

Ambuja Cements

Estimate change	\leftarrow
TP change	1
Rating change	←

Bloomberg	ACEM IN
Equity Shares (m)	1986
M.Cap.(INRb)/(USDb)	783.1 / 9.6
52-Week Range (INR)	598 / 315
1, 6, 12 Rel. Per (%)	3/-28/-2
12M Avg Val (INR M)	5009
Free float (%)	36.9

Financial Snapshot (INR b)

Y/E Dec	FY23*	FY24E	FY25E
Sales	199.9	167.5	185.8
EBITDA	32.2	33.8	40.1
Adj. PAT	25.2	21.9	25.8
EBITDA Margin (%)	16.1	20.2	21.6
Adj. EPS (INR)	12.7	11.0	10.5
EPS Gr. (%)	18.2	-13.2	-5.1
BV/Sh. (INR)	143.6	151.1	188.7
Ratios			
Net D:E	-0.2	-0.1	-0.4
RoE (%)	18.4	12.5	9.7
RoCE (%)	20.4	12.8	10.0
Payout (%)	19.4	31.8	43.0
Valuations			
P/E (x)	24.5	28.3	29.8
P/BV (x)	2.2	2.1	1.7
EV/EBITDA(x)	17.5	16.7	16.0
EV/ton (USD)	219	220	200
Div. Yield (%)	0.6	0.9	1.1
FCF Yield (%)	-0.1	-1.1	-0.7

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

Shareholding pattern (%)

As On	Mar-23	Dec-22	Mar-22
Promoter	63.2	63.2	63.1
DII	14.7	17.0	16.5
FII	11.3	10.8	13.1
Others	10.9	9.1	7.3

FII Includes depository receipts

CMP: INR394 TP: INR390 (-1%) Neutral

Ambitious growth targets and cost saving guidance

Targets cost reduction of INR300-400/t in FY24

- ACEM's operating performance in the Jan-Mar'23 quarter was in line with our estimates, with EBITDA at INR7.9b (est. INR7.8b) and EBITDA/t at INR977 (est. INR951). Higher other income and a lower tax rate led to a ~21% beat in adjusted PAT at INR5.6b.
- The management aims to double the grinding capacity to 140mtpa in the next five years and has outlined the first phase of expansion of ~11mtpa (orders will be placed in the near term). It targets cost reductions of INR300-400/t and aims to achieve EBITDA/t of INR1,200-1,400/t in FY24.
- We largely maintain our earnings estimates, with EBITDA/t assumptions of INR1,078/INR1,162 in FY24E/25E. Cost-saving strategies and equipment ordering will be key monitorables for a constructive view on the company. We maintain a Neutral rating with a revised price target of INR390, based on 15x FY25E EV/EBITDA (v/s Sep'24E earlier).

Sales volumes up 8% YoY; opex/t down 5% QoQ

- ACEM's standalone revenue/EBITDA/adj. PAT stood at INR42.6b/INR7.9b/INR5.6b (up 8%/down 1%/up 14% YoY and down 3%/up 1%/21% v/s our estimates). Sales volumes grew 8% YoY/5% QoQ to 8.1mt. Realization improved 1% YoY (declined 1% QoQ).
- Opex/t was up 3% YoY (down 5% QoQ) due to a 13% rise in variable costs. Other expenses/t declined 22% YoY/19% QoQ. OPM was down 1.7pp YoY (up 3.4pp QoQ) at 18.5%. EBITDA/t declined 8% YoY (+20% QoQ) to INR977.
- During Apr'22-Mar'23, revenue grew 12% YoY, aided by 11%/1% YoY growth in volume/realization. EBITDA declined 21% YoY to INR24b due to cost pressure (opex/t up 9% YoY). EBITDA/t was down 28% YoY at INR795. Adjusted PAT rose 3% YoY to INR20b, aided by higher other income.

