

# **Bosch**

Estimate change	1
TP change	1
Rating change	<b>←→</b>

Bloomberg	BOS IN
Equity Shares (m)	29
M.Cap.(INRb)/(USDb)	931 / 11.2
52-Week Range (INR)	32230 / 17925
1, 6, 12 Rel. Per (%)	7/34/43
12M Avg Val (INR M)	778

### Financials & Valuations (INR b)

INR b	FY24	FY25E	FY26E
Sales	167.3	191.4	214.8
EBITDA	20.9	27.3	31.8
Adj. PAT	18.3	24.2	28.0
EPS (INR)	620.5	821.1	950.9
EPS Gr. (%)	28.5	32.3	15.8
BV/Sh. (INR)	4,091	4,527	5,058
Ratios			
RoE (%)	15.9	19.1	19.8
RoCE (%)	20.6	24.3	25.2
Payout (%)	44.4	46.9	44.2
Valuations			
P/E (x)	50.9	38.5	33.2
P/BV (x)	7.7	7.0	6.2
Div. Yield (%)	1.2	1.2	1.3
FCF Yield (%)	1.0	1.6	1.8

# Shareholding pattern (%)

	0 1		
As On	Mar-24	Dec-23	Mar-23
Promoter	70.5	70.5	70.5
DII	17.2	17.3	16.8
FII	4.1	3.7	3.7
Others	8.2	8.5	9.0

FII Includes depository receipts

# CMP:INR31,566 TP: INR28,585 (-9%) Neutra 4Q performance hit by weak demand for CVs and tractors Industry growth likely to moderate in CY24

- BOS's 4QFY24 performance was operationally weak as revenue/EBITDA came in lower at INR42.3b/INR5.6b (est. INR45.7b/INR6.3b). However, higher other income and lower tax led to PAT beat. The management expects FY25 revenue growth to be similar to FY24 levels.
- We raise our FY25E/FY26E EPS by ~1%/5% to factor in higher other income and lower tax. After the recent run-up, the stock at ~38.5x/33.2x FY25E/FY26E EPS appears fairly valued. We reiterate our Neutral stance on BOS with a TP of INR28,585 (based on ~30x FY26E EPS).

# Weak tractor demand dents growth for mobility division

- Revenue/EBITDA/adj. PAT rose 4%/7%/42% YoY to INR42.3b/INR5.6b/ INR5.6b in 4QFY24 (vs. est. INR45.7b/INR6.2b/INR4.8b). FY24 revenue/ EBITDA/adj. PAT grew 13%/21%/25% YoY.
- Mobility business grew by ~2.7% YoY, driven by 9.4% growth in mobility aftermarket division and 17.6% growth in 2Ws. Power solutions remained relatively flat. Consumer goods and building technologies grew ~16%/17% YoY.
- Gross margins contracted 150bp YoY (-320bp QoQ) to 34.5%, driven by a weaker mix. Lower gross margin was partially offset by lower other expenses as EBITDA margins grew 30bp YoY (-60bp QoQ) to 13.2% (est. 13.6%).
- PBIT margins for the mobility division expanded ~180bp YoY to 13.9%, while it declined 100bp YoY for non-mobility to 11.4%.
- Further, higher other income and lower tax resulted in a beat in adj. PAT, which came in at INR5.6b (est.INR4.8b), up ~41.5% YoY. CFO/FCF for the year grew ~3%/61% YoY.
- BOS declared a dividend of INR375/share for FY24 (vs. INR480 for FY23).

# Highlights from the management commentary

- Outlook: Given the high base for most segments, the management expects overall auto industry growth to moderate in CY24. It expects FY25 revenue growth to be similar to FY24 levels. While it expects 1Q to be much slower due to elections, demand is expected to pick up from 2Q onward.
- Hydrogen ICE technology is currently undergoing design maturity with most OEMs. Most of the OEM partners are currently testing/running products based on Hydrogen ICE either within their facility or on the road for testing. BOS expects penetration of this technology in CVs in India at 10-15% by 2030.
- Localization: BOS continues to have varied levels of content localization ranging from 90-95% for some matured products to 30-60% for others. OEMs continue to encourage localization and have already decided to localize EGT solution and its SOP would be Apr'25.

