Ambuja Cements

Estimate change	
TP change	
Rating change	

Motilal Oswal

Bloomberg	ACEM IN
Equity Shares (m)	1,986
M.Cap.(INRb)/(USDb)	1017.1 / 12.3
52-Week Range (INR)	585 / 274
1, 6, 12 Rel. Per (%)	-5/34/38
12M Avg Val (INR M)	3293
Free float (%)	36.9

Financial Snapshot (INR b)

Y/E Dec/Mar	CY21	FY23E*	FY24E				
Sales	139.6	196.1	161.0				
EBITDA	32.1	30.5	33.3				
Adj. PAT	21.3	21.4	22.4				
EBITDA Margin (%)	23.0	15.6	20.7				
Adj. EPS (INR)	10.7	10.8	11.3				
EPS Gr. (%)	18.9	0.5	4.9				
BV/Sh. (INR)	111.8	117.0	121.3				
Ratios							
Net D:E	-0.2	-0.2	-0.2				
RoE (%)	22.3	19.4	18.8				
RoCE (%)	22.9	20.2	19.3				
Payout (%)	60.1	55.7	62.0				
Valuations							
P/E (x)	40.2	40.0	38.1				
P/BV (x)	3.9	3.7	3.6				
EV/EBITDA(x)	25.0	26.1	23.5				
EV/ton (USD)	311.8	309.5	304.5				
Div. Yield (%)	1.2	1.3	1.4				
FCF Yield (%)	1.3	1.9	1.3				
*EV23E is 15m period due to change in							

*FY23E is 15m period due to change in accounting year

Shareholding pattern (%)

63.1	63.1
	05.1
16.5	12.5
13.1	17.9
7.3	6.5

FII Includes depository receipts

CMP: INR512

TP: INR530 (+3%)

Neutral

Expansion and cost saving plans are a key monitorable

EBITDA/t declines to a multi-year low on continued cost pressure

- ACEM's performance was impacted by continued cost pressures. EBITDA stood at INR3b (est. INR4.1b). EBITDA/t stood at INR433 (est. INR594) – the lowest after Dec'04, as OPEX/t came in 2% above our estimate due to a sharp rise in other expense. Adjusted PAT fell 65% YoY to INR1.5b (est. INR1.9b).
- We have adjusted our estimates to account for the change in the accounting year (March from December). On a like-to-like basis, we reduce our CY22/ CY23 EBITDA estimate by 7%/9% and profit estimate by 3%/14%. We maintain our Neutral rating as we await clarity and the roadmap for capex plans and expected cost savings.

Sales volumes up 14% YoY; realization down 3% QoQ

- Standalone revenue/EBITDA/adjusted PAT stood at INR36.7b/INR3b/INR1.5b (+13%/-57%/-65% YoY and +1%/-26%/-21% v/s our estimate). Sales volume (including Clinker) rose 14% YoY (+12% for Gray Cement) and was 2% above our estimate. Realization was flat YoY, but fell 3% QoQ (1% lower than our estimate).
- OPEX/t rose 17% YoY and 7% QoQ on account of a 45% rise in variable costs on higher coal and petcoke prices and a 10% increase in other expense due to cost inflation. Employee expense fell 9% YoY and 6% QoQ, resulting in a 20% YoY decline in employee cost/t. Freight cost/t fell 7% YoY.
- Higher OPEX led to 13.4pp YoY and 9pp QoQ drop in OPM to 8.3%. EBITDA/t declined by 62% YoY and 53% QoQ. Adjusted profit fell 65% YoY.
- Between Jan-Sep'22, revenue grew 13% YoY on a 10%/3% growth in volume/realization. Higher OPEX (up 17% YoY) led to 33% decline in EBITDA and 10pp drop in OPM to 15.4%. EBITDA/t fell 39% YoY to INR812. Adjusted PAT declined by 18% YoY to INR15b.