Highlights from the management commentary

- Management targets a cost reduction of INR 300-400/t through optimizing energy costs (INR200/t), transportation costs (INR100/t) and other costs. Cost-saving initiatives and capacity expansion would help to double the group's (ACC+ACEM) topline by FY28, with EBITDA margin expansion of 600bp (from last three years average). ACEM targets EBITDA/t of INR1,470 in FY28 (INR1,200-1,400/t in FY24E).
- Kiln fuel costs fell 10% QoQ (to INR2.21/Kcal from INR2.45/Kcal), with a change in the coal mix and group synergies on coal procurement. Working capital improvement remains in focus and working capital turnover improved by 8 days.

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

Valuation and view

- The company has set an ambitious target of achieving a capacity of 140mtpa in the next five years v/s 67.5mtpa at present. We believe that ACC and ACEM have approvals for ~20mtpa of clinker capacity expansion primarily in the East and West regions.
- ACEM and ACC (Adani group entities) are net cash positive companies, with a consolidated cash balance of INR115b as of Mar'23. Cash reserves, along with the remaining proceeds from warrants, will support their capex plans.
- Better clarity is needed on capex as the company has yet not placed orders for equipment. We believe that organic expansions will need more time and we have not considered significant expansions in our estimates (except 7mtpa of ACEM, which was disclosed in Jan'22 by erstwhile management).
- The valuation at 16.7x/16x FY24E/FY25E EV/EBITDA appears rich. We maintain our Neutral rating on the stock (based on 15x FY25E EV/EBITDA).

Standalone quarterly perform	ianice	CY2	1				FY23*					MOESI	NR b) Var
Y/E December/March -	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	5Q	CY21	FY23*	5QE	
Net Sales	36.2	33.7	32.4	37.4	39.3	39.9	36.7	41.3	42.6	139.8	199.9	44.0	(3)
Change (YoY %)	28.1	54.9	13.5	6.3	8.4	18.5	13.4	10.5	8.4	22.9	43.0	12.2	(3)
EBITDA	9.8	9.6	7.0	5.7	7.9	6.8	3.0	6.3	7.9	32.2	32.2	7.8	1
Margin (%)	27.0	28.5	21.7	15.2	20.2	17.1	8.3	15.2	18.5	23.0	16.1	17.6	88
Depreciation	1.3	1.3	1.3	1.7	1.5	1.5	1.6	1.6	2.0	5.5	8.3	1.7	22
Interest	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.9	1.3	0.3	22
Other Income	0.6	1.6	0.4	0.3	0.3	6.3	0.5	0.9	1.7	2.8	9.5	0.8	120
PBT before EO Item	8.9	9.7	5.9	4.1	6.5	11.4	1.7	5.3	7.2	28.5	32.1	6.6	10
Extraordinary Inc./(Exp.)	0.0	0.0	0.0	-0.7	0.0	0.0	-0.2	-0.6	-0.8	-0.7	-1.6	0.0	
PBT after EO Exp./(Inc.)	8.9	9.7	5.9	3.4	6.5	11.4	1.6	4.6	6.4	27.9	30.6	6.6	(3)
Tax	2.2	2.4	1.5	0.9	1.6	0.9	0.2	0.9	1.4	7.0	5.0	1.9	
Prior period tax adj and reversal	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.5	0.0	
Rate (%)	25.0	25.2	25.5	26.1	24.2	21.1	11.8	20.4	21.9	25.3	21.3	29.5	
Reported Profit	6.6	7.2	4.4	2.5	4.9	10.5	1.4	3.7	5.0	20.8	25.5	4.7	8
Adjusted PAT	6.6	7.2	4.4	3.0	4.9	9.0	1.5	4.1	5.6	21.3	25.2	4.7	21
Change (YoY %)	66.5	59.5	0.2	(39.5)	(25.6)	24.2	(66.2)	37.9	13.8	19.0	18.4	(5.8)	

