

Ambuja Cements

Estimate change	\leftarrow
TP change	←→
Rating change	←

ACEM IN
1986
1375.1 / 16.5
649 / 376
-2/31/34
2010
29.7

Financial Snapshot (INR b)

Y/E Mar	FY24	FY25E	FY26E						
Sales	179.2	199.4	221.3						
EBITDA	33.7	41.4	48.4						
Adj. PAT	23.5	28.5	32.8						
EBITDA Margin (%)	18.8	20.8	21.9						
Adj. EPS (INR)	10.7	11.6	13.3						
EPS Gr. (%)	5.3	8.1	15.3						
BV/Sh. (INR)	168.4	191.1	200.0						
Ratios									
Net D:E	-0.3	-0.4	-0.3						
RoE (%)	11.8	10.1	9.6						
RoCE (%)	12.4	10.5	9.9						
Payout (%)	18.8	38.9	33.8						
Valuations									
P/E (x)	47.0	43.5	37.8						
P/BV (x)	3.0	2.6	2.5						
EV/EBITDA(x)	25.9	19.6	16.8						
EV/ton (USD)	324	278	255						
Div. Yield (%)	0.3	0.7	0.7						
FCF Yield (%)	0.9	-0.7	0.7						

Shareholding pattern (%)

As On	Mar-24	Dec-23	Mar-23
Promoter	66.7	63.2	63.2
DII	14.5	15.8	14.7
FII	11.2	12.0	11.3
Others	7.7	9.1	10.9

FII Includes depository receipts

CMP: INR626 TP: INR600 (-4%) Neutral

Weak realization hurts; focus remains on cost control

Targets capacity to increase to 100mtpa/140mtpa by FY26/FY28

- Ambuja Cement (ACEM)'s standalone EBITDA was up 1% YoY to INR8.0b (vs. est. of INR9.3b). EBITDA/t came in at INR837 (est. INR1,038) and OPM stood at 16.7% (vs. est. 19.8%). PAT (adjusted for loss on the sale of Sanghi's share in open market) was INR5.4b (vs. est. INR6.3b). Consolidated volume grew 17% YoY in 4QFY24. EBITDA grew 37% YoY to INR17b and EBITDA/t was up ~17% YoY (down 17% QoQ) to INR1,025.
- ACEM targets further cost reduction by INR530/t to INR3650/t (at consol.) by FY28 to become the cost leader in the industry. Its key focus areas would be Logistics optimization, reduction in energy and raw materials costs. It aims to commission clinker/grinding capacity of 4mtpa/4.8mtpa by 4QFY25.
- We maintain our earnings estimate for FY25/FY26. ACEM trades at 19.6x/ 16.8x FY25E/FY26E EV/EBITDA (standalone). We maintain our Neutral rating on the stock as we await clarity on the expansion plans of the company.

Higher realization drop offsets cost benefits; OPM down 1.8pp YoY

- ACEM's standalone revenue/EBITDA/Adj. PAT stood at INR47.8b/INR8.0b/INR5.4b (up 12%/1%/down 3% YoY and up 1%/down 14%/down 14% vs. our estimate) in 4Q. Sales volume up 18% YoY to 9.5mt (+6% vs. estimate).
- Realization/t declined 5% YoY (4% below our estimate). Opex/t declined 3% YoY and 5% QoQ (1% below our est.). Freight costs/other expenses/t down 5% YoY each. However, variable cost/t was up 2% YoY (down 1% QoQ). EBITDA/t declined 14% YoY to INR837. OPM contracted 1.8pp YoY to 16.7%. Depreciation/interest cost grew 19%/1%, while 'Other Income' grew 2% YoY.
- In FY24 (TTM), the company's standalone revenue grew 12% YoY, led by 14% YoY growth in volume, while realization declined 2% YoY. EBITDA grew 40% YoY to INR33.7b. EBITDA/t was up 23% YoY to INR980. Adj. PAT was up 16% YoY to INR23b.

Highlights from the management commentary

- Kiln fuel cost declined 17% YoY (flat QoQ) to INR1.84/Kcal. It expects further savings of INR0.04-0.05/Kcal in the coming quarter.
- It aims to increase green power share to 31%/60% by FY25/FY28. This would drive cost savings of INR100/t.
- Consol. capex stood at INR45b in FY24 and the company plans to further spend INR50-60b in FY25 toward its growth plans.