Aniket Mhatre - Research analyst (Aniket.Mhatre@MotilalOswal.com)

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

MOTILAL OSWAL

Update on EV orders: BOS has indicated that it has a good share of orders in 2W EVs. It is also in serious discussions with multiple OEMs for the supply of e-axles and electronics for EVs.

# Valuation and view

1,035

23.6

3,342

3,342

28.7

1,146

3,724

3,724

0.1

23.5

1,057

24.9

3,189

3,189

35.7

- We believe BOS would be outperforming the underlying auto industry growth with new order wins and content increases. We expect BOS to deliver a 24% earnings CAGR over FY24-26E (on the back of 13% revenue CAGR).
- We increase our FY25E/FY26E EPS by ~1%/5% to factor in higher other income and lower tax. After its recent run-up, the stock at ~38.5x/33.2x FY25E/FY26E EPS appears fairly valued. Hence, we reiterate our Neutral rating with a TP of INR28,585 (premised on ~30x FY26E EPS).

(INR Million)

6,905

21.7

24,905

18,058

26.8

1,668

25.6

4,841

4,841

21.3

Y/E March	FY23			FY24				FY23	FY24		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			4QE
Net Sales	35,444	36,616	36,599	40,634	41,584	41,301	42,052	42,334	1,49,293	1,67,271	45,712
YoY Change (%)	45.1	25.5	17.7	22.7	17.3	12.8	14.9	4.2	26.7	12.0	12.5
RM Cost (% of sales)	64.6	64.9	60.0	64.0	64.5	66.8	62.3	65.5	63.4	64.8	63.0
Staff Cost (% of sales)	7.6	7.5	7.4	8.1	7.4	8.1	7.9	8.5	7.7	8.0	7.7
Other Expenses (% of sales)	15.6	16.4	23.3	15.9	17.9	13.2	16.0	12.8	16.8	14.7	15.8
EBITDA	4,495	4,311	4,037	5,224	4,679	4,913	5,784	5,572	18,067	20,948	6,212
Margins (%)	12.7	11.8	11.0	12.9	11.3	11.9	13.8	13.2	12.1	12.5	13.6
Depreciation	648	919	1,083	1,206	921	1,013	1,173	1,188	3,856	4,295	1,245
Interest	36	19	20	46	308	122	39	39	121	508	51
Other Income	566	1,497	1,312	1,359	1,875	1,542	1,548	2,262	4,734	7,227	1,593
PBT before EO expense	4,377	4,870	4,246	5,331	5,325	5,320	6,120	6,607	18,824	23,372	6,509
Extra-Ord expense	0	0	0	0	0	-7,850	-588	0	0	-8,438	0
PBT after EO Expense	4,377	4,870	4,246	5,331	5,325	13,170	6,708	6,607	18,824	31,810	6,509

1,341

25.2

3,990

3,990

13.8

1,235

23.2

4,090

4,090

22.4

3,181

24.2

9,989

3,843

3.2

1,527

22.8

5,181

4,721

48.0

962

14.6

5,645

5,645

41.5

4,579

24.3

17.0

14,245

14,245

YoY Change (%) E: MOFSL Estimates

Tax Rate (%)

**Reported PAT** 

Adj PAT

Segmental Mix (INR m)

Quarterly performance (S/A)

		FY	23			FY	24		FY23	FY24
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		
Auto	31,092	31,505	32,399	34,165	36,232	35,708	36,522	35,114	1,29,161	1,43,576
Growth (%)	44.7	29.3	18.2	26.0	16.5	13.3	12.7	2.8	28.7	11.2
PBIT margin (%)	13.6	12.1	11.2	12.1	10.9	12.5	14.2	13.9	12.2	12.9
Contribution (%)	87.7	86.0	88.6	84.1	87.1	86.5	86.8	82.9	86.5	96.2
Non-Auto	4,388	5,237	4,464	6,684	5,424	5,634	5,764	7,256	20,787	24,078
Growth (%)	48.0	5.1	8.6	6.2	23.6	7.6	29.1	8.6	14.5	15.8
PBIT margin (%)	9.8	12.6	11.7	12.4	16.4	9.3	13.5	11.4	11.8	12.5
Contribution (%)	12.4	14.3	12.2	16.4	13.0	13.6	13.7	17.1	13.9	16.1
a) Consumer goods	3,188	3,528	2,547	4,757	3,754	3,897	3,336	5,237	14,034	16,224
Growth (%)	52.2	(0.3)	5.2	(1.1)	17.8	10.5	31.0	10.1	10.9	15.6
PBIT margin (%)	5.8	11.1	6.2	8.9	15.5	7.2	11.7	11.5	8.2	11.4
b) Others	1,200	1,709	1,917	1,927	1,670	1,737	2,428	2,019	6,753.0	7,854.0
Growth (%)	38.1	18.1	13.3	29.7	39.2	1.6	26.7	4.8	22.9	16.3
PBIT margin (%)	20.4	15.9	19.0	21.2	18.3	14.0	16.1	11.2	19.1	14.8
Total Revenue (post inter segment)	35,444	36,616	36,585	40,634	41,584	41,301	42,052	42,334	1,49,293	1,67,271
Growth (%)	45.1	25.5	16.9	22.7	17.3	12.8	14.9	4.2	26.8	12.0