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

Per tonne analysis

Y/E December/March		CY2	1			FY2	3*			CY21	FY23*	MOFSL	Var.
1/E December/March	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	5Q			5QE	(%)
Volume	7.24	6.42	6.20	7.16	7.49	7.39	7.04	7.71	8.07	27.02	37.71	8.17	(1)
Change (YoY %)	25	53	9	2	3	15	14	8	8	19	40	9	
Blended Realization	5,002	5,251	5,226	5,217	5,243	5,404	5,213	5,352	5,273	5,174	5,300	5,391	(2)
Change (YoY %)	2.1	1.1	3.9	4.6	4.8	2.9	-0.2	2.6	0.6	3.1	2.4	2.9	
Raw Material	475	274	435	518	708	435	420	970	1,077	428	733	934	15
Staff Cost	234	252	273	248	205	221	218	207	208	252	212	197	6
Power and fuel	1,015	1,228	1,245	1,573	1,377	1,786	2,009	1,570	1,281	1,267	1,595	1,500	(15)
Freight	1,216	1,228	1,284	1,179	1,160	1,224	1,192	1,084	1,155	1,225	1,148	1,087	6
Other expenditure	713	775	853	905	732	810	941	710	574	818	744	722	(20)
Total cost	3,653	3,756	4,091	4,424	4,183	4,478	4,780	4,540	4,296	3,990	4,431	4,440	(3)
EBITDA	1,349	1,495	1,135	793	1,059	926	432	812	977	1,184	869	951	3

Source: MOFSL, Company *Note: 15-month period due to change in accounting year from December to March; 2) Quarterly numbers don't add up to full year numbers due to restatement of financials



Highlights from the management commentary

Capex plans and future strategies

- The company aims to double its capacity in the next five years to 140mtpa from 70mtpa currently. This will require addition of 40mtpa clinker capacity. The company has outlined the first phase of expansion spread over seven locations. ACEM plans to add capacity in a uniform approach, with most of the clinker line having a capacity of 4mtpa and grinding facilities of 2mtpa. The company shortlisted a set of equipment suppliers and will place orders in the near term. The capacity expansion will be fully funded through internal accruals.
- Out of total 10 clinker lines (4mtpa each), nine lines will be at exiting locations (brownfield expansion) and one line at Mundra, Gujarat (Greenfield expansion). The Mundra Greenfield expansion will generate significantly higher IRR. It plans to use limestone sludge at this facility, which it will buy from a sister company.
- ACEM also revisited its EPC strategy to EPLC, as by breaking projects into parts could result in more savings. Ordering is at an advance stage and estimated cash outflow for expansion is INR70b in FY24.
- The Ametha clinker unit of 3.3mtpa and grinding capacity of 1mtpa are expected to be completed in 2QFY24. Another 1-2mtpa capacity addition is expected through debottlenecking in FY24. While the majority of the capacity expansion will be completed after FY24.

Targeting EBITDA/t improvement through operational efficiencies

- Management targets cost reductions of INR 300-400/t through optimizing energy costs, transportation costs and other costs.
- In the energy cost reduction, ACEM is increasing WHRS capacity from 70MW to 175MW by 2QFY25. It is increasing the share of AFR from 8.5% currently to 30% in the medium term (with target of ~15% by FY24-end). It is adding renewable energy capacity of 200MW by FY24-end. ACEM is entering into a long-term tieup for domestic coal supplies. The company has captive coal mines Gare Palma with a capacity of 1.2mtpa and Dahegaon Gowari with a capacity of 2mtpa. These tow coal mines together cater to 50% of current kiln coal demand. In the medium term, the company targets to acquire few coal mines and long-term supply contracts. All these initiatives will substitute ~30% of coal requirements (including coal requirements for CPP). The other area of cost reduction is fly-ash sourcing. For the current requirement of ~14mt, the company is considering long-term supply agreements, including with the group. These initiatives will result in cost reductions of INR250/t.
- In transportation cost savings, the company has three focus areas 1) reduce lead distance; 2) optimize warehouse between ACC and ACEM; and 3) rail road mix optimization. The company is doubling the number of grinding capacity to 70 from 30, targeting average lead distance of 150km. The company has reduced road lead distance from 177 to 173 for ACEM and 165 to 161 for ACC. For warehouse optimization, the company targets to increase the share of direct dispatches from grinding units. The warehouse count declined to 670 from 943, and volume of direct dispatch increased to 55% from 50%. The company is buying 10 rakes and also exploring a sea route for transportation. These initiatives will drive savings of INR100/t.