Highlights from the management commentary

- Capacity of Adani Cement (ACC+ACEM) will increase to 140mtpa over the next five years from 67.5mtpa at present.
- The Cement business will achieve cost leadership by leveraging the group's experience in critical areas like Infrastructure and the digital platform, energy cost, and the supply chain.
- Cost savings will be achieved through: 1) increasing usage of green energy and alternative fuel, 2) optimization of warehouse infrastructure, benefitting from group synergies of multi-model logistics, and 3) lower logistic costs by leveraging its rail, road, sea, and BCT infrastructure.

Await its capacity expansion and cost savings plans; maintain our Neutral rating

 ACEM and ACC (Adani group Cement entities) are net cash positive companies, with a cumulative cash balance of INR103b in FY23. ACEM recently issued warrants to the promoter group, amounting to INR200b.

Sanjeev Kumar Singh - Research analyst (Sanjeev.Singh@MotilalOswal.com)

Mudit Agarwal - Research analyst (Mudit.Agarwal@MotilalOswal.com)

Investors are advised to refer through important disclosures made at the last page of the Research Report. Motilal Oswal research is available on www.motilaloswal.com/Institutional-Equities, Bloomberg, Thomson Reuters, Factset and S&P Capital.

(INR b)

This fundraising can help the group to increase its Cement capacities by 70mtpa by CY26E, without leveraging the Balance Sheet.

- The timely completion of its growth plans and cost saving strategies of the new management will be the key factors driving the stock's performance. The group has environmental clearance for 25mtpa clinker capacities.
- Considering the group's growth ambitions and rising confidence after the fundraising, we have discounted our CY26-based assumptions at a WACC of 12% to arrive at our TP of INR530. Assuming a cost benefit of INR300/t, our TP will increase to INR680. We await clarity on the management's growth plans. We maintain our **Neutral** rating on the stock.

oraniaalonic quarterly p													(
V/F December /Merch		CY2	21				FY23*			CY21	FY23E*	MOFSL	Var.
Y/E December/March	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE	5QE			3QE	(%)
Net Sales	36.2	33.7	32.4	37.4	39.3	39.9	36.7	39.8	40.5	139.6	196.1	36.2	(1)
Change (YoY %)	28.1	54.9	13.5	6.3	8.4	18.5	13.4	6.5	3.1	22.8	40.4	11.9	
EBITDA	9.8	9.6	7.0	5.7	7.9	6.8	3.0	5.7	7.0	32.1	30.5	4.1	(26)
Margin (%)	27.0	28.5	21.7	15.2	20.1	17.1	8.3	14.3	17.4	23.0	15.6	11.3	(298)
Depreciation	1.3	1.3	1.3	1.7	1.5	1.5	1.6	1.6	1.6	5.5	7.8	1.6	1
Interest	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.9	1.1	0.3	(9)
Other Income	0.6	1.6	0.4	0.3	0.4	5.9	0.5	0.3	0.2	2.9	7.3	0.3	47
PBT before EO Item	8.9	9.7	5.9	4.1	6.5	10.9	1.7	4.2	5.4	28.5	28.8	2.6	(34)
Extraordinary Inc./(Exp.)	0.0	0.0	0.0	-0.7	0.0	0.4	-0.2	0.0	0.0	-0.7	0.3	0.0	
PBT after EO Exp./(Inc.)	8.9	9.7	5.9	3.4	6.5	11.4	1.6	4.2	5.4	27.9	29.1	2.6	(40)
Тах	2.2	2.4	1.5	0.9	1.6	0.9	0.2	1.3	2.0	7.0	5.9	0.7	
Rate (%)	25.0	25.2	25.5	26.1	24.3	7.9	11.8	30.0	36.7	25.3	20.4	25.5	
Reported Profit	6.6	7.2	4.4	2.5	5.0	10.5	1.4	3.0	3.4	20.8	23.2	1.9	(29)
Adjusted PAT	6.6	7.2	4.4	3.0	5.0	8.5	1.5	3.0	3.4	21.3	21.4	1.9	(21)
Change (YoY %)	66.5	59.5	0.2	(39.9)	(25.5)	18.0	(65.3)	(1.3)	(31.1)	18.9	0.5	(56.2)	

Standalone quarterly performance

Source: MOFSL, Company *Note: FY23 is 15-month period as the company changed its accounting year-end from December to March **Per tonne analysis**

