Vodafone Idea

Neutral

Estimate changes

TP change

Rating change

Bloomberg	IDEA IN
Equity Shares (m)	48680
M.Cap.(INRb)/(USDb)	567.1 / 6.8
52-Week Range (INR)	13 / 6
1, 6, 12 Rel. Per (%)	3/62/29
12M Avg Val (INR M)	1620

Financials & Valuations (INR b)

INR b	FY23	FY24E	FY25E
Net Sales	422	432	467
EBITDA	168	176	207
Adj. PAT	-293	-299	-230
EBITDA Margin (%)	39.9	40.7	44.3
Adj. EPS (INR)	-10.2	-10.4	-8.0
EPS Gr. (%)	3.1	2.2	-23.0
BV/Sh. (INR)	-23.2	-32.5	-39.6
Ratios			
Net D:E	-3.3	-2.4	-2.1
RoE (%)	NM	NM	NM
RoCE (%)	-3.9	-3.4	-2.0
Payout (%)	0.0	0.0	0.0
Valuations			
EV/EBITDA (x)	17.9	17.8	15.6
P/E (x)	NM	NM	NM
P/B (x)	NM	NM	NM
Div. Yield (%)	0.0	0.0	0.0
		•	•

Shareholding pattern (%)

As On	Sep-23	Jun-23	Sep-22
Promoter	50.4	50.4	75.0
DII	35.0	33.9	0.7
FII	2.5	2.3	3.5
Others	12.2	13.4	20.8

FII Includes depository receipts

Subscriber loss slows down

VIL reported 2% QoQ growth in EBITDA (pre Ind AS-116) in 2QFY24, led by 2% ARPU growth and a decrease in subscriber acquisition costs. Its subscriber base continued to decline, but at a slower pace of 1.6m in 2Q vs. average 4m loss in the last six quarters. Capex remained low as the management awaited the necessary fund raise.

TP: INR11 (-6%)

■ VIL continues to lose market share, partly accentuated by tariff hikes in the minimum recharge category. Its efforts for fundraise are at an advanced stage, with a confirmation of INR20b in financial support by one of the promoters. However, the liquidity situation continues to appear bleak, given that there is a scheduled debt repayment of INR72b as of Sep'24. EBITDA (pre IND-AS 116) stood at INR88b in FY24. We reiterate our Neutral rating on the stock.

Net loss widening

CMP: INR12

- Revenue grew 1% QoQ to INR107b (in line), led by 2% QoQ ARPU growth (INR142). The subscriber base declined 1% QoQ (down 1.6m) to 220m.
- Reported EBITDA grew 3% QoQ to INR43b (in line), led by a decrease in subscriber acquisition costs. EBITDA margin improved 100bp QoQ to 40%.
- Pre Ind-AS EBITDA grew 2% QoQ to INR20.6b (in line) and margin improved 20bp QoQ to 19.2%.
- Net loss widened to INR87b vs. INR78b in 1QFY24, led by higher finance costs and tax (26% miss).
- Net debt remained high at INR2.1t, including spectrum/AGR related debt of INR2t (95% of total debt) and market debt of INR79b (4%).
- Capex remained at INR5.2b vs. INR4.5b in 1QFY24. Bharti/RJio's annual network capex stood at INR280b/INR400b, significantly above VIL, despite higher capacity.

Highlights from the management commentary

- In Aug'23, VIL took a price action in the minimum recharge category in total 15 circles (vs. 4 circles in 1Q) by reducing the validity of its INR99 plan to 15 days from 28 days. The full effect of this action will be reflected in 3QFY24.
- 5G capex is heavily dependent on funding. Currently, the management is focusing on equity investments, including INR20b in promoter funding, and will eventually contact banks.
- The impact of SIM consolidation is decreasing and the industry is witnessing subscriber growth.
- A debt repayment of INR71.4b is due until Sept'24, with INR16b related to ATC, whose timelines are under negotiation, while the rest being mainly bank debt.

Aliasgar Shakir - Research Analyst (Aliasgar.Shakir@motilaloswal.com)

Research Analyst: Tanmay Gupta (Tanmay.Gupta@motilaloswal.com | Harsh Gokalgandhi (Harsh.Gokalgandhi@motilaloswal.com)

Valuation and view

VIL has seen a consistent rise in ARPU owing to a high renewal rate and a shift to 4G. However, there has been a notable increase in subscriber churn during this period.