MOTILAL OSWAL

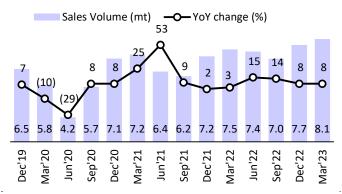
- In other cost reduction, the company is focusing reducing manpower costs by operating the cement business as a single entity. The company has now a common regional head for ACC and ACEM, who will be incentivized to push volume, reduce costs and optimize logistics. Additionally, debottlenecking initiatives will unlock potential to increase plant capacity. These initiatives will help to reduce costs by INR50/t.
- In sales and marketing 1) the company identified 10 growth states to focus on with an aim to position either #1 or #2 in the segment; 2) it is increasing the share of B2B from current 21% to 25% by FY27 (growing faster than the trade segment), 3) it is increasing the share of premium products from current 22% to 29-30% and maintain leadership in the home buyer segment. These initiatives to help the company double the topline and expand EBITDA margin by 600bp (from last three years average).

Operational highlights (Consolidated)

- In the Mar'23 quarter, the company redefined supply chain and logistics in Himachal Pradesh, which affected supply into these markets for ~50 days. However, the outcome was positive with a reduction in freight costs.
- The share of blended cement increased to 92% from 91% in the previous quarter. The share of premium cement as a % of trade sales volume stood at 22%. Trade sales volume improved by 1% QoQ to 79% of total sales volume. Power and fuel costs declined by 18% QoQ. Kiln fuel costs reduced 10% QoQ (to INR2.21/Kcal from INR2.45/Kcal), with a change in the coal mix and group synergies on coal procurement.
- The share of direct sales increased from 64% to 78%, while that of rail coefficient increased from 26% to 30%.
- Working capital improvement remains in focus and working capital turnover improved by 8 days.
- The company expanded its green product portfolio by launching two new products ACC ECOMaxX an Expert Green Concrete.
- Industry growth is estimated at 6-7%, while the company would post higher growth than the industry.

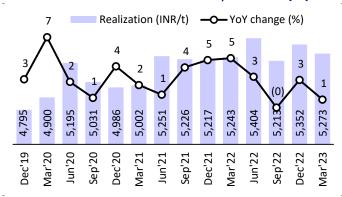
Story in charts

Exhibit 1: Sales volume (including clinker) up 8% YoY



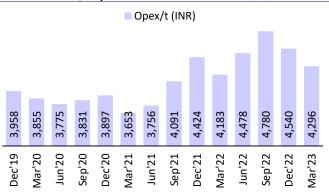
Source: Company, MOFSL; Note: FY23 is 15-month period

Exhibit 2: Realization increased 1% YoY; down 1% QoQ



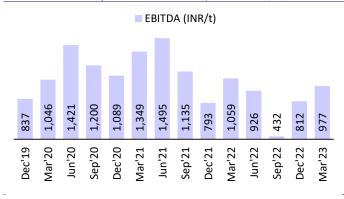
Source: Company, MOFSL; Note: FY23 is 15-month period

Exhibit 3: OPEX/t up 3% YoY but declined 5% QoQ



Source: Company, MOFSL; Note: FY23 is 15-month period

Exhibit 4: EBITDA/t declined 8% YoY; but 20% QoQ



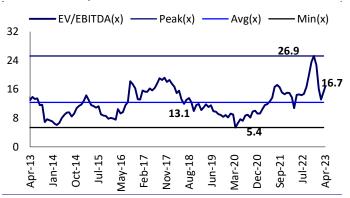
Source: Company, MOFSL; Note: FY23 is 15-month period