E:MOFSL Estimates

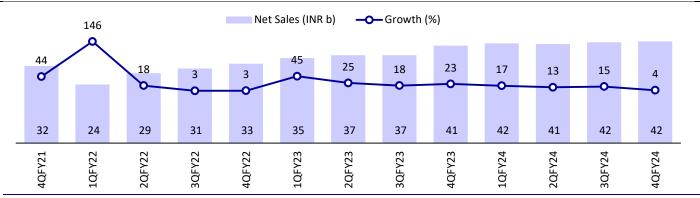
MOTILAL OSWAL

# Key takeaways from the management commentary

- Outlook- Given the high base for most segments, the management expects overall auto industry growth to moderate in CY24. The management expects FY25 revenue growth to be similar to FY24 levels. While 1Q is expected to be much slower due to elections-led issues, demand is expected to pick up from 2Q onward.
- The contribution of exports stood at 8.1% in FY24 and it should continue to increase in the coming years.
- 4Q highlights: 4Q revenue grew 4% YoY, driven by mobility aftermarket, 2Ws and consumer goods segments.
- The mobility aftermarket segment grew 9.4% YoY, led by good demand for spark plugs and diesel products.
- 2W segment posted 17.6% YoY growth
- ➤ However, power solutions segment remained flat YoY due to weak demand from the tractor segment.
- Consumer good business grew 10.5% YoY. Building technology solutions posted 13.9% YoY growth due to execution of higher orders for security systems.
- **FY24 update** Revenue grew 12% YoY, driven by mobility and consumer goods segments.
- ➤ The mobility segment grew 11% YoY, driven by 10.9% YoY growth in the power solution segment, which was in turn driven by strong growth in PVs and HCVs and higher content per vehicle (exhaust gas treatment solution post BS6).
- The aftermarket segment grew 10.2% YoY to record its highest-ever sales, led by good demand for spark plugs, filters and lubricants. Independent aftermarket now contributes to 63% of business and grew 9.1% YoY. This segment now boasts 50k touch points spanning 650 districts and 15k different part numbers. This division has also ventured into the home segment with the launch of i6 invertor battery for power backup solutions.
- ➤ 2W segment posted 19.2% YoY growth, led by good demand for fuel injectors from TVS and BAL. 2W sales are expected to rise in FY25 due to pre-buying impact of OBD 2.2 to be implemented in 2025.
- The business beyond mobility solutions grew 17.7%. Consumer goods business grew 15.8% YoY led by higher sales in tools and accessory. The building technology solution posted 17% YoY growth due to the installation of a higher number of security cameras, led by significant wins across segments like metros, airports, and garment, energy and consumer sectors. The management has a positive growth outlook for this segment.
- ➤ The power tools segment has gained market share across segments and this trend is expected to continue going ahead. BOS would focus on cordless tools, industrial tools, dealer engagement and innovative new product launches tailored for medium and entry-level segments. The cordless tool segment reached 11% of total sales in this segment.
- ➤ BOS hived off OE/OES diagnostic business from mobility aftermarket division (revenue of INR360m) as part of the restructuring exercise undertaken by parent with an intention to focus on the core. BOS hived off this business as the future outlook for this business was weak as it was likely to be shifted online. The management has indicated that this exercise is not fully complete.