- Capex on the rollout of 4G and 5G holds significant importance. Thus, the much-awaited capital raise is crucial, as it is essential to ensure immediate liquidity and facilitate the expansion of the network.
- Further, it still holds a debt of INR2.1t, with an annual installment of INR430b from FY26 onward. This looks challenging with FY25E EBITDA (IND-AS 116) of INR118b.
- The need for a significant amount of cash to service debt leaves limited upside opportunities for equity holders despite the high operating leverage opportunity from any source of ARPU increase. The current low level of EBITDA will make it challenging to service debt without an external fund infusion. Assuming 15x EV/EBITDA with a net debt of INR2.1t leaves limited opportunity for equity shareholders. We reiterate our Neutral rating on the stock.

Consolidated - Quarterly Earning Model			(INR b)	

Y/E March		FY	23		•	FY	24E		FY23	FY24E	FY24E	Est Var
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			2QE	(%)
Revenue	104	106	106	105	107	107	108	110	422	432	107	0.4
YoY Change (%)	13.7	12.8	9.3	2.9	2.4	1.0	2.0	4.1	9.5	2.4	-2.1	
Total Expenditure	61	65	64	63	65	64	63	63	254	256	65	-0.7
EBITDA	43	41	42	42	42	43	45	46	168	176	42	2.2
YoY Change (%)	16.7	6.1	9.5	-9.4	-4.0	4.5	7.7	9.8	4.9	4.4	-2.2	
Depreciation	58	57	59	57	56	57	58	59	230	229	57	-1.2
Net Finance Costs	58	60	63	49	64	65	54	54	230	237	54	20.6
PBT before EO expense	-73	-76	-80	-64	-78	-79	-67	-67	-293	-291	-70	-13.8
Extra-Ord expense	0	0	0	0	0	0	0	0	0	0	0	
PBT	-73	-76	-80	-64	-78	-79	-67	-67	-293	-291	-70	-13.8
Tax	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	8.2	0.0	30,580.9
Rate (%)	-0.1	-0.1	0.0	0.1	0.0	-10.3	0.0	0.0	0.0	-2.8	0.0	
Reported PAT	-73	-76	-80	-64	-78	-87	-67	-67	-293	-299	-70	-25.5
Adj PAT	-73	-76	-80	-64	-78	-87	-67	-67	-293	-299	-70	-25.5
YoY Change (%)	-2.7	6.3	10.7	-2.3	7.4	15.0	-16.5	4.2	3.1	2.2	11.8	

E: MOFSL Estimates

			/
Exhibit	1: Debt	Break-up	(INK b)

Net debt classification	2QFY22	3QFY22	4QFY22	1QFY23	2QFY23	3QFY23	4QFY23	1QFY24	2QFY24	QoQ
Spectrum debt	1,086	1,113	1,139	1,166	1,367	1,398	1,307	1,337	1,351	14
Market debt	228	231	181	152	151	132	114	95	79	(16)
Optionally Convertible Debentures	0	0	0	0	0	0	16	16	16	-
Total debt	1,314	1,344	1,319	1,318	1,517	1,530	1,437	1,449	1,446	(3)
Cash and equivalents	3	15	15	9	2	2	2	3	1	-1
Net Debt excluding AGR	1,311	1,329	1,304	1,309	1,515	1,528	1,435	1,446	1,445	(1)
AGR dues	634	646	660	673	686	699	656	669	682	13
Net debt including AGR	1,945	1,975	1,964	1,982	2,201	2,227	2,090	2,115	2,127	12

Source: MOFSL, Company

Operating performance

- VIL's subscriber loss (since the last 20 quarters) slowed down to 1.6m in 2QFY24 to 219.8m vs. a 4.5m loss in 1Q and average 4m loss in the last six quarters.
- > Active subs too saw a decline of 2.9m (vs. 5.2m loss in 1Q and average 4.4m loss in the last six quarters) to 199.8m
- > Churn was higher at 4.1% (vs. 3.9% in 1QFY24).
- > Data subscribers grew 1.3m QoQ to 137.2m.
- > 4G subscribers grew 1.8m QoQ to 124.7m.
- ARPU grew 2% QoQ to INR142.
- Data traffic increased 2% QoQ to 6.2b GB. Data usage per subs increased 2% QoQ to 14.9GB.
- MOU (min/sub/month) declined 2% QoQ to 613min.
- The number of unique/broadband towers saw a slight shift with -73/+12 towers, totaling 184k/170k towers. The total number of broadband sites declined to 440k.

Liquidity position

- The group's financial performance has adversely impacted its ability to generate CF. The net WC (excluding ST borrowings, lease liability, accrual towards litigation) was negative at INR218b.
- <u>Debt payable by Sep'24 is INR 71.7b</u> and the total net debt stands at INR 2.1t.
- As of 30th Sep'23, INR31.9b has been classified as the current maturity of LT liabilities due to non-fulfillment of specific covenant clauses.

