

United Breweries

Estimate change	↔
TP change	↔
Rating change	↔

Bloomberg	UBBL IN
Equity Shares (m)	264
M.Cap.(INRb)/(USD\$)	369.8 / 4.5
52-Week Range (INR)	1805 / 1342
1, 6, 12 Rel. Per (%)	-5/-15/-14
12M Avg Val (INR M)	383

Financials & Valuations (INR b)

Y/E March	FY23	FY24E	FY25E
Net Sales	75.0	85.1	97.5
Sales Gr. (%)	28.5	13.5	14.5
EBITDA	6.2	9.7	14.2
Margin (%)	8.2	11.4	14.5
Adj. PAT	3.3	5.9	9.0
Adj. EPS (INR)	12.5	22.3	34.1
EPS Gr. (%)	-3.0	79.3	52.4
BV/Sh. (INR)	150.0	161.9	180.2

Ratios

RoE (%)	8.3	14.3	19.9
RoCE (%)	8.1	14.5	20.1

Valuations

P/E (x)	112.3	62.6	41.1
P/BV (x)	9.3	8.6	7.8
EV/EBITDA (x)	59.4	37.4	25.6

Shareholding pattern (%)

As On	Mar-23	Dec-22	Mar-22
Promoter	72.7	72.7	72.7
DII	15.6	15.1	13.1
FII	6.4	6.9	8.7
Others	5.3	5.3	5.5

FII Includes depository receipts

CMP: INR1,399 TP: INR1,190 (-15%) Sell

Margin pressure to continue till 2HFY24

- The company's 4QFY23 results were disappointing across all metrics. Volume growth was only 3%; however, when adjusted for route-to-market changes, it was at 17%. The management indicated that the demand has been adversely impacted in the northern region due to unseasonal rainfall.
- Gross margin came at just 38.6%, and is at its lowest level. It was adversely impacted by high barley and packaging costs and adverse state mix. The company has started procuring new barley but it is expected to face pricing pressure until 1QFY24, due to the impact of the high-cost purchases made earlier. Bottling cost pressure is expected to continue till 2QFY24 on account of short supply.
- We have sharply reduced our FY23 estimates to account for gross margin pressure and FY24 earnings estimates is reduced by ~3%. We reiterate our **SELL rating on the stock**.

Huge miss in overall performance

- UBBL's standalone net sales remained flat YoY at INR17.6b (est. INR18.6b). EBITDA declined 79.5% YoY to INR535m (est. INR2.1b). PBT before exceptional items fell 93.9%YoY to INR132m (est. INR1.7b), while adjusted PAT declined 94% YoY to INR97m (est. INR1.3b).
- 4QFY23 volumes grew 3% YoY, while FY23 volumes rose 31% YoY.
- Gross margin declined 10.1% YoY/320bp QoQ to 38.6% (est. 43.5%), due to high costs of barley and packaging materials.
- As a percentage of sales, higher employee expenses (up 170bp YoY) and higher other expenses (up 50bp YoY) led to standalone EBITDA margin contraction of 12.3% YoY to 3.0% (est. 11.1%).
- FY23 net sales grew 28.5% to INR75b, while EBITDA/adjusted PAT declined 11.5%/10% YoY to INR6.2b/INR3.3b.

Highlights of the management commentary

- Volume growth was 3% in 4QFY23. It continued to face RTM headwinds. Volume growth was 17% ex-RTM headwinds (ex-Delhi, Chhattisgarh, AP, and Tamil Nadu).
- Gross margin is under pressure due to barley and packaging costs, and the adverse impact of state-mix.
- The company is experiencing pressure on bottling costs, which is expected to persist, primarily due to a shortage of supply in the market.
- New barley crop is of good quality; however, there is a bit of moisture.
- The company has lost market share in Karnataka due to the growth of economic segment. Additionally, due to the recent elections, there have been some administrative and supply issues in the region.