- ➤ The parent is looking to divest its building technology business, which is expected to conclude in 1Q or 2QFY25.
- **Hybrids-** The management indicated that hybrid technology is currently seeing rapid acceptance in many developed markets, including China. However, BOS maintains its view that hybrids have a limited time window. Nevertheless, it has a full range of products in hybrids globally. While MSIL and Toyota have launched vehicles on Toyota's hybrid technology in India, BOS is in discussions with multiple domestic OEMs for a range of hybrid solutions.
- **Localization** BOS continues to have varied levels of content localization ranging from 90-95% for some matured products to 30-60% for others. OEMs continue to encourage localization.
- In cases of mandatory localization required by the government, BOS is localizing components even if the cost of importing a particular technology is lower than that after localization. OEMs are aware and supportive of such initiatives.
- ➤ BOS has already taken a decision to localize EGT solutions and its SOP would be Apr'25.
- In certain segments like spark plugs, BOS localizes considering not just the domestic opportunity but also for some export markets.
- ➤ The current deadline for Trem5 for tractors is Apr'26 and the management is hopeful that this deadline will not be postponed again. BOS would be starting with a fairly high level of localization.
- Hydrogen ICE in India: This technology is currently undergoing design maturity with most OEMs. Most of the OEM partners are currently testing or running products based on Hydrogen ICE either within their facility or on the road for testing. BOS expects penetration of this technology in Indian CVs to be 10-15% by 2030.
- Update on EV orders: BOS has indicated that it has a good share of orders in 2W EVs. BOS is also in serious discussions with multiple OEMs for the supply of eaxles and electronics for EVs.
- It expects to sustain capex at around INR4-6b per annum in the coming years.

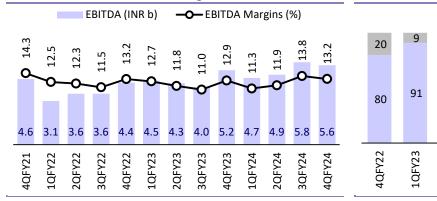
Exhibit 1: Trend in revenue

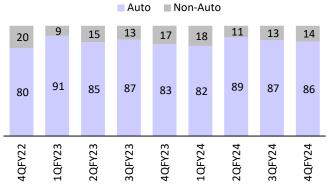


Source: Company, MOFSL

**Exhibit 2: EBITDA and EBITDA margin trends** 

### Exhibit 3: Share of Auto and non-Auto in PBIT





Source: Company, MOFSL

Source: Company, MOFSL

# Valuation and view

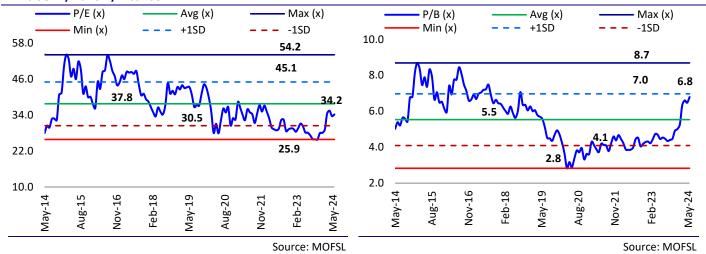
- BOS has a long-term strategy of shaping the market in key technologies, with innovative products and solutions. BOS maintains its stance of being a technology-agnostic partner with customers, governments, and stakeholders. It has continued with critical investments in competence development and solutions designed/developed for India. In the non-auto businesses, BOS has adopted a two-pronged approach. It continues to introduce 'fit-for-market' products and solutions and plans to increase its 'go-to-market' footprint, using both offline and digital platforms.
- The electrification of 2Ws/3Ws opens up new growth avenues as BOS will be better positioned in these segments for EVs. Our estimates do not factor in any material contributions from e-2W/3Ws as the competitive landscape is yet to stabilize.
- With improving localization and operating leverage in FY25E, EBITDA margin will recover to over 14.8%, after falling to ~10.3%/12.4% in FY21/FY22 (vs. 12.5% in FY24). This would result in a 24% earnings CAGR over FY24-26E (on the back of 13% revenue CAGR).
- We increase our FY25E/FY26E EPS by ~1%/5% to factor in higher other income and lower tax. BOS is expected to continue to outperform the underlying auto industry growth with new order wins. After its recent run-up, the stock at ~38.5x/33.2x FY25E/FY26E EPS appears fairly valued. Hence, we reiterate our Neutral rating with a TP of INR28,585 (premised on ~30x FY26E EPS).