V/E December /March		CY21				FY2	3*			CY21	FY23E*	MOFSL	Var.
Y/E December/March	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE	5QE	-		3QE	(%)
Volume	7.24	6.42	6.20	7.16	7.49	7.39	7.04	7.48	7.55	27.02	36.95	6.87	2
Change (YoY %)	25	53	9	2	3	15	14	4	1	19	37	11	
Blended Realization	5,002	5,251	5,226	5,217	5,241	5,404	5,217	5,315	5,357	5,168	5,308	5,272	(1)
Change (YoY %)	2.1	1.1	3.9	4.6	4.8	2.9	-0.2	1.9	2.2	3.0	2.7	1.0	
Raw Material	475	274	435	518	709	435	421	475	528	429	515	600	(30)
Staff Cost	234	252	273	248	204	221	218	245	274	251	233	253	(14)
Power and fuel	1,015	1,228	1,245	1,573	1,376	1,786	2,011	1,861	1,657	1,266	1,735	1,836	10
Freight	1,216	1,228	1,284	1,179	1,159	1,224	1,193	1,172	1,170	1,224	1,183	1,199	(1)
Other expenditure	713	775	853	905	737	810	942	800	798	818	816	790	19
Total cost	3,653	3,756	4,091	4,424	4,185	4,478	4,785	4,553	4,426	3,989	4,482	4,678	2
EBITDA	1,349	1,495	1,135	793	1,055	926	433	762	930	1,180	826	594	(27)

Source: MOFSL, Company *Note: FY23 is 15-month period as the company changed its accounting year-end from December to March

(INR b)	Revised estimate		Old estim	ate	Change (%)		
	CY22	CY23	CY22	CY23	CY22E	CY23E	
Net Sales	152	157	153	158	-0.4	-0.6	
EBITDA	23	30	25	33	-7.3	-8.8	
Net Profit	18	19	19	22	-3.0	-14.0	
EPS (INR)	9.0	9.7	9.3	11.3	-3.0	-14.0	

Source: MOFSL Estimates

Story in charts

Exhibit 2: Sales volumes (including clinker) up 14% YoY

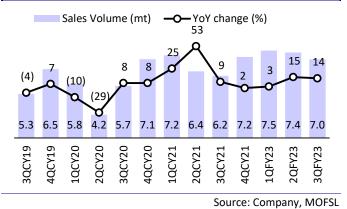
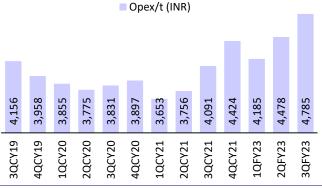


Exhibit 4: OPEX/t up 17% YoY on a 45% rise in variable cost



Source: Company, MOFSL

Exhibit 3: Realization flat YoY, down 3% QoQ

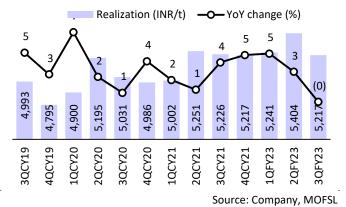
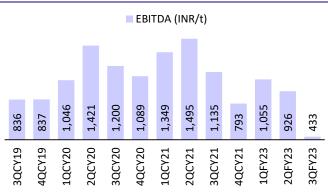


Exhibit 5: EBITDA/t down 62% YoY - the lowest since Dec'04



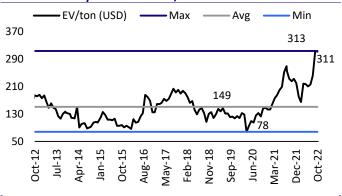
Source: Company, MOFSL

INR/t	Sep'22	Sep'21	YoY (%)	Jun'22	QoQ (%)
Blended Realization	5,217	5,226	(0)	5,404	(3)
Raw Material	421	435	(3)	435	(3)
Staff Cost	218	273	(20)	221	(2)
Power and Fuel	2,011	1,245	61	1,786	13
Freight	1,193	1,284	(7)	1,224	(3)
Other exp.	942	968	(3)	810	16
Total Cost	4,785	4,091	17	4,478	7
EBITDA	433	1,135	(62)	926	(53)
				Source: Co	mpany, MOFS