Valuation and view

- We reduce our FY23/FY24 EPS forecasts by ~14%/3%% due to a big miss in 4QFY23 results and persistent material cost inflation is likely in the crucial summer season.
- In a [Feb'22 note](#), we had pointed out the risk of a steep material cost increase for alcobev players with limited pricing power, and over the past year, margin pressure was intense, resulting in a 5-8% YoY decline in the stock price of UBBL and UNSP. Except for the Covid-hit period of FY21, UBBL's FY23 EBITDA margin is expected to fall to its lowest level since FY'05.
- Although, unlike other discretionary categories, the demand trend for alcobev companies has not worsened much, the 3/4-year sales CAGR of 7.4%/2% at the end of 4QFY23 is still weak. We reiterate our SELL rating on the stock with a TP of INR1,190 (targeting 22x FY25 EV/EBITDA).

Standalone Quarterly Performance

(INR m)

Y/E March	FY22				FY23				FY22	FY23	FY23	Variance
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			4QE	
Net Sales	11,180	14,262	15,809	17,069	24,367	16,796	16,110	17,645	58,384	74,999	18,627	-5.3%
YoY Change (%)	120.6	58.4	22.6	10.6	117.9	17.8	1.9	3.4	37.7	28.5	9.1	
Gross Profit	5,404	7,380	7,899	8,310	10,784	7,837	6,741	6,812	29,123	32,346	8,109	-16.0%
Margin (%)	48.3	51.7	50.0	48.7	44.3	46.7	41.8	38.6	49.9	43.1	43.5	
EBITDA	954	1,656	2,096	2,603	2,825	2,191	766	535	6,966	6,162	2,062	-74.1%
YoY Change (%)	L/P	309.6	6.7	-0.4	196.1	32.3	-63.4	-79.5	73	-11.5	-20.8	
Margins (%)	8.5	11.6	13.3	15.3	11.6	13.0	4.8	3.0	11.9	8.2	11.1	
Depreciation	552	556	529	532	575	520	502	507	2,172	2,106	540	
Interest	39	47	37	25	8	10	16	12	148	46	30	
Other Income	61	46	60	130	104	143	130	116	298	494	160	
PBT before EO expense	425	1,098	1,590	2,176	2,345	1,805	379	132	4,944	4,504	1,652	
Tax	117	291	421	547	554	463	152	35	1,284	1,210	389	
Rate (%)	27.4	26.5	26.5	25.1	23.6	25.6	40.2	26.3	27.4	29.6	23.5	
Adj PAT	308	806	1,168	1,630	1,792	1,342	226	97	3,661	3,295	1,263	-92.3%
YoY Change (%)	L/P	1,911.2	14.1	2.5	480.9	66.4	-80.6	-94.0	131.2	-10.0	-22.5	
Margins (%)	2.8	5.7	7.4	9.5	7.4	8.0	1.4	0.6	6.3	4.4	6.8	

Quarterly numbers are on standalone basis while yearly number are on consolidated basis

