profit before Taxes	340	674	979	1,143	1,558	1,986	2,168	2,497
Change (%)	145.2	98.2	45.2	16.7	36.3	27.4	9.2	15.2
Margin (%)	6.4	10.8	13.5	12.6	14.5	15.2	14.3	14.3
Tax	48	147	256	288	418	435	543	625
Tax Rate (%)	20.1	29.1	27.6	26.5	25.8	25.0	25.0	25.0
PAT Before Minority	272	478	709	840	1,156	1,489	1,625	1,872
Minority Interest								
Adjusted PAT	272	478	709	840	1,156	1,489	1,625	1,872
Change (%)	91.7	76.0	48.2	18.6	37.5	28.8	9.2	15.2
Margin (%)	5.1	7.7	9.8	9.3	10.8	11.4	10.7	10.7
Reported PAT	275	478	709	840	1,319	1,489	1,625	1,872

Balance Sheet							(INR m)	
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Share Capital	289	290	476	476	476	476	476	476
Reserves	1,186	1,680	5,159	6,023	7,285	8,545	9,885	11,375
Net Worth	1,475	1,971	5,635	6,499	7,761	9,021	10,361	11,852
Loans	516	392	0	0	0	31	0	0
Other Liability	115	132	157	209	188	380	380	380
Minority Interest								
Capital Employed	2,106	2,495	5,792	6,708	7,949	9,432	10,741	12,232
Gross Block	1,006	1,669	2,339	2,612	2,785	6,435	6,685	7,185
Less: Accum. Depn.	137	245	452	716	987	1,611	1,934	2,030
Net Fixed Assets	869	1,424	1,887	1,896	1,798	4,824	4,751	5,155
Capital WIP	44	11	31	510	2,509	174	174	174
Right to Use Assets	311	278	301	332	543	694	383	345
Investments	197	208	497	1,731	1,317	1,667	2,267	3,067
Curr. Assets, L&A	2,002	1,967	4,983	4,288	3,996	4,950	6,403	7,428
Inventory	693	768	947	1,177	1,177	1,706	1,979	1,774
Account Receivables	1,038	1,045	1,212	1,717	2,001	2,231	2,588	3,116
Cash and Bank Balance	140	57	2,583	996	488	329	1,017	1,558
Others	130	97	241	398	330	684	818	980
Curr. Liab. and Prov.	1,623	1,698	2,212	2,354	2,520	3,275	3,637	4,337
Account Payables	1,362	1,386	1,856	2,014	2,106	2,290	2,656	3,356
Other Liabilities	261	289	315	270	318	920	915	915
Provisions	0	24	42	70	96	65	65	65
Net Current Assets	379	269	2,771	1,934	1,476	1,675	2,766	3,092
Goodwill on Cons.	306	306	306	306	306	399	399	399
Application of Funds	2,106	2,495	5,792	6,708	7,950	9,432	10,741	12,232

E: MOFSL Estimates

Financials and valuations

Ratios

Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Basic (INR)								
EPS	5.7	16.5	14.9	17.7	24.3	31.3	34.2	39.3
Cash EPS	9.3	14.2	20.0	24.2	31.5	42.1	48.7	54.8
BV/Share	31.0	41.4	118.5	136.6	163.2	189.6	217.8	249.1
DPS	0.0	0.0	0.0	3.0	3.5	3.5	6.0	8.0
Payout %	0.0	0.0	0.0	17.0	14.4	11.2	17.6	20.3
Valuation (x)								
P/E	242.8	84.2	93.1	78.5	57.1	44.3	40.6	35.3
Cash P/E	149.2	97.9	69.3	57.2	44.0	32.9	28.5	25.3
EV/Sales	7.5	6.5	8.7	7.0	6.0	4.9	4.1	3.5
EV/EBITDA	74.3	44.4	51.3	46.5	35.4	26.9	23.1	20.0
P/BV	44.7	33.5	11.7	10.2	8.5	7.3	6.4	5.6
Dividend Yield (%)	0.0	0.0	0.0	0.2	0.3	0.3	0.4	0.6
Return Ratios (%)								
RoE	19.8	27.8	18.6	13.9	16.2	17.7	16.8	16.9
RoCE	16.4	22.5	17.8	13.6	15.9	17.3	16.3	16.5
RoIC	16.8	23.3	25.3	18.4	21.5	20.1	16.5	17.5
Working Capital Ratios								
Debtor (Days)	71	61	61	69	68	62	62	65
Asset Turnover (x)	2.5	2.5	1.2	1.4	1.4	1.4	1.4	1.4
Leverage Ratio								
Debt/Equity (x)	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0

Cash Flow Statement

(INR m)

Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
OP/(loss) before Tax	337	674	979	1,143	1,559	1,986	2,168	2,497
Depreciation	171	196	244	313	343	515	690	735
Net interest	45	54	22	-47	3	19	-140	-162
Others	6	-8	-5	-19	4	-41	0	0
Direct Taxes Paid	-44	-124	-164	-258	-244	-593	-543	-625
(Incr)/Decr in WC	2	-69	137	-479	-505	-377	-398	215
CF from Operations	516	723	1,214	652	1,161	1,510	1,777	2,659
Incr in FA	-633	-613	-660	-1,208	-1,970	-1,041	-250	-500
Free Cash Flow	-117	110	553	-556	-809	469	1,527	2,159
Pur of Investments	0	0	-2,522	460	1,100	-478	-600	-800
Others	23	-21	2,138	-1,438	-599	2	113	-412
CF from Invest.	-611	-634	-1,044	-2,186	-1,469	-1,517	-737	-1,712
Issue of Shares	17	18	2,932	0	0	0	0	0
Incr in Debt	209	-143	-500	0	0	13	-31	0
Dividend Paid	0	0	0	0	-143	-167	-286	-381
Net interest Paid	-37	-47	-33	-2	0	-2	-23	-26
Others	0	0	-41	-50	-58	-77	0	0
CF from Fin. Activity	189	-172	2,357	-53	-201	-233	-340	-407
Incr/Decr of Cash	94	-83	2,526	-1,587	-508	-240	701	540
Add: Opening Balance	46	140	57	2,583	996	488	248	949
Closing Balance	140	57	2,583	996	488	248	949	1,489

E: MOFSL Estimates

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

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