Exhibit 5: Key performance indicators - per ton analysis

Exhibit 3: Key periormance maleators per t	on analysis				
INR/t	Mar'23	Mar'22	YoY (%)	Dec'22	QoQ (%)
Blended Realization	5,273	5,243	1	5,352	(1)
Raw Material	1,077	708	52	970	11
Staff Cost	208	205	1	207	1
Power and Fuel	1,281	1,377	(7)	1,570	(18)
Freight	1,155	1,160	(0)	1,084	7
Other exp.	574	844	(32)	710	(19)
Total Cost	4,296	4,183	3	4,540	(5)
EBITDA	977	1,059	(8)	812	20

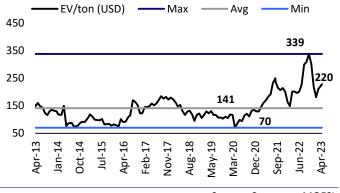
Source: Company, MOFSL

Exhibit 6: One-year forward EV/EBITDA chart



Source: Company, MOFSL

Exhibit 7: One-year forward EV/t chart



Source: Company, MOFSL

26 October 2021 5

Standalone financials and valuations

Income Statement								(INR m)
Y/E December	CY17	CY18	CY19	CY20	CY21	FY23*	FY24E	FY25E
Net Sales	1,04,571	1,13,568	1,16,679	1,13,719	1,39,790	1,99,854	1,67,486	1,85,758
Change (%)	13.7	8.6	2.7	-2.5	22.9	43.0	-16.2	10.9
Total Expenditure	85,170	94,653	95,190	87,253	1,07,639	1,67,650	1,33,666	1,45,659
As a percentage of Sales	81.4	83.3	81.6	76.7	77.0	83.9	79.8	78.4
EBITDA	19,401	18,915	21,489	26,466	32,152	32,204	33,820	40,098
Change (%)	14.6	-2.5	13.6	23.2	21.5	0.2	5.0	18.6
Margin (%)	18.6	16.7	18.4	23.3	23.0	16.1	20.2	21.6
Depreciation	5,729	5,481	5,438	5,212	5,517	8,324	7,325	8,724
EBIT	13,672	13,434	16,050	21,254	26,634	23,880	26,494	31,374
Interest	1,072	823	835	831	910	1,280	963	1,014
Other Income – Rec.	3,591	3,391	4,265	3,720	2,812	9,523	3,768	4,147
PBT before EO Exp.	16,191	16,002	19,480	24,144	28,536	32,123	29,300	34,506
EO Exp./(Inc.)	0	-2,779	0	0	657	1,573	0	0
PBT after EO Exp.	16,191	18,781	19,480	24,144	27,879	30,551	29,300	34,506
Current Tax	4,107	4,780	5,730	6,520	6,908	4,964	7,413	8,730
Deferred Tax	-411	-869	-1,535	-278	139	52	0	0
Tax Rate (%)	22.8	20.8	21.5	25.9	25.3	16.4	25.3	25.3
Reported PAT	12,496	14,870	15,285	17,901	20,832	25,535	21,887	25,776
PAT Adj. for EO Items	12,496	12,091	14,415	17,901	21,323	25,212	21,887	25,776