SC judgment on license fee

- The company has been treating the revenue share license fee (RSLF) as revenue expenses for the purpose of taxation.
- The Supreme Court's decision does not result in a permanent disallowance but leads to a staggered allowance of RSLF over the balance period of the license, resulting in a lower taxable deduction in the initial years of a license and a higher deduction in the later period of the license.
 Based on the initial evaluation, the company has provided a tax provision of INR8.2b and applicable interest during the quarter.

Motilal Oswal

Exhibit 2: Valuation based on FY25E EV/EBITDA

-	Methodology	Driver	Multiple	Fair Value (INRb)	Value/sh (INR)
Consol EBITDA	EV/EBITDA	207	15	3,211	66
Less Net debt				2,668	55
Total Value			•	543	11
Shares o/s (b)			-	48.7	
CMP (INR)					12
Upside (%)			•		-6

Source: MOFSL, Company



Highlights from the management commentary

Key takeaways:

- In Aug'23, VIL took a price action in the minimum recharge category in total 15 circles (vs. 4 circles in last quarters), reducing the validity of its INR99 plan to 15 days from 28 days. The full effect of the tariff change will be reflected in 3QFY24.
- 5G capex is heavily reliant on funding; at the moment, it is concentrating on equity investments, including the INR20b promoter funding, and will eventually contact banks.
- The impact of SIM consolidation is decreasing and the industry is witnessing subscriber growth.
- There is INR71.4b debt repayment coming up until Sept'24, out of which INR16b is toward ATC, whose timelines are under negotiation, while the rest is mainly bank debt.

Commentary in detail:

Strategic investments

- VIL has taken a price action in the minimum recharge category in total 15 circles (vs. 4 circles in last quarter), reducing the validity of its INR99 plan to 15 days from 28 days. The full effect of the pricing did not reflect in 2QFY24 as the action took place in Aug'23.
- The company continues to focus on investment in 17 circles that contribute 98% of VIL's revenue.
- It focuses on network investment for expanding 4G sites and increasing capacity for existing 4G sites. It is in discussion with various vendors to roll out 5G and introduce more products to monetize the 5G opportunity.
- Its partnership with Yotta data services may enhance the data center co-location and cloud services portfolio in India.

Industry trends

- The industry is witnessing growth in real subscribers and the impact of SIM consolidation is decreasing.
- VIL is able to save its premium customers.

Funding

- In the absence of fresh investments, VIL continues to expand 4G coverage only and fulfill vendor payments. 5G capex is largely dependent on funding.
- VIL focuses on equity investments because, on that basis, banks will disburse the loan.

Operating performance

- The company's primary goal is to convert 4G users to unlimited plans, which has allowed it to steadily increase ARPU over the previous nine quarters.
- ARPU increased 2% QoQ to INR142 due to two factors: a) customers switching to 4G and b) price plan increases.
- VIL provided tax expenses of INR8.2b due to the Supreme Court's judgment on license fee tax treatment as a capital not revenue expense. Interest will be over and above, which is included in the interest cost.
- The company had requested the Supreme Court to hear in 'open court' regarding a) the arithmetic error in the calculation of AGR dues and b) interest for delayed payment is very high in penal nature. The curative plea has not been admitted yet.

India mobile conference

- VIL showcased the power of next-gen technology and 5G at the conference.
- Its IoT solution will make the ports of the countries on par with international infrastructure. It is leveraging Vodafone PLC's IoT capability in India.

Exhibit 3: Consolidated performance

Exhibit 3. Consolidated periormance	•						
Consolidated P&L (INR m)	2QFY23	1QFY24	2QFY24	YoY%	QoQ%	2QFY24E	v/s est (%)
Revenue	1,06,146	1,06,555	1,07,163	1.0	0.6	1,06,684	0.4
Operating expenses	65,171	64,985	64,335	-1.3	-1.0	64,772	-0.7
EBITDA	40,975	41,570	42,828	4.5	3.0	41,912	2.2
EBITDA margin (%)	38.6	39.0	40.0	136bps	95bps	39.3	68bps
EBITDA (pre IND AS 116)	21,175	20,200	20,600	-2.7	2.0	20,542	0.3
EBITDA margin (%) (pre IND AS 116)	19.9	19.0	19.2	-73bps	27bps	19.3	-3bps
Depreciation and amortization	56,557	56,165	56,673	0.2	0.9	57,342	-1.2
EBIT	-15,582	-14,595	-13,845	-11.1	-5.1	-15,430	10.3
EBIT margin (%)	-14.7	-13.7	-12.9	176bps	78bps	-14.5	154bps
Net Finance Costs	60,331	63,769	65,345	8.3	2.5	54,188	20.6
Share of Associates	-1	-6	-12	1100.0	100.0	-6	96.1
Profit before Tax	-75,914	-78,370	-79,202	4.3	1.1	-69,623	-13.8
Exceptional item (gain)/loss	0	0	0	NM	#DIV/0!	0	#DIV/0!
Tax	41	30	8,177	19843.9	27156.7	27	30580.9
Tax rate (%)	-0.1	0.0	-10.3	-1027bps	-1028bps	0.0	-1028bps
Profit after Tax	-75,955	-78,400	-87,379	15.0	11.5	-69,650	-25.5
Adj. Profit after Tax	-75,955	-78,400	-87,379	15.0	11.5	-69,650	-25.5

