

May 17, 2023

Q4FY23 Result Update

☑ Change in Estimates | ☑ Target | ■ Reco

Change in Estimates

	Cur	rent	Prev	/ious	
	FY24E	FY25E	FY24E	FY25E	
Rating	В	UY	В	UY	
Target Price	7	15	810		
Sales (Rs. m)	53,112	63,923	57,086	68,186	
% Chng.	(7.0)	(6.3)			
EBITDA (Rs. m)	6,880	9,456	8,399	10,892	
% Chng.	(18.1)	(13.2)			
EPS (Rs.)	25.2	36.5	29.3	39.0	
% Chng.	(13.9)	(6.4)			

Key Financials - Consolidated

Y/e Mar	FY22	FY23	FY24E	FY25E
Sales (Rs. m)	49,494	47,727	53,112	63,923
EBITDA (Rs. m)	8,318	5,471	6,880	9,456
Margin (%)	16.8	11.5	13.0	14.8
PAT (Rs. m)	4,767	3,075	4,006	5,798
EPS (Rs.)	30.0	19.3	25.2	36.5
Gr. (%)	609.6	(35.5)	30.3	44.7
DPS (Rs.)	5.0	3.3	4.4	6.3
Yield (%)	1.3	0.8	1.1	1.6
RoE (%)	21.9	12.1	14.1	17.9
RoCE (%)	27.6	14.8	16.6	20.6
EV/Sales (x)	1.3	1.4	1.3	1.1
EV/EBITDA (x)	7.8	12.1	9.8	7.2
PE (x)	13.2	20.5	15.7	10.9
P/BV (x)	2.6	2.4	2.1	1.8

Key Data	JUBN.BO JUBLINGR IN
52-W High / Low	Rs.593 / Rs.350
Sensex / Nifty	61,932 / 18,287
Market Cap	Rs.63bn/ \$ 768m
Shares Outstanding	159m
3M Avg. Daily Value	Rs.162.47m

Shareholding Pattern (%)

Promoter's	51.47
Foreign	7.73
Domestic Institution	5.98
Public & Others	34.81
Promoter Pledge (Rs bn)	-

Stock Performance (%)

	1M	6M	12M
Absolute	(0.5)	(30.5)	(14.9)
Relative	(3.0)	(30.5)	(27.2)

Nitesh Dhoot

niteshdhoot@plindia.com | 91-22-66322260

Jubilant Ingrevia (JUBLINGR IN)

Rating: BUY | CMP: Rs396 | TP: Rs715

Weathering challenging times

Quick Pointers:

- Specialty Chemical (SPCM) margin at 11.8% (vs 18.2% YoY/ 18.6% QoQ) on headwinds in agro-chemicals; management sees this as a short term impact.
- Projects commissioned include (a) cGMP multipurpose plant (Bharuch) (b)
 Non-GMP plant (Gajraula) and (c) Acetic Anhydride plant (Bharuch).

We reduce our FY24/25E EBITDA estimate by 18%/13% and EPS estimate by 14%/6% to factor (a) headwinds on global agro chemicals (generics) along with resultant margin pressure in Specialty Chemicals (SPCM) in H1FY24 and (b) spreads normalization in Chemical Intermediates (CI). FY23 has been a challenging year due to non-availability of contracted coal; Nutrition & Health Solutions (NHS) volumes impacted due to avian influenza and CI segment witnessing price correction led by key RM (acetic acid price corrected 40% YoY) and spread normalization. While H1FY24 might remain muted as some of these challenges persist, NHS segment is witnessing healthy volume recovery coupled with improved prices. Acetic anhydride volumes are also improving steadily and CDMO is also seeing strong traction (to aid absorption of new capacities). While we cut our SOTP based TP to Rs715 (earlier Rs810) to factor weak Q4 performance and near term headwinds, we believe with capex outlay and timeline's intact, aided by healthy OCF's and a strong Balance Sheet, JUBLINGR is well poised to tap into long term growth opportunities as challenges abate. Reiterate 'BUY'.