**Exhibit 4: Revisions to our estimates** 

(INR b)		FY25E		FY26E			
	Rev	Old	Chg (%)	Rev	Old	Chg (%)	
Net Sales	191.4	191.4	0.0	214.8	214.8	0.0	
EBITDA Margin (%)	14.3	14.8	-60bp	14.8	14.8	-10bp	
PAT	24.2	23.9	1.2	28.0	26.8	4.6	
EPS (INR)	821.1	811.6	1.2	950.9	909.3	4.6	

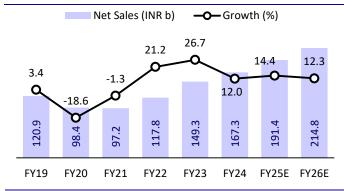
MOTILAL OSWAL





# **Key operating indicators**

**Exhibit 6: Trend in sales** 



**Exhibit 7: Segment mix** 

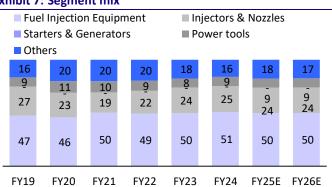


Exhibit 8: Gross margin vs. EBITDA margin

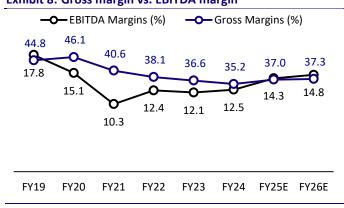


Exhibit 9: Trend in dividend payout

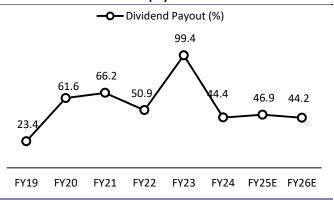


Exhibit 10: FCF and net cash

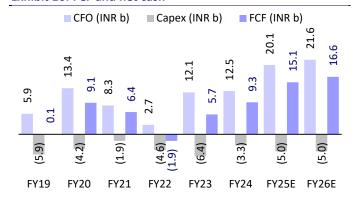
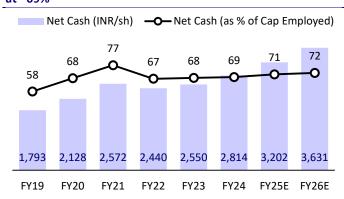


Exhibit 11: Cash, as a percentage of capital employed, stands at  $^{\sim}69\%$ 



**Exhibit 12: EPS and EPS growth trends** 

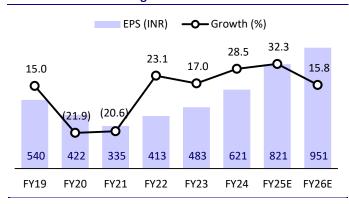
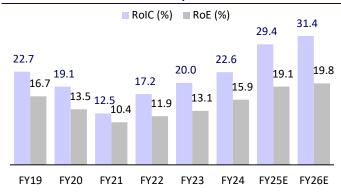


Exhibit 13: Trend in BOS' return profile



Source: Company, MOFSL Source: Company, MOFSL

# **Financials and valuations**

Standalone - Income Statement							(II	NR Million)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Net Op. Revenues	1,20,850	98,416	97,180	1,17,816	1,49,293	1,67,271	1,91,354	2,14,841
Change (%)	3.4	-18.6	-1.3	21.2	26.7	12.0	14.4	12.3
EBITDA	21,541	14,834	10,039	14,624	18,067	20,948	27,293	31,754
Margin (%)	17.8	15.1	10.3	12.4	12.1	12.5	14.3	14.8
Depreciation	4,021	3,833	3,414	3,243	3,856	4,295	4,367	4,667
EBIT	17,520	11,001	6,624	11,381	14,211	16,653	22,926	27,087
Fin. charges	133	102	140	289	121	508	300	200
Other Income	5,953	5,466	5,040	3,909	4,734	7,227	8,025	8,609
PBT bef. EO Exp.	23,340	16,365	11,524	15,001	18,824	23,372	30,651	35,496
EO Income/(Exp)	0	-8,416	-5,555	0	0	8,438	0	0
PBT after EO Exp.	23,340	7,948	5,969	15,001	18,824	31,810	30,651	35,496
Current Tax	7,051	3,324	1,630	1,930	4,338	5,978	6,437	7,454
Deferred Tax	355	-1,424	-784	899	241	927	0	0
Tax Rate (%)	31.7	23.9	14.2	18.9	24.3	21.7	21.0	21.0
Reported PAT	15,934	6,048	5,123	12,172	14,245	24,905	24,215	28,042
Adjusted PAT	15,934	12,452	9,890	12,172	14,245	18,299	24,215	28,042
Change (%)	11.1	-21.9	-20.6	23.1	17.0	28.5	32.3	15.8