Source: MOFSL, Company

Exhibit 4: Key operating metrics

Key Operating Metrics	2QFY23	1QFY24	2QFY24	YoY%	QoQ%	2QFY24E	v/s est (%)
Subscriber Base (m)	234.4	221.4	219.8	-6.2%	-0.7%	219.9	0.0
VLR Subscribers (m)	212.2	202.7	199.8	-5.8%	-1.4%	0.0	
Pre-paid Subs (%)	91.1%	89.7%	89.5%	-1.8%	-0.2%	0.0%	
Blended ARPU (INR)	131	139	142	8.4%	2.2%	141.1	0.6
Voice metrics							
MOU (min/sub/month)	599	627	613	2.3%	-2.2%	633	-3.2
Blended churn	4.30%	3.9%	4.1%	-4.7%	5.1%	3.9%	
Data metrics							
Data subs (m)	135.2	135.9	137.2	1.5%	1.0%		
as a % of overall subs	57.7%	61.4%	62.4%	8.2%	1.7%		
Broadband subs (m)	103.5	104.1	104.2	0.7%	0.1%		
4g subs	120.6	122.9	124.7	3.4%	1.5%		
Total Data traffic (m GB)	5,718	6,002	6,119	7.0%	1.9%		
Data usage/subs (mb)	14,072	14,705	14,937	6.2%	1.6%		
Tower details							
Total Unique Towers (EoP)	1,84,756	1,83,638	1,83,565	-0.6%	0.0%		
Total Unique Broadband Towers (EoP)	1,69,771	1,70,411	1,70,423	0.4%	0.0%		
Total Broadband sites (3G+4G)	4,44,228	4,42,062	4,40,467	-0.8%	-0.4%		

Source: MOFSL, Company

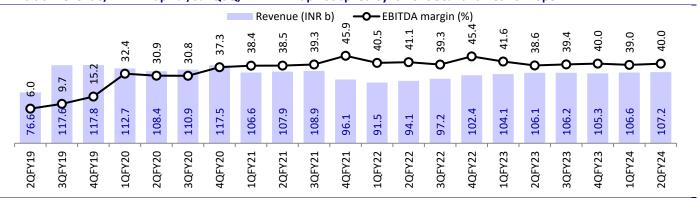
Exhibit 5: Summary of our estimate revisions

Exhibit 3. Summary of our estimate revisions	FY24E	FY25E
Revenue (INRb)		
Old	429	461
Actual/New	432	467
Change (%)	0.7	1.3
EBITDA (INRb)		
Old	172	200
Actual/New	176	207
Change (%)	2.2	3.7
EBITDA margin (%)		
Old	40.1	43.3
Actual/New	40.7	44.3
Change (bp)	62bps	103bps
Net Profit (INRb)		
Old	-284	-240
Actual/New	-299	-230
Change (%)	-5.2	3.8
Adj. EPS (INR)		
Old	-9.9	-8.3
Actual/New	-10.4	-8.0
Change (%)	-5.2	3.8

Source: Company, MOFSL

Story in charts

Exhibit 6: Revenue/EBITDA up 1%/3% QoQ; EBITDAM up 100bp led by lower SG&A and network opex



Source: MOFSL, Company

Subscriber base (m) Subscriber base (m)

 2QFY19
 422
 88

 3QFY19
 387
 89

 4QFY19
 334
 104

 1QFY20
 31
 107

 3QFY20
 304
 109

 4QFY21
 280
 114

 2QFY21
 272
 119

 3QFY21
 272
 114

 2QFY21
 272
 104

 3QFY21
 255
 104

 2QFY22
 253
 109

 3QFY22
 244
 124

 2QFY23
 247
 115

 4QFY23
 240
 133

 3QFY23
 226
 135

 4QFY23
 226
 135

 4QFY24
 220
 135

 4QFY24
 220
 135

 4QFY24
 220
 135

 4QFY24
 220
 135

Source Company, MOFSL

O-ARPU (INR)