Valuation and view

- The management guides for further cost-reduction initiatives by increasing the share of green power and alternative fuel resources (AFR), engaging in long-term procurement strategies for critical raw materials, and optimizing logistics. Successfully execution of these plans could result in a positive surprise.
- It reiterated its capacity target of 140mtpa by FY28, for which, work is in progress at different stages. Though the company has ambitious growth plans, it has placed orders for only two kilns with an aggregate production capacity of 8mtpa till now. The stock trades at 19.6x/16.8x FY25E/FY26E EV/EBITDA (standalone). We maintain our Neutral rating with a TP of INR600 based on 16x FY26E EV/EBITDA.

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.

Standalone quarterly performance

(INR b)

V/E Danamakan/Bilanak			FY23*				FY	/24		FY23*	FY24	MOFSL	Var.
Y/E December/March	1Q	2Q	3Q	4Q	5Q	1Q	2Q	3Q	4Q			4QE	(%)
Net Sales	39.3	39.9	36.8	41.3	42.6	47.3	39.7	44.4	47.8	199.9	179.2	47.1	(3)
Change (YoY %)	8.4	18.5	13.5	10.5	8.4	18.4	8.0	7.5	12.3	43.0	-10.3	10.7	
EBITDA	7.9	6.8	3.1	6.3	7.9	9.5	7.7	8.5	8.0	32.2	33.7	9.3	(14)
Margin (%)	20.2	17.1	8.5	15.2	18.5	20.1	19.5	19.2	16.7	16.1	18.8	19.8	(311)
Depreciation	1.5	1.5	1.6	1.6	2.0	2.3	2.3	2.3	2.4	8.3	9.4	2.4	2
Interest	0.2	0.3	0.2	0.3	0.3	0.4	0.4	0.5	0.3	1.3	1.6	0.3	7
Other Income	0.3	6.3	0.4	0.9	1.7	1.9	3.8	1.1	1.8	9.5	8.5	1.9	(5)
PBT before EO Item	6.5	11.4	1.7	5.3	7.2	8.7	8.8	6.8	7.0	32.1	31.2	8.5	(18)
Extraordinary Inc./(Exp.)	0.0	0.0	-0.2	-0.6	-0.8	0.0	0.0	0.0	-0.2	-1.6	-0.2	0.0	
PBT after EO Exp./(Inc.)	6.5	11.4	1.6	4.6	6.4	8.7	8.8	6.8	6.8	30.6	31.1	8.5	(20)
Tax	1.6	0.9	0.2	0.9	1.4	2.2	2.4	1.7	1.5	5.0	7.7	2.1	
Prior period tax adj and reversal	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	
Rate (%)	24.2	21.1	11.7	20.4	21.9	25.6	26.8	24.5	21.8	21.3	24.9	25.3	
Reported Profit	4.9	10.5	1.4	3.7	5.0	6.4	6.4	5.1	5.3	25.5	23.3	6.3	(16)
Adjusted PAT	4.9	9.0	1.5	4.1	5.6	6.4	6.4	5.1	5.4	25.2	23.5	6.3	(14)
Change (YoY %)	(25.6)	24.2	(65.9)	37.9	13.8	(28.2)	328.5	23.8	(3.3)	18.4	(6.9)	12.8	

Source: MOFSL, Company *Note: FY23 is 15-month period as the company changed its accounting year-end from December to March; 2)

Quarterly numbers of FY23 don't add up to full year numbers due to restatement of financials

Per tonne analysis

V/F December/March			FY23*				F	Y24		FY23*	FY24E	MOFSL	Var.
Y/E December/March	1Q	2Q	3Q	4Q	5Q	1Q	2Q	3Q	4Q			4QE	(%)
Volume	7.5	7.4	7.0	7.7	8.1	9.1	7.6	8.2	9.5	37.8	34.4	9.0	6
Change (YoY %)	3	15	14	8	8	23	8	6	18	12	14	11	
Blended Realization	5,243	5,404	5,220	5,352	5,273	5,209	5,235	5,414	5,016	5,290	5,209	5,243	(4)
Change (YoY %)	4.8	2.9	-0.1	2.6	0.6	-3.6	0.3	1.2	-4.9	2.2	-1.5	-0.6	
Raw Material	708	435	419	970	1,077	972	958	1,375	1,463	732	1,201	992	48
Staff Cost	205	221	219	207	208	187	196	167	138	212	171	163	(15)
Power and fuel	1,377	1,786	2,010	1,570	1,281	1,290	1,273	1,047	932	1,592	1,129	1,253	(26)
Freight	1,160	1,224	1,193	1,084	1,155	1,153	1,124	1,114	1,098	1,160	1,122	1,154	(5)
Other expenditure	732	810	934	710	574	563	663	673	548	742	607	643	(15)
Total cost	4,183	4,478	4,775	4,540	4,296	4,164	4,215	4,376	4,179	4,438	4,229	4,205	(1)
EBITDA	1,059	926	445	812	977	1,045	1,020	1,038	837	852	980	1,038	(19)