Change (%)	34.0	-3.2	19.2	24.2	19.1	18.2	-13.2	17.8
Margin (%)	11.9	10.6	12.4	15.7	15.3	12.6	13.1	13.9
Balance Sheet	CY17	CY18	CY19	CY20	CY21	FY23*	FV24F	(INR m)
Y/E December	3,971			3,971	3,971		FY24E	FY25E
Equity Share Capital	3,971	3,971	3,971	3,971	3,971	3,971	3,971	4,926
Money received against issue of warrants	1.05.761	2.00.154	2 10 001	1 00 107	2 40 070	50,000	50,000	4 50 750
Total Reserves	1,95,761	2,06,154	2,18,081	1,99,187	2,18,078	2,31,084	2,46,021	4,59,758
Net Worth	1,99,732	2,10,125	2,22,052	2,03,159	2,22,049	2,85,055	2,99,993	4,64,685
Def. Liabilities	4,583	3,722	2,161	1,860	2,137	2,181	2,181	2,181
Total Loans	241	397	353	436	469	477	435	435
Capital Employed	2,04,557	2,14,244	2,24,565	2,05,454	2,24,655	2,87,713	3,02,608	4,67,300
Gross Block	69,035	73,721	80,435	86,658	1,08,864	1,26,928	1,49,428	2,06,928
Less: Accum. Depn.	11,816	17,085	22,310	27,343	32,407	40,731	48,056	56,780
Net Fixed Assets	57,220	56,636	58,125	59,315	76,457	86,198	1,01,372	1,50,148
Capital WIP	8,625	9,996	14,562	21,300	9,514	8,419	22,500	3,000
Investments in subsidiaries	1,18,151	1,18,138	1,17,890	1,17,877	1,17,647	1,17,667	1,17,667	1,17,667
Investments – Trade	15,128	2,305	6,537	788	5,636	20,815	20,815	20,815
Curr. Assets	47,144	64,792	72,793	55,534	72,323	1,25,944	1,09,124	2,45,690
Inventory	10,525	12,778	9,541	7,466	14,641	16,394	14,020	15,568
Debtors	3,080	4,703	5,132	1,915	2,947	5,649	5,427	6,026
Cash and Bank Bal.	20,189	31,045	40,638	28,500	41,692	25,331	9,857	1,43,025
Others	13,351	16,267	17,483	17,652	13,042	78,570	79,820	81,070
Curr. Liability and Prov.	41,712	37,623	45,342	49,360	57,173	71,328	68,870	70,020
Creditors	40,488	36,327	43,985	48,765	56,423	70,429	67,535	68,685
Provisions	1,223	1,296	1,357	595	750	899	1,335	1,335
Net Current Assets	5,433	27,169	27,451	6,174	15,151	54,616	40,254	1,75,670
Appl. of Funds	2,04,557	2,14,244	2,24,565	2,05,454	2,24,404	2,87,713	3,02,608	4,67,300