Exhibit 8: One-year forward EV/t chart



Source: Company, MOFSL

Source: Company, MOFSL

Standalone financials and valuations

Income Statement								(INR m)
Y/E December/March	CY17	CY18	CY19	CY20	CY21	FY23E*	FY24E	FY25E
Net Sales	1,04,571	1,13,568	1,16,679	1,13,719	1,39,650	1,96,116	1,61,042	1,73,814
Change (%)	13.7	8.6	2.7	-2.5	22.8	40.4	-17.9	7.9
Total Expenditure	85,170	94,653	95,190	87,253	1,07,575	1,65,593	1,27,732	1,33,569
As a percentage of Sales	81.4	83.3	81.6	76.7	77.0	84.4	79.3	76.8
EBITDA	19,401	18,915	21,489	26,466	32,075	30,523	33,310	40,245
Change (%)	14.6	-2.5	13.6	23.2	21.2	-4.8	9.1	20.8
Margin (%)	18.6	16.7	18.4	23.3	23.0	15.6	20.7	23.2
Depreciation	5,729	5,481	5,438	5,212	5,512	7,828	6,450	8,828
EBIT	13,672	13,434	16,050	21,254	26,562	22,695	26,860	31,418
Interest	1,072	823	835	831	909	1,149	897	919
Other Income – Rec.	3,591	3,391	4,265	3,720	2,856	7,256	4,066	4,537
PBT before EO Exp.	16,191	16 ,002	19,480	24,144	28,509	28,801	30,029	35,035
EO Exp./(Inc.)	0	-2,779	0	0	657	-295	0	0
PBT after EO Exp.	16,191	18,781	19,480	24,144	27,853	29,096	30,029	35,035
Current Tax	4,107	4,780	5,730	6,520	6,908	7,419	7,597	8,864
Deferred Tax	-411	-869	-1,535	-278	139	0	0	0
Tax Rate (%)	22.8	20.8	21.5	25.9	25.3	25.5	25.3	25.3
Reported PAT	12,496	14,870	15,285	17,901	20,805	23,174	22,431	26,171
PAT Adj. for EO Items	12,496	12,091	14,415	17,901	21,278	21,382	22,431	26,171
Change (%)	34.0	-3.2	19.2	24.2	18.9	0.5	4.9	16.7
Margin (%)	11.9	10.6	12.4	15.7	15.2	10.9	13.9	15.1
Balance Sheet Y/E December/March	CY17	CY18	СҮ19	CY20	CY21	FY23E*	FY24E	(INR m) FY25E
Equity Share Capital	3,971	3,971	3,971	3,971	3,971		3,971	3,971
Total Reserves	1,95,761	2,06,154	,			3,971	2,36,902	
			2,18,081	1,99,187	2,18,101	2,28,369		2,49,174
Net Worth Def. Liabilities	1,99,732 4,583	2,10,125 3,722	2,22,052	2,03,159 1,860	2,22,073 2,018	2,32,340	2,40,873	2,53,145
Total Loans	241	397	2,161	436	435	2,018 435	2,018	2,018 435
Capital Employed	2,04,557	2,14,244	2,24,565	2,05,454	2,24,526	2,34,793	2,43,326	2,55,598
Gross Block	69,035	73,721	80,435	86,658	1,08,864	1,20,877	1,23,377	1,58,377
Less: Accum. Depn.	11,816	17,085	22,310	27,343	32,407	40,234	46,684	55,512
Net Fixed Assets	57,220	56,636	58,125	59,315	76,457	80,643	76,693	1,02,865
Capital WIP	8,625	9,996	14,562	21,300	10,858	10,845	23,845	4,345
Investments in subsidiaries	1,18,151	1,18,138	1,17,890	1,17,877	1,17,877	1,17,877	1,17,877	1,17,877
Investments – Trade	15,128	2,305	6,537	788	4,843	4,843	4,843	4,843
Curr. Assets	47,144	64,792	72,793	55,534	71,699	84,184	79,724	85,931
Inventory	10,525	12,778	9,541	7,466	14,636	18,548	13,907	14,084
Debtors	3,080	4,703	5,132	1,915	2,932	4,111	3,371	3,642
Cash and Bank Bal.	20,189	31,045	40,638	28,500	36,880	43,022	42,694	47,203
Others	13,351	16,267	17,483	17,652	17,252	18,502	19,752	21,002
Curr. Liability and Prov.	41,712	37,623	45,342	49,360	57,209	63,598	59,657	60,264
Creditors	40,488	36,327	43,985	48,765	56,469	62,264	58,323	58 <i>,</i> 930
Provisions	1,223	1,296	1,357	595	740	1,334	1,334	1,334
		07 4 6 0	07.454	C 474	4 4 4 9 9	20 505	20.007	25.007
Net Current Assets	5,433	27,169	27,451	6,174	14,490	20,585	20,067	25,667 2,55,598