Exhibit 8: Monthly churn remained elevated

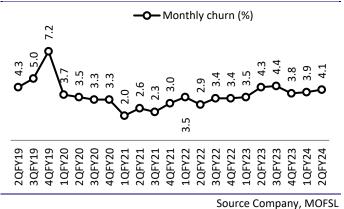


Exhibit 9: Voice traffic declining over the last many quarters

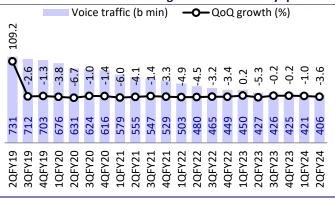
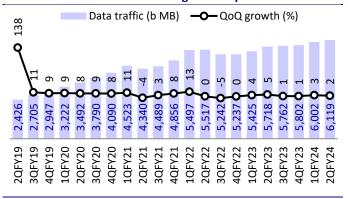


Exhibit 10: Data traffic increasing from 6 quarters



Source Company, MOFSL

Financials and valuations

Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	(INR b) FY25E
Total Income from Operations	356	283	371	450	420	385	422	432	467
Change (%)	-1.0	-20.5	31.2	21.2	-6.7	-8.2	9.5	2.4	8.3
Total Expenditure	253	222	330	300	250	225	254	256	260
% of Sales	71.1	78.6	89.1	66.8	59.6	58.4	60.1	59.3	55.7
EBITDA	103	60	40	149	169	160	168	176	207
Margin (%)	28.9	21.4	10.9	33.2	40.4	41.6	39.9	40.7	44.3
Depreciation	78	84	145	244	236	236	230	229	237
EBIT	24	-24	-105	-94	-67	-75	-62	-53	- 2 9
Int. and Finance Charges	37	45	87	144	178	209	230	237	201
PBT bef. EO Exp.	-13	-68	-192	-238	-245	-284	-293	-291	-230
Share of profits of associates	4	3	2	4	2	0	0	0	0
EO Items	0	0	-9	384	200	-2	0	0	0
PBT after EO Exp.		-65	-182	-618	-443	-282	-293	-291	-230
Total Tax	-5	-23	-36	121	0	0	0	8	0
Tax Rate (%)	53.7	35.9	19.7	-19.5	0.0	0.0	0.0	-2.8	0.0
Minority Interest	0	0	0	0	0	0	0	0	0
Reported PAT	-4	-42	-146	-739	-442	-282	-293	-299	-230
Adjusted PAT	-4	-42	-161	-217	-243	-284	-293	-299	-230
Change (%)	LP	NM	NM	34.5	11.7	17.1	3.1	2.2	-23.0
Margin (%)	-1.1	-14.7	-43.5	-48.3	-57.8	-73.8	-69.4	-69.3	-49.3
Consolidated - Balance Sheet									(INR b)
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Equity Share Capital	36	44	87	287	287	321	487	487	487
Total Reserves	211	229	509	-228	-670	-941	-1,230	-1,530	-1,760
Net Worth	247	273	596	60	-382	-620	-744	-1,043	-1,273
Total Loans	551	580	1,085	1,106	1,660	2,138	2,444	2,556	2,687
Deferred Tax Liabilities	13	-11	-103	0	0	0	0	0	0
Capital Employed	811	841	1,579	1,166	1,277	1,518	1,701	1,513	1,413
Gross Block	907	1,020	2,147	2,471	2,524	2,653	2,878	2,913	3,013
Less: Accum. Deprn.	139	223	369	612	849	1,085	1,315	1,544	1,781
Net Fixed Assets	768	797	1,778	1,858	1,675	1,568	1,563	1,368	1,232
Goodwill on Consolidation	0	0	0	0	0	0	0	0	0
Capital WIP	75	36	51	11	6	4	179	179	179
Total Investments	64	73	82	20	0	0	0	0	0
Curr. Assets, Loans&Adv.	60	66	282	380	354	368	331	337	374
Inventory	1	0	0	0	0	0	0	0	0
Account Receivables	13	9	33	31	25	24	22	22	24
Cash and Bank Balance	1	0	10	27	22	35	9	3	18
Loans and Advances	45	57	239	322	307	309	301	313	332
Curr. Liability & Prov.	156	131	615	1,103	757	422	372	372	372
Account Payables	152	127	611	1,100	757	422	372	372	372