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



Highlights from the management commentary

Cost reduction and targets

- The company targets further cost reduction of INR530/t to INR3650/t (at consol.) by FY28 to become the cost leader in the industry. Its key focus areas would be logistics optimization, and reduction in energy and raw materials costs. Logistics would drive ~40% of total cost savings; while ~50-55% would be from manufacturing efficiencies and ~5-10% from other initiatives.
- WHRS capacity will increase to 186MW by FY25 vs. 134MW currently. Its share of WHRS in total power consumption increased to 13.5% (up 4.5pp YoY) in 4Q and 12.4% (7.4pp YoY) in FY24. The company's all-clinker expansions would be equipped with WHRS. Further, it is seating up 1 GW of other renewable power capacity by mid-FY26 (200MW will be operational in May'24). It aims to increase green power share to 31%/60% by FY25/FY28. This would drive cost savings of INR100/t.
- It has captive coal mine at Gare Palma and has further won coal mine in Madhya Pradesh and Maharashtra with extractable capacity of 2mtpa. It is planning to increase the share of coal from captive mines to 80-90%. Further, AFR share increased to 10.6% in 4QFY24 vs. 8.5% earlier. It plans to increase TSR (%) to 27% by FY28.

Motilal Oswal

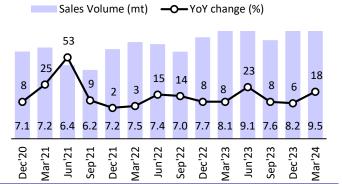
- The company is also procuring 11 general purpose wagons (8 delivered and 3 will be procured in FY25). Additionally, 26 BCFC rakes have been ordered to facilitate the movement of fly ash. Improvement in sea logistics (for which detailed plan will be shared in the coming quarters) and higher share of own rakes will help to reduce logistics cost. The company is developing sea infrastructure at its west coast plants for lowering logistics cost.
- Sanghi Industries: Clinker/cement production stood at 0.7mt/0.8mt in 4Q. Under MSA, volume from Sanghi to ACEM/ACC was 0.48mt/0.21mt. The rated clinker capacity of Sanghi is 6.6mtpa and it believes post refurbishment work (likely to complete in 1HFY25), it will increase to 7mtpa. It targets 5mt clinker production in FY25.

Capacity expansion and capex plan

- At Bhatapara clinker expansion (line 3) of 4mtpa, 67% of civil work is completed and 30% of overall project is completed. It is likely to be commissioned by 4QFY25. This will support grinding unit expansion at Sankrail (2.4mtpa) and Farakka (2.4mtpa; Phase I). At Maratha clinker expansion (line -2), EPC contract has been awarded and project activities have been started. This is expected to get commissioned by 2QFY26. The company is setting up two greenfield grinding units (2mtpa each) at Amravati and Jalgaon. These are likely to be commissioned in FY26.
- The company has plans to add three more clinker plants at West (at Sanghi's plant), North and South region (4mtpa each). It already has requisite land and limestone results while, environment clearance (EC) is awaited. Clinker capacity expansions are predominantly planned as brownfield projects, whereas grinding capacity expansions would be a mix of greenfield and brownfield initiatives. Overall, 80% of the capacity expansion will occur through brownfield projects, with the remainder attributed to greenfield expansions.
- The company targets to expand its grinding capacity to 100mtpa/120mtpa/140mtpa by FY26/FY27/FY28 vs. ~79mtpa currently. Out of these, 20mtpa is already under execution, while the remaining 41mtpa projects are at different stages of land acquisition and approvals.
- **Capex**: Consol. capex stood at INR45b in FY24 and it will further spend INR50-60b in FY25 toward its growth plans.