Source: Company, MOFSL; *Note: FY23 is 15-month period as the company changed its accounting year-end from December to March

Standalone financials and valuations

Ratios								
Y/E December/March	CY17	CY18	CY19	CY20	CY21	FY23E*	FY24E	FY25E
Basic (INR)								
EPS	6.3	6.1	7.3	9.0	10.7	10.8	11.3	13.2
Cash EPS	9.2	8.8	10.0	11.6	13.5	14.7	14.5	17.6
BV/Share	100.6	105.8	111.8	102.3	111.8	117.0	121.3	127.5
DPS	3.6	1.5	1.5	18.5	6.3	6.5	7.0	7.0
Payout (%)	64.9	22.3	19.5	205.2	60.1	55.7	62.0	53.1
Valuation (x)								
P/E ratio		70.7	59.3	47.8	40.2	40.0	38.1	32.7
Cash P/E ratio		48.7	43.1	37.0	31.9	29.3	29.6	24.4
P/BV ratio		4.1	3.9	4.2	3.9	3.7	3.6	3.4
EV/Sales ratio		7.2	6.8	7.1	5.8	4.1	4.9	4.6
EV/EBITDA ratio		42.9	36.9	30.4	25.0	26.1	23.5	19.9
EV/t (Cap) - USD		335	327	332	312	309	305	249
Dividend Yield (%)		0.3	0.3	3.6	1.2	1.3	1.4	1.4
Return Ratios (%)		0.5	0.5	5.0	1.2	1.0	±	2
RoE	15.8	13.8	14.6	18.7	22.3	19.4	18.8	20.1
RoCE	16.8	15.2	14.0	19.3	22.9	20.2	19.3	20.1
RolC	18.2	18.9	23.6	35.3	41.0	27.7	32.9	32.4
Working Capital Ratios	10.2	10.5	25.0	55.5	41.0	27.7	52.5	52.4
Asset Turnover (x)	0.5	0.5	0.5	0.6	0.6	0.8	0.7	0.7
Debtor (Days)	10.7	15.1	16.1	6.1	7.7	7.7	7.6	7.6
Inventory (Days)	37	41	30	24	38	35	32	30
Work Cap (Days)	19.0	87.3	85.9	19.8	37.9	38.3	45.5	53.9
	19.0	07.5	65.9	19.0	57.9	50.5	45.5	55.9
Leverage Ratio (x) Current Ratio	1 1	1.7	1.6	1 1	1.3	1 0	1.2	1 /
Debt/Equity ratio	1.1	0.0	0.0	1.1	0.0	1.3	1.3	1.4
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cash Flow Statement								(INR m)
Y/E December/March	CY17	CY18	CY19	CY20	CY21	FY23E*	FY24E	FY25E
OP/(Loss) before Tax	16,191	15,061	19,480	24,144	27,853	29,096	30,029	35,035
Depreciation	5,729	5,481	5,438	5,212	5,512	7,828	6,450	8,828
Interest and Finance Charges	-58	-709	-1,515	-1,369	-259	0	0	0
Direct Taxes Paid	-3,101	-6,251	-808	-4,648	-3,629	-5,922	-7,597	-8,864
(Inc.)/Dec. in WC	2,136	-6,166	3,877	3,676	-4,615	47	189	-1,090
CF from Operations	20,898	7,416	26,472	27,015	24,862	31,049	29,071	33,909
Others	-2,356	-2,406	-1,632	-952	-199	0	0	0
CF from Operations incl. EO	18,541	5,009	24,840	26,062	24,663	31,049	29,071	33,909
(Inc.)/Dec. in FA	-5,427	-5,936	-11,114	-9,756	-11,425	-12,000	-15,500	-15,500
Free Cash Flow	13,115	-927	13,726	16,307	13,238	19,049	13,571	18,409
(Pur.)/Sale of Investments	3,468	3,393	3,734	3,342	2,607	0	0	0
Others	-4,509	13,174	-3,999	5,819	-4,297			0
CF from Investments	-6,468	10,631	-11,379	-595	-13,115	-12,000	-15,500	-15,500
Issue of Shares	0,400	0	0	0	0	0	0	0
Inc./(Dec.) in Debt	-793	216	0	-237	-275	0	0	0
Interest Paid	-1,143	-513	-558	-633	-908	0	0	0
Dividend Paid	-1,145	-4,498	-3,320	-36,646	-2,021	-12,907	-13,900	-13,900
Others	-5,550	-4,498	-3,320	-30,040 -88	-2,021	-12,907	-13,900	-13,900
						- 12,907		-
CF from Fin. Activity	-7,487	-4,784	-3,868	-37,604	-3,168		-13,900	-13,900
Inc./Dec. in Cash	4,587	10,856	9,593	-12,137	8,380	6,143	-329	4,509
Opening Balance	15,602	20,189	31,045	40,638	28,500	36,880	43,022	42,694
Closing Balance	20,189	31,045	40,638	28,500	36,880	43,022	42,694	47,203