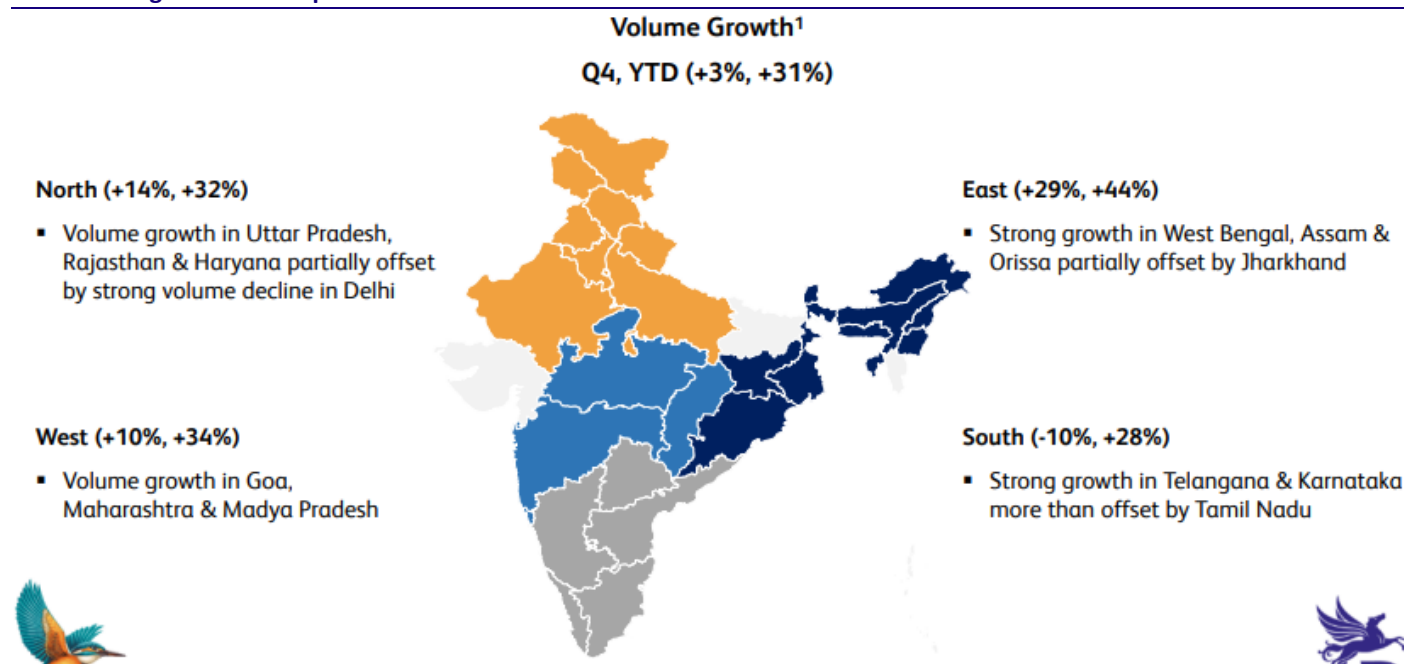
Key Performance Indicators

Y/E March	FY22				FY23			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
2Y average growth (%)								
Sales	22.7	7.7	5.6	9.5	119.3	38.1	12.2	7.0
EBITDA	-	115.3	-2.3	48.6	196.1	171.0	-28.4	-39.9
PAT	-	907.4	4.9	144.2	NM	NM	-33.3	-45.8
% of Sales								
COGS	51.7	48.3	50.0	51.3	55.7	53.3	58.2	61.4
Employee Expenses	10.1	9.4	9.3	7.3	5.4	8.3	9.0	9.0
Other Expenses	29.7	30.7	27.4	26.1	27.3	25.3	28.1	26.6
Depreciation	4.9	3.9	3.3	3.1	2.4	3.1	3.1	2.9
YoY change (%)								
COGS	113.6	60.1	32.9	18.2	135.1	30.2	18.5	23.7
Employee Expenses	-1.4	22.0	18.2	-6.1	15.7	3.6	-1.4	27.2
Other Expenses	52.7	36.8	15.9	9.2	100.5	-2.9	4.4	5.2
Other Income	331.9	-86.0	30.7	12.2	70.1	214.5	114.7	-10.4
EBIT	-127.5	-628.9	13.0	4.1	458.7	52.0	-83.1	-98.6

Takeaways from the investor presentation and press release

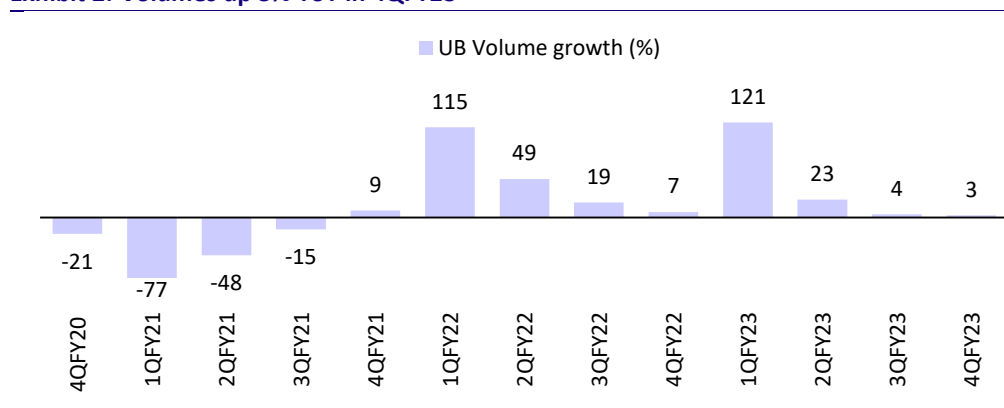
- FY23 volume growth was driven by Telangana, Rajasthan, West Bengal, and Maharashtra.
- The premium segment recorded 19% growth in 4QFY23 YoY and 58% in FY23.
- FY23 capex stood at INR1560m.
- The management expects inflationary pressure to continue in the near term.
- Price increases have been taken in multiple states.
- Mr.Rishi Pardal, MD & CEO, has been relieved from his duties w.e.f. 4th May'23.