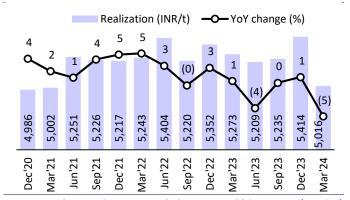
Story in charts

Exhibit 1: Sales volume* up 18% YoY



Source: Company, MOFSL; Note: *Standalone

Exhibit 2: Realization declined 5% YoY



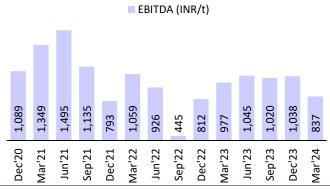
Source: Company, MOFSL; Note: FY23 is 15-month period

Exhibit 3: OPEX/t down 3% YoY



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

Exhibit 4: EBITDA/t was at INR837 (est. INR1,038)



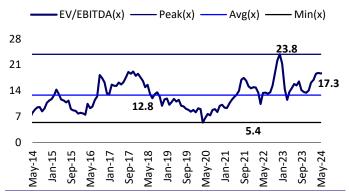
Source: Company, MOFSL; Note: FY23 is 15-month period

Exhibit 5: Key performance indicators - per ton analysis

INR/t	Mar'24	Mar'23	YoY (%)	Dec'23	QoQ (%)
Blended Realization	5,016	5,273	(5)	5,414	(7)
Raw Material	1,463	1,077	36	1,375	6
Staff Cost	138	208	(33)	167	(17)
Power and Fuel	932	1,281	(27)	1,047	(11)
Freight	1,098	1,155	(5)	1,114	(1)
Other exp.	548	873	(37)	673	(19)
Total Cost	4,179	4,296	(3)	4,376	(5)
EBITDA	837	977	(14)	1,038	(19)