E: MOFSL Estimates

Appl. of Funds

Net Current Assets

Provisions

30 October 2023 8

4

-333

1,579

4

-724

1,166

1

-404

1,277

4

-96

811

3

-65

841

0

-41

1,701

0

-34

1,513

0

3

1,413

1

-54

1,518

Financials and valuations

Total Balance

Ratios									
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Basic (INR)									
EPS	-1.1	-9.6	-18.5	-7.6	-8.4	-9.9	-10.2	-10.4	-8.0
Cash EPS	20.6	9.7	-1.8	0.9	-0.2	-1.7	-2.2	-2.4	0.2
BV/Share	68.6	62.5	68.3	2.1	-13.3	-19.3	-23.2	-32.5	-39.6
DPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Payout (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Valuation (x)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P/E	-10.5	-1.2	-0.6	-1.5	-1.4	-1.2	-1.1	-1.1	-1.5
Cash P/E	0.6	1.2	-6.3	12.7	-53.4	-6.9	-5.4	-4.8	54.8
P/BV	0.2	0.2	0.2	5.6	-0.9	-0.6	-0.5	-0.4	-0.3
EV/Sales	1.7	2.2	3.2	3.1	4.7	6.4	7.1	7.2	6.9
EV/EBITDA	5.1	9.2	27.1	9.3	11.6	15.4	17.9	17.8	15.6
Dividend Yield (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Return Ratios (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RoE	-1.7	-16.0	-37.2	-66.2	NM	NM	NM	NM	NM
RoCE	1.6	-1.8	-6.7	-7.9	-5.5	-5.4	-3.9	-3.4	-2.0
RoIC	1.8	-2.2	-7.8	-8.9	-5.7	-5.5	-4.2	-3.9	-2.3
Working Capital Ratios	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed Asset Turnover (x)	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2
Asset Turnover (x)	0.4	0.3	0.2	0.4	0.3	0.3	0.2	0.3	0.3
Inventory (Days)	1	0	0	0	0	0	0	0	0
Debtor (Days)	13	11	32	25	22	23	19	19	19
Leverage Ratio (x)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Current Ratio	0.4	0.5	0.5	0.3	0.5	0.9	0.9	0.9	1.0
Interest Cover Ratio	0.7	-0.5	-1.2	-0.7	-0.4	-0.4	-0.3	-0.2	-0.1
Net Debt/Equity	2.0	1.9	1.7	17.7	-4.3	-3.4	-3.3	-2.4	-2.1
, = 44, = 4,,									
Consolidated - Cash Flow Statement									(INR b)
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
OP/(Loss) before Tax	-9	-42	-182	-618	-443	-282	-293	-299	-230
Depreciation	78	84	145	244	236	236	230	229	237
Interest & Finance Charges	40	45	88	4.4.4	178	209	234	237	
Direct Taxes Paid		40	00	144	1/0	203		237	201
	-7	0	3	24	8	15	-13	0	201
	-7 7								
(Inc)/Dec in WC		0	3	24	8	15	-13	0	0
(Inc)/Dec in WC CF from Operations	7	0 -23	3 28	24 -92 -299	8 -14 - 34	15 -3	-13 6	0 -12	0 -21 186
(Inc)/Dec in WC CF from Operations Others	7 110 -4	0 -23 64 -11	3 28 83 -29	24 -92 -299 372	8 -14 - 34 191	15 -3 174 0	-13 6 189 0	0 -12 155 0	0 -21 186 0
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO	7 110 -4 105	0 -23 64 -11 53	3 28 83 -29 53	24 -92 - 299 372 73	8 -14 -34 191 156	15 -3 174 0 174	-13 6 189 0 189	0 -12 155 0 155	0 -21 186 0 186
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA	7 110 -4 105 -126	0 -23 64 -11 53 -74	3 28 83 -29 53 -76	24 -92 - 299 372 73 -78	8 -14 -34 191 156 -45	15 -3 174 0 174 -57	-13 6 189 0 189 -55	0 -12 155 0 155 -35	0 -21 186 0 186 -100
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow	7 110 -4 105 -126 -21	0 -23 64 -11 53 -74	3 28 83 -29 53 -76	24 -92 - 299 372 73 -78	8 -14 -34 191 156 -45 111	15 -3 174 0 174 -57 117	-13 6 189 0 189 -55	0 -12 155 0 155 -35	0 -21 186 0 186 -100
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments	7 110 -4 105 -126 -21 -33	0 -23 64 -11 53 -74 -21	3 28 83 -29 53 -76 -22	24 -92 -299 372 73 -78 -5	8 -14 -34 191 156 -45 111 42	15 -3 174 0 174 -57 117	-13 6 189 0 189 -55 133	0 -12 155 0 155 -35 120	0 -21 186 0 186 -100 86
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others	7 110 -4 105 -126 -21 -33 4	0 -23 64 -11 53 -74 -21 -9	3 28 83 -29 53 -76 -22 -4	24 -92 -299 372 -78 -5 65 -15	8 -14 -34 191 156 -45 111 42 14	15 -3 174 0 174 -57 117 0	-13 6 189 0 189 -55 133 0	0 -12 155 0 155 -35 120 0	0 -21 186 0 186 -100 86 0