Standalone - Balance Sheet							(1	NR Million)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Equity Share Capital	295	295	295	295	295	295	295	295
Total Reserves	90,967	92,399	97,927	1,06,584	1,09,827	1,20,337	1,33,198	1,48,854
Net Worth	91,262	92,694	98,222	1,06,879	1,10,122	1,20,632	1,33,493	1,49,149
Total Loans	0	0	0	0	532	393	393	393
Capital Employed	91,262	92,694	98,222	1,06,879	1,10,654	1,21,025	1,33,886	1,49,542
Gross Block	28,991	34,629	36,339	38,738	42,482	45,903	51,143	56,143
Less: Accum. Deprn.	17,338	21,271	23,983	26,623	30,479	34,774	39,141	43,808
Net Fixed Assets	11,653	13,358	12,356	12,115	12,003	11,129	12,002	12,335
Capital WIP	6,546	4,932	4,928	6,054	3,655	2,240	2,000	2,000
Total Investments	40,538	40,415	51,571	55,275	55,536	57,820	67,820	79,820
Curr. Assets, Loans&Adv.	63,764	69,928	73,821	76,499	87,619	99,482	1,13,880	1,25,144
Inventory	14,443	11,159	12,985	17,293	19,029	18,934	23,592	26,487
Account Receivables	15,675	14,131	13,894	15,267	19,029	21,818	24,640	27,665
Cash and Bank Balance	12,527	22,560	24,505	17,054	20,569	25,927	27,378	28,024
Loans and Advances	21,118	22,079	22,438	26,885	28,992	32,803	38,271	42,968
Curr. Liability & Prov.	35,834	40,506	49,514	47,225	51,940	52,523	64,694	72,634
Account Payables	15,885	16,050	22,230	22,404	27,253	25,676	34,077	38,259
Other Current Liabilities	9,200	8,277	14,171	11,174	12,196	12,228	15,308	17,187
Provisions	10,749	16,180	13,113	13,647	12,491	14,619	15,308	17,187
Net Current Assets	27,929	29,422	24,308	29,274	35,679	46,959	49,187	52,510
Deferred Tax assets	4,596	4,567	5,059	4,161	3,781	2,877	2,877	2,877
Appl. of Funds	91,262	92,694	98,222	1,06,879	1,10,654	1,21,025	1,33,886	1,49,542

E: MOFSL Estimates

# **Financials and valuations**

Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Basic (INR)								
EPS	540	422	335	413	483	621	821	951
Cash EPS	677	552	451	523	614	766	969	1,109
BV/Share	3,095	3,143	3,331	3,624	3,734	4,091	4,527	5,058
DPS	105	105	115	210	480	375	385	420
Payout (%)	23.4	61.6	66.2	50.9	99.4	44.4	46.9	44.2
Valuation (x)								
P/E	58.4	74.8	94.2	76.5	65.4	50.9	38.5	33.2
Cash P/E	46.7	57.2	70.0	60.4	51.4	41.2	32.6	28.5
P/BV	10.2	10.0	9.5	8.7	8.5	7.7	7.0	6.2
EV/Sales	7.6	9.2	9.3	7.8	6.1	5.4	4.7	4.2
EV/EBITDA	42.7	61.3	90.3	62.5	50.4	43.2	33.1	28.5
Dividend Yield (%)	0.3	0.3	0.4	0.7	1.5	1.2	1.2	1.3
FCF per share	2.6	309.2	217.4	-64.8	194.7	314.2	511.3	563.7
Return Ratios (%)								
RoIC	22.7	19.1	12.5	17.2	20.0	22.6	29.4	31.4
RoE	16.7	13.5	10.4	11.9	13.1	15.9	19.1	19.8
RoCE (pre-tax)	24.6	17.9	12.2	14.9	17.4	20.6	24.3	25.2
<b>Working Capital Ratios</b>								
Fixed Asset Turnover (x)	4.2	2.8	2.7	3.0	3.5	3.6	3.7	3.8
Asset Turnover (x)	1.3	1.1	1.0	1.1	1.4	1.4	1.5	1.5
Inventory (Days)	44	41	49	54	47	41	45	45
Debtor (Days)	47	52	52	47	47	48	47	47
Creditor (Days)	48	60	83	69	67	56	65	65
Working Cap. Turnover (Days)	47	25	-1	38	37	46	42	42
Standalone - Cash Flow Statement							(IN	IR Million)
V/C Mouch	EV10	EV20	EV21	EV22	EV22	EV24	TV2FF.	FV26