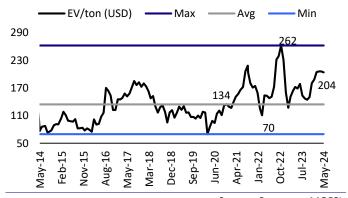
Source: Company, MOFSL

Exhibit 6: One-year forward EV/EBITDA chart



Source: Company, MOFSL

Exhibit 7: One-year forward EV/t chart



Source: Company, MOFSL

Standalone financials and valuations

V/F December	0140	CV4C	CV2C	CV24	FV22*	EV2.4	EVALE	(INR m)
Y/E December	CY18	CY19	CY20	CY21	FY23*	FY24	FY25E	FY26E
Net Sales	1,13,568	1,16,679	1,13,719	1,39,790	1,99,854	1,79,193	1,99,352	2,21,325
Change (%)	8.6	2.7	-2.5	22.9	43.0	-10.3	11.2	11.0
Total Expenditure	94,653	95,190	87,253	1,07,639	1,67,650	1,45,485	1,57,977	1,72,931
As a percentage of Sales	83.3	81.6	76.7	77.0	83.9	81.2	79.2	78.1
EBITDA	18,915	21,489	26,466	32,152	32,204	33,708	41,375	48,394
Change (%)	-2.5	13.6	23.2	21.5	0.2	4.7	22.7	17.0
Margin (%)	16.7	18.4	23.3	23.0	16.1	18.8	20.8	21.9
Depreciation	5,481	5,438	5,212	5,517	8,324	9,380	10,380	11,780
EBIT	13,434	16,050	21,254	26,634	23,880	24,329	30,996	36,614
Interest	823	835	831	910	1,280	1,623	1,430	1,429
Other Income – Rec.	3,391	4,265	3,720	2,812	9,523	8,526	8,704	8,929
PBT before EO Exp.	16,002	19,480	24,144	28,536	32,123	31,233	38,270	44,115
EO Exp./(Inc.)	-2,779	0	0	657	1,573	158	0	C
PBT after EO Exp.	18,781	19,480	24,144	27,879	30,551	31,075	38,270	44,115
Current Tax	4,780	5,730	6,520	6,908	4,964	7,221	9,797	11,293
Deferred Tax	-869	-1,535	-278	139	52	507	0	C
Tax Rate (%)	20.8	21.5	25.9	25.3	16.4	24.9	25.6	25.6
Reported PAT	14,870	15,285	17,901	20,832	25,535	23,347	28,473	32,822
PAT Adj. for EO Items	12,091	14,415	17,901	21,323	25,212	23,505	28,473	32,822
Change (%)	-3.2	19.2	24.2	19.1	18.2	-6.8	21.1	15.3
Margin (%)	10.6	12.4	15.7	15.3	12.6	13.1	14.3	14.8
Balance Sheet Y/E December	CY18	CY19	CY20	CY21	FY23*	FY24	FY25E	(INR m)
Equity Share Capital	3,971	3,971	3,971	3,971	3,971	4,395	4,926	4,926
Money received against issue of warrants					50,000	27,797		
Total Reserves	2,06,154	2,18,081	1,99,187	2,18,078	2,31,084	3,37,843	4,65,880	4,87,618
Net Worth	2,10,125	2,22,052	2,03,159	2,22,049	2,85,055	3,70,035	4,70,807	4,92,544
Def. Liabilities	3,722	2,161	1,860	2,137	2,181	2,693	2,693	2,693
Total Loans	397	353	436	469	477	368	435	435
Capital Employed	2,14,244	2,24,565	2,05,454	2,24,655	2,87,713	3,73,096	4,73,935	4,95,672
Gross Block	73,721	80,435	86,658	1,08,864	1,26,928	1,38,143	1,83,627	2,18,627
Less: Accum. Depn.	17,085	22,310	27,343	32,407	40,731	50,110	60,490	72,269
Net Fixed Assets	56,636	58,125	59,315	76,457	86,198	88,032	1,23,138	1,46,358
Capital WIP	9,996	14,562	21,300	10,859	9,430	15,485	15,000	13,000
Investments in subsidiaries	1,18,138	1,17,890	1,17,877	1,17,647	1,17,667	1,40,489	1,40,489	1,40,489
Investments – Trade	2,305	6,537	788	5,266	17,180	22,147	22,147	22,147
Curr. Assets	64,792	72,793	55,534	71,348	1,28,567	1,75,135	2,44,144	2,46,300
Inventory	12,778	9,541	7,466	14,641	16,394	15,903	18,932	21,025
Debtors	4,703	5,132	1,915	2,947	5,649	7,168	7,977	8,858
Cash and Bank Bal.	31,045	40,638	28,500	36,942	68,280	88,334	1,52,256	1,50,187
Others	16,267	17,483	17,652	16,818	38,244	63,730	64,980	66,230
Curr. Liability and Prov.	37,623	45,342	49,360	57,173	71,328	68,193	70,983	72,622
Creditors	36,327	43,985	48,765	56,423	70,429	66,938	69,728	71,367
Provisions	1,296	1,357	595	750	899	1,255	1,255	1,255
Net Current Assets	27,169	27,451	6,174	14,176	57,239	1,06,942	1,73,161	1,73,677
Appl. of Funds	2,14,244	2,24,565	2,05,454	2,24,404	2,87,713	3,73,096	4,73,935	4,95,672