Source: Company, MOFSL; * Note: 15-month period due to change in accounting year from December to March

 $Motilal\ Oswal$

Standalone financials and valuations

Ratios								
Y/E December/March	CY17	CY18	CY19	CY20	CY21	FY23*	FY24E	FY25E
Basic (INR)		5.25	0.20	0.20				
EPS EPS	6.3	6.1	7.3	9.0	10.7	12.7	11.0	10.5
Cash EPS	9.2	8.8	10.0	11.6	13.5	16.9	14.7	14.0
BV/Share	100.6	105.8	111.8	102.3	111.8	143.6	151.1	188.7
DPS	3.6	1.5	1.5	18.5	6.3	2.5	3.5	4.5
Payout (%)	64.9	22.3	19.5	205.2	60.1	19.4	31.8	43.0
Valuation (x)							02.0	
P/E ratio		51.2	42.9	34.6	29.0	24.5	28.3	29.8
Cash P/E ratio		35.2	31.2	26.8	23.1	18.5	21.2	22.2
P/BV ratio		2.9	2.8	3.0	2.8	2.2	2.1	1.7
EV/Sales ratio		5.1	4.8	5.0	4.0	2.8	3.4	3.4
EV/EBITDA ratio		30.4	25.9	21.5	17.5	17.5	16.7	16.0
EV/t (Cap) - USD		237	23.0	234	218	219	220	200
Dividend Yield (%)		0.4	0.4	4.7	1.6	0.6	0.9	1.1
Return Ratios (%)		0.4	0.4	4.7	1.0	0.0	0.9	1.1
RoE	15.8	13.8	14.6	18.7	22.3	18.4	12.5	9.7
RoCE	16.8	15.2	16.1	19.3	22.9	20.4	12.3	10.0
RoIC	18.2				42.5		13.7	
	18.2	18.9	23.6	35.3	42.5	20.8	15.7	13.2
Working Capital Ratios	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.4
Asset Turnover (x)	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.4
Debtor (Days)	10.7	15.1	16.1	6.1	7.7	10.3	11.8	11.8
Inventory (Days)	37	41	30	24	38	30	31	31
Work Cap (Days)	19.0	87.3	85.9	19.8	39.6	99.7	87.7	345.2
Leverage Ratio (x)								
Current Ratio	1.1	1.7	1.6	1.1	1.3	1.8	1.6	3.5
Debt/Equity ratio	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cash Flow Statement								(INR m)
Y/E December	CY17	CY18	CY19	CY20	CY21	FY23*	FY24E	FY25E
OP/(Loss) before Tax	16,191	15,061	19,480	24,144	27,879	30,551	29,300	34,506
Depreciation	5,729	5,481	5,438	5,212	5,517	8,324	7,325	8,724
Interest and Finance Charges	-58	-709	-1,515	-1,369	-214	-1,868	0	0,724
Direct Taxes Paid	-3,101	-6,251	-808	-4,648	-3,659	-3,346	-7,413	-8,730
(Inc.)/Dec. in WC	2,136	-6,166	3,877	3,676	-4,557	-7,855	-1,113	-2,248
CF from Operations	20,898	7,416	26,472	27,015	24,966	25,807	28,100	32,253
Others	-2,356	-2,406	-1,632	-952	-201	-5,711	20,100	0
CF from Operations incl. EO	18,541	5,009	24,840	26,062	24,765	20,096	28,100	
(Inc.)/Dec. in FA	-5,427	-5,936	-11,114	-9,756	-11,430	-21,116	-36,581	32,253 -38,000
Free Cash Flow	13,115	-5,930 - 927						
(Pur.)/Sale of Investments			13,726 3,734	16,307	13,336	- 1,020	-8,481	-5,747
	3,468 -4,509	3,393		3,342	192	-79,900	0	0
Others	· · · · · · · · · · · · · · · · · · ·	13,174	-3,999	5,819	2,370	7,744		
CF from Investments	-6,468	10,631	-11,379	-595	-8,868	-93,272	-36,581	-38,000
Issue of Shares	0	0	0	0	0	0	0	955
Inc./(Dec.) in Debt	-793	216	0	-237	35	-31	-42	0
Interest Paid	-1,143	-513	-558	-633	-756	-679	0	11.004
Dividend Paid	-5,550	-4,498	-3,320	-36,646	-2,021	-12,514	-6,950	-11,084
Others	0	12	11	-88	-427	49,340	0	1,49,045
CF from Fin. Activity	-7,487	-4,784	-3,868	-37,604	-3,169	36,115	-6,992	1,38,916
Inc./Dec. in Cash	4,587	10,856	9,593	-12,137	12,729	-37,060	-15,473	1,33,168
Opening Balance	15,602	20,189	31,045	40,638	28,500	41,692	25,331	9,857
Closing Balance	20,189	31,045	40,638	28,500	41,229	4,632	9,857	1,43,025

Source: Company, MOFSL; * Note: 15-month period due to change in accounting year from December to March

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.

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 (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at http://onlinereports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf

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

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

Disclosures

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.

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

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

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

Specific Disclosures

- 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 6
- 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
- MOFSL has not received any compensation or other benefits from third party in connection with the research report
- MOFSL has not engaged in market making activity for the subject company

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public
- received compensation/other benefits from the subject company in the past 12 months
- any other potential conflict of interests with respect to any recommendation and other related information and opinions; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or
- act as an advisor or lender/borrower to such company(ies) 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

2 May 2023 9

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. 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.

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

Official Control Control		
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. Aiay 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.

2 May 2023