Standalone - Cash Flow Statement							(1	NR Million)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
OP/(Loss) before Tax	23,410	10,069	5,671	15,001	18,824	23,372	30,651	35,496
Depreciation	4,045	4,445	3,414	3,243	3,856	4,295	4,367	4,667
Interest & Finance Charges	-2,769	-2,948	-2,377	-2,096	-2,670	-4,018	-7,725	-8,409
Direct Taxes Paid	-7,822	-4,612	-2,695	-2,664	-4,031	-6,958	-6,437	-7,454
(Inc)/Dec in WC	-6,888	10,206	6,320	-9,404	-2,501	-2,061	-777	-2,677
Others	-4,044	-3,799	-1,984	-1,374	-1,342	-2,102	0	0
CF from Operating incl EO	5,931	13,361	8,349	2,706	12,136	12,528	20,079	21,623
(Inc)/Dec in FA	-5,854	-4,243	-1,938	-4,617	-6,395	-3,261	-5,000	-5,000
Free Cash Flow	78	9,118	6,411	-1,911	5,741	9,267	15,079	16,623
(Pur)/Sale of Investments	15,821	782	-5,087	-1,837	8,079	1,537	-10,000	-12,000
Others	7,691	-5,267	2,395	6,122	934	4,552	8,025	8,609
CF from Investments	17,659	-8,729	-4,630	-332	2,618	2,828	-6,975	-8,391
Issue of Shares	-21,569	0	0	0	0	0	0	0
Interest Paid	-60	0	-16	-150	-62	-22	-300	-200
Dividend Paid	-3,679	-3,731	-3,095	-3,394	-12,092	-14,312	-11,354	-12,386
Others	0	-259	-271	-287	-240	-182	0	0
CF from Fin. Activity	-25,308	-3,990	-3,382	-3,831	-12,394	-14,516	-11,654	-12,586
Inc/Dec of Cash	-1,717	642	337	-1,457	2,360	840	1,451	646
Opening Balance	3,627	1,910	2,552	2,889	1,432	3,792	4,632	6,083
Closing Balance	1,910	2,552	2,889	1,432	3,792	4,632	6,083	6,729

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

# 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 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 Motifal Oswal Financial Services Limited are available on the website at http

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 <a href="https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx">https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx</a> A graph of daily closing prices of securities is available at <a href="https://www.nseindia.com">www.nseindia.com</a>, www.bseindia.com</a>, 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 Motifal 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, Motifal 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

# For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets (Singapore) Pte. Ltd. ("MOCMSPL") (UEN 201129401Z), which is a holder of a capital markets services license and an exempt financial adviser in Singapore. This report is distributed solely to persons who (a) qualify as "institutional investors" as defined in section 4A(1)(c) of the Securities and Futures Act of Singapore ("SFA") or (b) are considered "accredited investors" as defined in section 2(1) of the Financial Advisers Regulations of Singapore read with section 4A(1)(a) of the SFA. Accordingly, if a recipient is neither an "institutional investor" nor an "accredited investor", they must immediately discontinue any use of this Report and inform MOCMSPL

In respect of any matter arising from or in connection with the research you could contact the following representatives of MOCMSPL. In case of grievances for any of the services rendered by MOCMSPL write to grievances@motilaloswal.com

# Nainesh Raiani

Email: nainesh.rajani@motilaloswal.com Contact: (+65) 8328 0276

- 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

# 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
- 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)

28 May 2024 11

- 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 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
B :	(100001) 117000150000 (0001100111001110011100111	0001 111001 11100 10 0015 0 1 1 1 1 1 11110000001110 11151

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412 . AMFI: ARN .: 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance, Bond, NCDs and IPO products.

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