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

 $Motilal\ Oswal$ Ambuja Cements

Standalone financials and valuations

Ratios								
Y/E December/March	CY18	CY19	CY20	CY21	FY23*	FY24	FY25E	FY26E
Basic (INR)								
EPS	6.1	7.3	9.0	10.7	12.7	10.7	11.6	13.3
Cash EPS	8.8	10.0	11.6	13.5	16.9	15.0	15.8	18.1
BV/Share	105.8	111.8	102.3	111.8	143.6	168.4	191.1	200.0
DPS	1.5	1.5	18.5	6.3	2.5	2.0	4.5	4.5
Payout (%)	22.3	19.5	205.2	60.1	19.4	18.8	38.9	33.8
Valuation (x)								
P/E ratio	82.6	69.3	55.8	46.9	39.6	47.0	43.5	37.8
Cash P/E ratio	56.9	50.3	43.2	37.2	29.8	33.6	31.9	27.8
P/BV ratio	4.8	4.5	4.9	4.5	3.5	3.0	2.6	2.5
EV/Sales ratio	8.4	8.0	8.3	6.8	4.5	5.6	5.6	5.0
EV/EBITDA ratio	50.6	43.6	35.9	29.4	28.1	25.9	19.6	16.8
EV/t (Cap) - USD	390	382	387	364	348	324	278	255
Dividend Yield (%)	0.2	0.2	3.0	1.0	0.4	0.3	0.7	0.7
Return Ratios (%)	0.2	0.2	3.0	1.0	0.4	0.5	0.7	0.7
RoE	13.8	14.6	18.7	22.3	18.4	11.8	10.1	9.6
RoCE	15.0	16.1	19.3	22.5	20.4	12.4	10.1	9.9
RoIC	18.9	23.6	35.3	41.0	26.3	16.5	15.6	15.2
Working Capital Ratios	10.5	23.0	33.3	41.0	20.3	10.5	15.0	13.2
Asset Turnover (x)	0.5	0.5	0.6	0.6	0.7	0.5	0.4	0.4
	15.1	16.1	6.1	7.7	10.3	14.6		
Debtor (Days)	41	30	24	38	30	32	14.6	14.6
Inventory (Days)	87.3	85.9	19.8	37.0		217.8	35 317.0	35
Work Cap (Days)	87.3	85.9	19.8	37.0	104.5	217.8	317.0	286.4
Leverage Ratio (x)	17	1.0	1.1	1.2	1.0	2.6	2.4	2.4
Current Ratio	1.7	1.6	1.1	1.2	1.8	2.6	3.4	3.4
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	CY18	CY19	CY20	CY21	FY23*	FY24	FY25E	FY26E
OP/(Loss) before Tax	15,061	19,480	24,144	27,879	30,551	31,075	38,270	44,115
Depreciation	5,481	5,438	5,212	5,517	8,324	9,380	10,380	11,780
Interest and Finance Charges	-709	-1,515	-1,369	-214	-1,868	-4,036	0	0
Direct Taxes Paid	-6,251	-808	-4,648	-3,659	-3,346	-7,321	-9,797	-11,293
(Inc.)/Dec. in WC	-6,166	3,877	3,676	-4,557	-7,855	1,567	-2,297	-2,586
CF from Operations	7,416	26,472	27,015	24,966	25,807	30,664	36,556	42,015
Others	-2,406	-1,632	-952	-201	-5,711	946	0	0
CF from Operations incl. EO	5,009	24,840	26,062	24,765	20,096	31,610	36,556	42,015
(Inc.)/Dec. in FA	-5,936	-11,114	-9,756	-11,430	-21,116	-19,932	-45,000	-33,000
Free Cash Flow	-927	13,726	16,307	13,336	-1,020	11,678	-8,444	9,015
(Pur.)/Sale of Investments	3,393	3,734	3,342	-4,096	-11,502	-56,138	0	0
Others	13,174	-3,999	5,819	2,370	7,744	7,545	0	0
CF from Investments	10,631	-11,379	-595	-13,156	-24,874	-68,526	-45,000	-33,000
Issue of Shares	0	0	0	0	0	424	531	0
Inc./(Dec.) in Debt	216	0	-237	35	-31	-141	67	0
Interest Paid	-513	-558	-633	-756	-679	-1,388	0	0
Dividend Paid	-4,498	-3,320	-36,646	-2,021	-12,514	-4,964	-11,084	-11,084
Others	12	11	-88	-427	49,340	63,039	82,852	0
CF from Fin. Activity	-4,784	-3,868	-37,604	-3,169	36,115	56,970	72,366	-11,084
Inc./Dec. in Cash	10,856	9,593	-12,137	8,441	31,338	20,054	63,922	-2,069
Opening Balance	20,189	31,045	40,638	28,500	36,942	68,280	88,334	1,52,256
Closing Balance	31,045	40,638	28,500	36,941	68,279	88,334	1,52,256	
		40,038						1,50,187

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

7

Explanation of Investment Rating							
Investment Rating	Expected return (over 12-month)						
BUY	>=15%						
SELL	<-10%						
NEUTRAL	< - 10 % to 15%						
UNDER REVIEW	Rating may undergo a change						
NOT RATED	We have forward looking estimates for the stock but we refrain from assigning recommendation						

*In case the recommendation given by the Research Analyst is inconsistent with the investment rating legend for a continuous period of 30 days, the Research Analyst shall be within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend.

Disclosures

The following Disclosures are being made in compliance with the SEBI Research Analyst Regulations 2014 (herein after referred to as the Regulations).

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Depository participant services & distribution of various financial products. MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motifal Oswal Financial Services Limited are available on the website at http://onli

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 Proc https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx Proceedings of Motilal Oswal Financial Services Limited available are

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. INH00000412) has an agreement with Motilal Oswal capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

For U.S.

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

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

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

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

Nainesh Rajani

Email: nainesh.raiani@motilaloswal.com

Contact: (+65) 8328 0276

- MOFSL, Research Analyst and/or his relatives does not have financial interest in the subject company, as they do not have equity holdings in the subject company.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- Research Analyst has not served as director/officer/employee in the subject company
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received any compensation or other benefits from third party in connection with the research report MOFSL has not engaged in market making activity for the subject company

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public 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)

02 May 2024

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:

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.