Exhibit 1: Regional volume performance



Source: Company presentation

Exhibit 2: Volumes up 3% YoY in 4QFY23



Sources: MOFSL, Company reports



Conference call highlights

Environment and outlook

- Volume growth was 3% in 4QFY23. It continued to face RTM headwinds. Volume growth was 17% ex-RTM headwinds (ex-Delhi, Chhattisgarh, AP, and Tamil Nadu).
- Premium segment volume share would be ~21-22%.
- The management remains committed toward revenue management activities and are already reaping its benefits.
- Lower demand in the northern region is attributed to unseasonal rains.
- The company lost low-single digit market share ex-Tamil Nadu.
- The company has lost market share in Karnataka due to the growth of economic segment. Additionally, due to the recent elections, there have been some administrative and supply issues in the region.
- Premium portfolio market share was flat during the quarter.
- Price increases taken across multiple states. They got double-digit price increase in Rajasthan in March.
- The company is in the process of discussion with other states for price increases.

Costs and margins

- Gross margin is under pressure due to barley and packaging costs and the adverse impact of state-mix.
- 1QFY24 would continue to see headwind on margins.
- The company is experiencing pressure on bottling costs, which is expected to persist, primarily due to a shortage of supply in the market.
- New barley crop is of good quality; however, there is a bit of moisture.
- They have already started purchasing the new barley and procurement prices are near about management estimates.

Other points

- Regional volumes: North grew 14%, West grew 10%, East grew 29%, and South declined 10%.
- Capex for FY24 would be ~NR2.5-3b.

Valuation and view

- We reduce our FY23/FY24 EPS forecasts by ~14%/3%, due to a big miss in 4QFY23 results and persistent material cost inflation is likely in the crucial summer season.
- In a [Feb'22 note](#), we had pointed out the risk of a steep material cost increase for alcobev players with limited pricing power, and over the past year, margin pressure was intense, resulting in a 5-8% YoY decline in the stock price of UBBL and UNSP. Except for the Covid-hit period of FY21, UBBL's FY23 EBITDA margin is expected to fall to its lowest level since FY'05.
- Although, unlike other discretionary categories, the demand trend for alcobev companies has not worsened much, the 3/4-year sales CAGR of 7.4%/2% at the end of 4QFY23 is still weak. We reiterate our SELL rating on the stock with a TP of INR1,190 (targeting 22x FY25 EV/EBITDA).

Exhibit 3: We cut our FY24E/FY25E PAT by 13.8%/3.2%

INR m	New		Old		Change (%)	
	FY24E	FY25E	FY24E	FY25E	FY24E	FY25E
Total Income	85,124	97,467	85,008	95,209	0.1	2.4
EBITDA	9,745	14,170	11,153	14,750	(12.6)	(3.9)
Adjusted PAT	5,908	9,004	6,856	9,300	(13.8)	(3.2)

Exhibit 4: UBBL's P/E (x)