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments	7 110 -4 105 -126 -21 -33 4 -156	0 -23 64 -11 53 -74 -21 -9 -10	3 28 83 -29 53 -76 -22 -4 6	24 -92 -299 372 -78 -5 65 -15	8 -14 -34 191 156 -45 111 42 14 11	15 -3 174 0 174 -57 117 0 0	-13 6 189 0 189 -55 133 0 1	0 -12 155 0 155 -35 120 0 0	0 -21 186 0 186 -100 86 0 0
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares	7 110 -4 105 -126 -21 -33 4 -156	0 -23 64 -11 53 -74 -21 -9 -10 -93 67	3 28 83 -29 53 -76 -22 -4 6 -74	24 -92 -299 372 73 -78 -5 65 -15 -28 249	8 -14 -34 191 156 -45 111 42 14 11 0	15 -3 174 0 174 -57 117 0 0 -57 45	-13 6 189 0 189 -55 133 0 1 -54	0 -12 155 0 155 -35 120 0 0 -35	0 -21 186 0 186 -100 86 0 0 -100
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt	7 110 -4 105 -126 -21 -33 4 -156 -4	0 -23 64 -11 53 -74 -21 -9 -10 -93 67	3 28 83 -29 53 -76 -22 -4 6 -74 0 21	24 -92 -299 372 -73 -78 -5 -65 -15 -28 249 -81	8 -14 -34 191 156 -45 111 42 14 11 0 -44	15 -3 174 0 174 -57 117 0 0 -57 45 -53	-13 6 189 0 189 -55 133 0 1 -54 4	0 -12 155 0 155 -35 120 0 0 -35 0	0 -21 186 0 186 -100 86 0 0 -100 0
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt Interest Paid	7 110 -4 105 -126 -21 -33 4 -156 -4 84 -33	0 -23 64 -11 53 -74 -21 -9 -10 -93 67 29 -45	3 28 83 -29 53 -76 -22 -4 6 -74 0 21 -51	24 -92 -299 372 73 -78 -5 65 -15 -28 249 -81 -153	8 -14 -34 191 156 -45 111 42 14 11 0 -44 -28	15 -3 174 0 174 -57 117 0 0 -57 45 -53 -28	-13 6 189 0 189 -55 133 0 1 -54 4 -51	0 -12 155 0 155 -35 120 0 0 -35 0 112 -237	0 -21 186 0 186 -100 86 0 0 -100 0 131 -201
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt Interest Paid Dividend Paid	7 110 -4 105 -126 -21 -33 4 -156 -4 84 -33 -3	0 -23 64 -11 53 -74 -21 -9 -10 -93 67 29 -45	3 28 83 -29 53 -76 -22 -4 6 -74 0 21 -51	24 -92 -299 372 73 -78 -5 65 -15 -28 249 -81 -153	8 -14 -34 191 156 -45 111 42 14 11 0 -44 -28 0	15 -3 174 0 174 -57 117 0 0 -57 45 -53 -28 0	-13 6 189 0 189 -55 133 0 1 -54 4 -51 -21	0 -12 155 0 155 -35 120 0 0 -35 0 112 -237	0 -21 186 0 186 -100 86 0 -100 0 131 -201
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt Interest Paid Dividend Paid Others	7 110 -4 105 -126 -21 -33 4 -156 -4 84 -33 -3 0	0 -23 64 -11 53 -74 -21 -9 -10 -93 67 29 -45 0 -13	3 28 83 -29 53 -76 -22 -4 6 -74 0 21 -51 0 57	24 -92 -299 372 -78 -5 -65 -15 -28 249 -81 -153 0	8 -14 -34 191 156 -45 111 42 14 11 0 -44 -28 0 -96	15 -3 174 0 174 -57 117 0 0 -57 45 -53 -28 0 -69	-13 6 189 0 189 -55 133 0 1 -54 4 -51 -21 0	0 -12 155 0 155 -35 120 0 0 -35 0 112 -237 0	0 -21 186 0 186 -100 86 0 -100 0 131 -201 0
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt Interest Paid Dividend Paid Others CF from Fin. Activity	7 110 -4 105 -126 -21 -33 4 -156 -4 84 -33 -3 0 44	0 -23 64 -11 53 -74 -21 -9 -10 -93 67 29 -45 0 -13 39	3 28 83 -29 53 -76 -22 -4 6 -74 0 21 -51 0 57 28	24 -92 -299 372 -78 -5 -65 -15 -28 249 -81 -153 0 -65 -49	8 -14 -34 191 156 -45 111 42 14 11 0 -44 -28 0 -96 -167	15 -3 174 0 174 -57 117 0 0 -57 45 -53 -28 0 -69 -106	-13 6 189 0 189 -55 133 0 1 -54 4 -51 -21 0 -79	0 -12 155 0 155 -35 120 0 0 -35 0 112 -237 0 0	0 -21 186 0 186 -100 86 0 -100 0 131 -201 0 0 -70
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt Interest Paid Dividend Paid Others CF from Fin. Activity Inc/Dec of Cash	7 110 -4 105 -126 -21 -33 4 -156 -4 84 -33 -3 0 44 -6	0 -23 64 -11 53 -74 -21 -9 -10 -93 67 29 -45 0 -13 39 0	3 28 83 -29 53 -76 -22 -4 6 -74 0 21 -51 0 57 28 7	24 -92 -299 372 73 -78 -5 65 -15 -28 249 -81 -153 0 -65 -49 -4	8 -14 -34 191 156 -45 111 42 14 11 0 -44 -28 0 -96 -167	15 -3 174 0 174 -57 117 0 0 -57 45 -53 -28 0 -69 -106 11	-13 6 189 0 189 -55 133 0 1 -54 4 -51 -21 0 -79 -147 -12	0 -12 155 0 155 -35 120 0 0 -35 0 112 -237 0 0 -126 -6	0 -21 186 0 186 -100 86 0 -100 0 131 -201 0 0 -70