Source: Company, MOFSL; *Note: FY23 is a 15-month period as the company changed its accounting year-end from December to March

ΝΟΤΕS

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://onlinere

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 transactions. Details of pending Enquiry Proc laxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx Motilal Enquiry Proceedings Oswal Limited Financial Services available website service of are on the

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. Motifal 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 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 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 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 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 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 exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Financial exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Financial exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Financial exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of the schedule of Financial exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of the schedule of Financial exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of 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 2
- 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 MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months 6
- 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 8
- MOFSL has not received any compensation or other benefits from third party in connection with the research report 9
- 10 MOFSL has not engaged in market making activity for the subject company

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance
- received compensation/other benefits from the subject company in the past 12 months any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however, the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services. Served subject company as its clients during twelve months preceding the date of distribution of the research report.
- The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report

Above disclosures include beneficial holdings lying in demat account of MOFSL which are opened for proprietary investments only. While calculating beneficial holdings, It does not consider demat accounts which are opened in name of MOFSL for other purposes (i.e holding client securities, collaterals, error trades etc.). MOFSL also earns DP income from clients which are not considered in above disclosures. Analyst Certification

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issues, and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations and views expressed by research analyst(s) in this report. Terms & Conditions:

This report has been prepared by MOFSL and is meant for sole use by the recipient and not for circulation. The report and information contained herein is strictly confidential and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of MOFSL. The report is based on the facts, figures and information that are considered true, correct, reliable and accurate. The intent of this report is not recommendatory in nature. The information is obtained from publicly available media or other sources believed to be reliable. Such information has not been independently verified and no guaranty, representation of warranty, express or implied, is made as to its accuracy, completeness or correctness. All such information and opinions are subject to change without notice. The report is prepared solely for informational purpose and does not constitute an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments for the clients. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. MOFSL will not treat recipients as customers by virtue of their receiving this report.

Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. This report is not directed or intended for distribution to, or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction. Neither the Firm, not its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information. The person accessing this information specifically agrees to exempt MOFSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOFSL or any of its affiliates or employees responsible for any such misuse and further agrees to hold MOFSL or any

of its affiliates or employees free and harmless from all losses, costs, damages, expenses that may be suffered by the person accessing this information due to any errors and delays. Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; <u>www.motilaloswal.com</u>. 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: <u>na@motilaloswal.com</u>, Contact No.:022-71881085.

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL: IN-DP-16-2015; NSDL: IN-DP-NSDL-152-2000; 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.