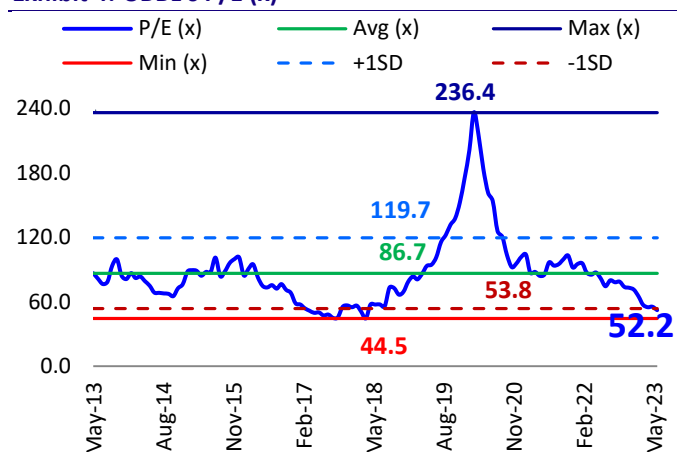
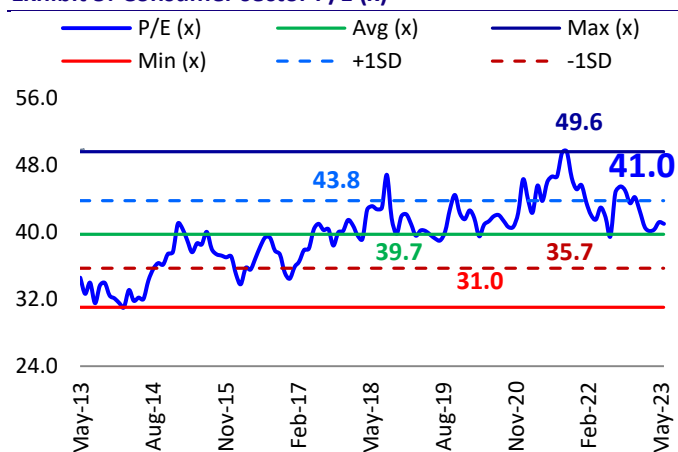


Exhibit 5: Consumer sector P/E (x)



Financials and valuations

Consolidated - Income Statement

(INR m)

Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Total Income from Operations	56,196	64,754	65,092	42,431	58,384	74,999	85,124	97,467
Change (%)	18.1	15.2	0.5	-34.8	37.6	28.5	13.5	14.5
Raw Materials	26,315	30,077	31,511	20,294	29,261	42,654	47,260	51,136
% of Sales	46.8	46.4	48.4	47.8	50.1	56.9	55.5	52.5
Gross Profit	29,881	34,678	33,581	22,137	29,123	32,346	37,864	46,332
Margin (%)	53.2	53.6	51.6	52.2	49.9	43.1	44.5	47.5
Employees Cost	3,992	4,484	5,041	4,855	5,231	5,955	6,789	7,739
% of Sales	7.1	6.9	7.7	11.4	9.0	7.9	8.0	7.9
Other Expenses	16,864	18,810	19,782	13,472	16,926	20,228	21,330	24,422
% of Sales	30.0	29.0	30.4	31.7	29.0	27.0	25.1	25.1
Total Expenditure	47,170	53,371	56,334	38,620	51,418	68,837	75,379	83,297
% of Sales	83.9	82.4	86.5	91.0	88.1	91.8	88.6	85.5
EBITDA	9,025	11,384	8,758	3,811	6,966	6,162	9,745	14,170
Margin (%)	16.1	17.6	13.5	9.0	11.9	8.2	11.4	14.5
Depreciation	2,597	2,599	2,851	2,320	2,172	2,106	2,294	2,541
EBIT	6,429	8,785	5,907	1,491	4,794	4,056	7,451	11,629
Int. and Finance Charges	456	239	287	181	148	46	73	128
Other Income	105	247	69	456	298	494	519	545
PBT bef. EO Exp.	6,078	8,793	5,689	1,766	4,944	4,504	7,898	12,045
PBT after EO Exp.	6,078	8,793	5,689	1,694	4,682	4,082	7,898	12,045
Total Tax	2,132	3,160	1,406	556	1,284	1,210	1,990	3,035
Tax Rate (%)	35.1	35.9	24.7	32.8	27.4	29.6	25.2	25.2
Adjusted PAT	3,942	5,629	4,277	1,132	3,398	3,295	5,908	9,004
Change (%)	71.7	42.8	-24.0	-73.5	200.1	-3.0	79.3	52.4
Margin (%)	7.0	8.7	6.6	2.7	5.8	4.4	6.9	9.2

Consolidated - Balance Sheet

(INR m)

Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Equity Share Capital	264	265	264	264	264	264	264	264
Total Reserves	26,638	31,572	34,938	35,558	39,087	39,385	42,551	47,377
Net Worth	26,903	31,838	35,203	35,823	39,351	39,649	42,815	47,641
Minority Interest	29	30	33	38	41	46	46	46
Deferred Tax Liabilities	182	114	0	0	0	0	0	0
Total Loans	3,121	2,115	1,691	1,154	0	0	0	0
Capital Employed	30,235	34,097	36,927	37,014	39,393	39,695	42,861	47,687
Gross Block	37,208	39,954	45,077	47,808	49,615	51,102	55,602	62,602
Less: Accum. Deprn.	20,152	22,425	26,058	28,378	30,550	32,656	34,950	37,492
Net Fixed Assets	17,056	17,529	19,019	19,430	19,065	18,446	20,652	25,110
Goodwill on Consolidation	242	242	242	65	65	65	65	65
Capital WIP	723	1,899	1,991	1,288	1,099	771	1,504	2,401
Total Investments	2	3	3	61	84	81	81	81
Curr. Assets, Loans&Adv.	29,212	34,171	34,254	37,679	39,182	43,442	47,150	58,406
Inventory	8,080	10,325	10,939	11,367	9,358	14,278	13,708	18,336
Account Receivables	14,986	15,110	13,504	13,950	12,549	14,073	16,245	21,140
Cash and Bank Balance	242	462	786	4,693	9,097	3,953	5,726	7,114
Loans and Advances	5,904	8,275	9,025	7,669	8,178	11,138	11,472	11,816
Curr. Liability & Prov.	16,999	19,747	18,582	21,507	20,101	23,109	26,590	38,374
Account Payables	5,217	5,902	5,450	6,181	6,380	7,170	8,689	8,401
Provisions	11,782	13,845	13,131	15,326	13,721	15,939	17,901	29,973
Net Current Assets	12,212	14,424	15,672	16,171	19,081	20,333	20,561	20,031
Appl. of Funds	30,235	34,097	36,927	37,014	39,393	39,695	42,861	47,687

E: MOFSL Estimates

Financials and valuations

Ratios

Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Basic (INR)								
EPS	14.9	21.3	16.2	4.3	12.9	12.5	22.3	34.1
BV/Share	101.7	120.4	133.1	135.5	148.8	150.0	161.9	180.2
DPS	2.0	2.5	2.5	0.5	10.5	0.0	8.9	13.6
Payout (%)	13.4	11.7	15.5	11.7	81.7	0.0	40.0	40.0
Valuation (x)								
P/E	93.8	65.7	86.5	326.7	108.8	112.3	62.6	41.1
Cash P/E	56.6	44.9	51.9	107.1	66.4	68.5	45.1	32.0
P/BV	13.7	11.6	10.5	10.3	9.4	9.3	8.6	7.8
EV/Sales	6.6	5.7	5.7	8.6	6.2	4.9	4.3	3.7
EV/EBITDA	41.3	32.6	42.3	96.1	51.8	59.4	37.4	25.6
Dividend Yield (%)	0.1	0.2	0.2	0.0	0.8	0.0	0.6	1.0
Return Ratios (%)								
RoE	15.7	19.2	12.8	3.2	9.0	8.3	14.3	19.9
RoCE	14.3	18.1	12.7	3.5	9.7	8.1	14.5	20.1
RoIC	14.5	18.5	13.5	3.1	11.6	8.9	15.8	23.6
Working Capital Ratios								
Asset Turnover (x)	1.9	1.9	1.8	1.1	1.5	1.9	2.0	2.0
Inventory (Days)	51	52	60	96	65	58	60	60
Debtor (Days)	91	85	80	118	83	65	65	70
Creditor (Days)	32	31	32	50	39	33	34	32
Leverage Ratio (x)								
Debt/Equity	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Consolidated - Cash Flow Statement

(INR m)

Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
OP/(Loss) before Tax	6,078	8,793	5,689	1,694	4,944	4,173	7,898	12,045
Depreciation	2,597	2,599	2,851	2,320	2,172	2,106	2,294	2,541
Interest & Finance Charges	471	306	305	224	146	44	73	128
Direct Taxes Paid	-2,534	-3,898	-1,903	-823	-1,301	-1,397	-1,493	-2,277
(Inc)/Dec in WC	-1,265	-1,101	-2,196	2,976	2,994	-6,160	-3,455	-9,579
CF from Operations	5,346	6,699	4,746	6,392	8,956	-1,234	5,317	2,859
Others	287	-269	332	-189	40	39	0	0
CF from Operating incl EO	5,633	6,430	5,078	6,203	8,996	-1,196	5,317	2,859
(Inc)/Dec in FA	-2,014	-4,366	-4,033	-1,498	-1,728	-1,543	-4,480	-6,980
Free Cash Flow	3,619	2,064	1,045	4,705	7,268	-2,739	837	-4,121
Others	16	114	231	86	-10	515	3,371	9,239
CF from Investments	-1,998	-4,252	-3,802	-1,412	-1,726	-1,025	-1,109	2,259
Issue of Shares	0	0	0	0	0	0	0	0
Inc/(Dec) in Debt	-2,820	-1,006	115	61	-2,551	-100	0	0
Interest Paid	-507	-313	-268	-281	-181	-45	-73	-128
Dividend Paid	-308	-640	-800	-663	-134	-2,779	-2,363	-3,601
Others	0	0	0	0	0	0	0	0
CF from Fin. Activity	-3,635	-1,959	-952	-884	-2,867	-2,923	-2,436	-3,730
Inc/Dec of Cash	0	219	324	3,907	4,404	-5,144	1,773	1,388
Opening Balance	243	242	462	786	4,693	9,097	3,953	5,726
Closing Balance	242	462	786	4,693	9,097	3,953	5,726	7,114

E: MOFSL Estimates

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 Motilal Oswal Financial Services Limited are available on the website at <http://online.reports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf>. MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may; (a) from time to time, have a long or short position in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies) or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.

MOFSL and / or its affiliates do and seek to do business including investment banking with companies covered in its research reports. As a result, the recipients of this report should be aware that MOFSL may have a potential conflict of interest that may affect the objectivity of this report. Compensation of Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions. Details of pending Enquiry Proceedings of Motilal Oswal Financial Services Limited are available on the website at <https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx>

A graph of daily closing prices of securities is available at www.nseindia.com, www.bseindia.com. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

Regional Disclosures (outside India)

This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL & its group companies to registration or licensing requirements within such jurisdictions.

For Hong Kong:

This report is distributed in Hong Kong by Motilal Oswal capital Markets (Hong Kong) Private Limited, a licensed corporation (CE AYY-301) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) "SFO". As per SEBI (Research Analyst Regulations) 2014 Motilal Oswal Securities (SEBI Reg. No. INH000000412) has an agreement with Motilal Oswal capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

For U.S.

Motilal Oswal Financial Services Limited (MOFSL) is not a registered broker - dealer under the U.S. Securities Exchange Act of 1934, as amended (the "1934 act") and under applicable state laws in the United States. In addition MOFSL is not a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts"), and under applicable state laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOFSL, including the products and services described herein are not available to or intended for U.S. persons. This report is intended for distribution only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the Exchange Act and interpretations thereof by SEC (henceforth referred to as "major institutional investors"). This document must not be acted on or relied on by persons who are not major institutional investors. Any investment or investment activity to which this document relates is only available to major institutional investors and will be engaged in only with major institutional investors. In reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the U.S. Securities and Exchange Commission ("SEC") in order to conduct business with Institutional Investors based in the U.S., MOFSL has entered into a chaperoning agreement with a U.S. registered broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

The Research Analysts contributing to the report may not be registered/qualified as research analyst with FINRA. Such research analyst may not be associated persons of the U.S. registered broker-dealer, MOSIPL, and therefore, may not be subject to NASD rule 2711 and NYSE Rule 472 restrictions on communication with a subject company, public appearances and trading securities held by a research analyst account.

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets Singapore Pte Ltd ("MOCMSPL") (Co. Reg. NO. 201129401Z) which is a holder of a capital markets services license and an exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisers 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, nor 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.

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

Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 - 71934200 / 71934263; www.motilaloswal.com.

Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai- 400 064. Tel No: 022 71881000. Details of Compliance Officer: Neeraj Agarwal,

Email Id: na@motilaloswal.com, Contact No.:022-40548085.

Grievance Redressal Cell:

Contact Person	Contact No.	Email ID
Ms. Hemangi Date	022 40548000 / 022 67490600	query@motilaloswal.com
Ms. Kumud Upadhyay	022 40548082	servicehead@motilaloswal.com
Mr. Ajay Menon	022 40548083	am@motilaloswal.com

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

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