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt Interest Paid Dividend Paid Others CF from Fin. Activity Inc/Dec of Cash Opening Balance	7 110 -4 105 -126 -21 -33 4 -156 -4 84 -33 -3 0 44 -6 6	0 -23 64 -11 53 -74 -21 -9 -10 -93 67 29 -45 0 -13 39 0	3 28 83 -29 53 -76 -22 -4 6 -74 0 21 -51 0 57 28 7	24 -92 -299 372 73 -78 -5 65 -15 -28 249 -81 -153 0 -65 -49 -4	8 -14 -34 191 156 -45 111 42 14 11 0 -44 -28 0 -96 -167 0 4	15 -3 174 0 174 -57 117 0 0 -57 45 -53 -28 0 -69 -106 11 4	-13 6 189 0 189 -55 133 0 1 -54 4 -51 -21 0 -79 -147 -12	0 -12 155 0 155 -35 120 0 0 -35 0 112 -237 0 0 -126 -6 2	0 -21 186 0 186 -100 86 0 0 -100 0 131 -201 0 0 -70 16
(Inc)/Dec in WC CF from Operations Others CF from Operating incl EO (Inc)/Dec in FA Free Cash Flow (Pur)/Sale of Investments Others CF from Investments Issue of Shares Inc/(Dec) in Debt Interest Paid Dividend Paid Others CF from Fin. Activity Inc/Dec of Cash	7 110 -4 105 -126 -21 -33 4 -156 -4 84 -33 -3 0 44 -6	0 -23 64 -11 53 -74 -21 -9 -10 -93 67 29 -45 0 -13 39 0	3 28 83 -29 53 -76 -22 -4 6 -74 0 21 -51 0 57 28 7	24 -92 -299 372 73 -78 -5 65 -15 -28 249 -81 -153 0 -65 -49 -4	8 -14 -34 191 156 -45 111 42 14 11 0 -44 -28 0 -96 -167	15 -3 174 0 174 -57 117 0 0 -57 45 -53 -28 0 -69 -106 11	-13 6 189 0 189 -55 133 0 1 -54 4 -51 -21 0 -79 -147 -12	0 -12 155 0 155 -35 120 0 0 -35 0 112 -237 0 0 -126 -6	0 -21 186 0 186 -100 86 0 -100 0 131 -201 0 0 -70

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

10

27

22

35

18

0

1

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.

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 oswal.com/ResearchAnalyst/PublishViewLitigation.aspx

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

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

For U.S.

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

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

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets Singapore Pte Ltd ("MOCMSPL") (Co. Reg. NO. 201129401Z) which is a holder of a capital markets services license and an exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisors Act (CAP 110) provided to MOCMSPL by Monetary Authority of Singapore. Persons in Singapore should contact MOCMSPL in respect of any matter arising from, or in connection with this report/publication/communication. This report is distributed solely to persons who qualify as "Institutional Investors", of which some of whom may consist of "accredited" institutional investors as defined in section 4A(1) of the Securities and Futures Act, Chapter 289 of Singapore ("the SFA"). Accordingly, if a Singapore person is not or ceases to be such an institutional investor, such Singapore Person must immediately discontinue any use of this Report and inform MOCMSPL.

Specific Disclosures

- MOFSL, Research Analyst and/or his relatives does not have financial interest in the subject company, as they do not have equity holdings in the subject company.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- Research Analyst has not served as director/officer/employee in the subject company
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months

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

11 30 October 2023

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:

ance Nedressal 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 dpgrievances@motilaloswal.com.