- Consolidated revenue declined 12% YoY/ 1% QoQ to Rs 11.5 bn (PLe Rs11.5bn) largely led by CI revenue decline on lower raw material prices (key RM Acetic acid prices down 40% YoY), and decline in prices of NHS products while SPCM revenue was +5% YoY/ flat QoQ.
- EBITDA declined 28% YoY/ 32% QoQ to Rs 1.02 bn (PLe 1.26) and EBITDA margin at 8.9% (vs 11.0% YoY/ 13.1% QoQ), was impacted by SPCM segment on headwinds in agro-chemicals (agro-chemicals contributes ~40% to SPCM segment revenue) and challenging market situation of Niacinamide.
- PAT declined 24% YoY/ 43% QoQ to Rs 523 mn (PLe Rs 732 mn), impacted by lower operating profit, despite being aided by higher other income (+29% QoQ) lower finance cost (-7%YoY/-15% QoQ) and tax (-50% YoY/-23% QoQ).
- Balance sheet remained healthy with Net Debt at Rs312 mn (Net Debt/ Equity at 0.1x) despite Rs4.8bn cash outflow on capex in FY23, aided by robust operating cash flow generation of Rs4.6bn. Core working capital remains healthy at 57 days (vs 62 days in H2FY23 and 51 days in FY22).
- Key managerial change as Mr. Anil Khubchandani resigned as co- CEO and whole-time director of the company (was heading the specialty chemicals vertical). Mr. Chandan Singh Sengar has been appointed as Co-CEO & Whole-time director (w.e.f May 16, 2023) for a period of 5 years.



Concall takeaways: (1) SPCM segment impacted by demand and price headwinds majorly from paraquat and diquat where pyridine finds usage; impact primarily in US and Brazil (2) Softer coal prices and efficiency improvement, aided reduction in power costs. Supply of contracted coal has eased at Gajraula. Additionally, upcoming grid connectivity shall aid power cost reduction further (3) Positive traction witnessed in CDMO; newly commissioned plants to aid volume and revenue growth in CDMO (4) Management expects ~85% capacity utilization for cGMP and non-cGMP plants in H2FY24 (5) Niacinamide volumes improved sequentially in Q4 and management expects improvement in global demand, going forward (6) New cGMP compliant facility for cosmetic grade Niacinamide was approved in Q4; 3000mtpa capacity to commission by June'24 (7) Development work of new cGMP compliant capacity for Food grade Vitamin B4 is on track; expecting approval in Q2FY24 (8) Higher acetic anhydride volumes placed in global market, market share enhanced (9) Outlook for acetic anhydride appears to be stable, global demand continues to grow in several end-use segments (10) Company on-boarded new customers for acetic anhydride in Europe (11) Utilization of old acetic anhydride capacity is at 85-90% currently. Newly commissioned 50,000mtpa capacity to be fully utilized by FY25E (12) Food grade acetic acid demand picking up gradually; capacity utilization expected ~50% in FY24 (13) Incremental depreciation to be ~Rs200-250mn.

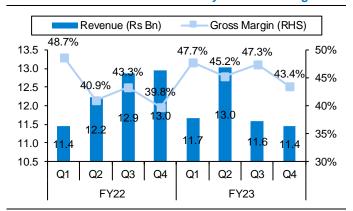
Exhibit 1: Q4FY23 Result Overview (Rs mn)

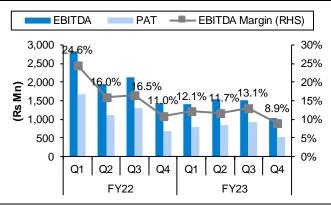
Y/e March	Q4FY23	Q4FY22	YoY gr.	Q3FY23	QoQ gr.	FY23	FY22	YoY gr.
Net Revenue	11,450	12,958	-11.6%	11,583	-1.2%	47,727	49,494	-3.6%
Material Cost	6,479	7,803	-17.0%	6,100	6.2%	25,817	28,191	-8.4%
Gross Profit	4,971	5,155	-3.6%	5,483	-9.3%	21,910	21,303	2.9%
Gross Margin (%)	43.4%	39.8%		47.3%		45.9%	43.0%	
Employee expenses	860	821	4.8%	824	4.4%	3,435	3,273	4.9%
Power & fuel expenses	1,503	1,446	3.9%	1,789	-16.0%	7,091	4,682	51.4%
Other operating expenses	1,587	1,464	8.4%	1,358	16.9%	5,914	5,030	17.6%
EBITDA	1,021	1,424	-28.3%	1,512	-32.5%	5,470	8,318	-34.2%
EBITDA margin (%)	8.9%	11.0%		13.1%		11.5%	16.8%	
Depreciation	298	309	-3.5%	300	-0.5%	1,222	1,234	-1.0%
EBIT	722	1,115	-35.2%	1,212	-40.4%	4,249	7,084	-40.0%
Other income	90	92	-2.1%	70	28.6%	334	315	6.0%
Interest cost	57	61	-6.9%	67	-14.8%	216	309	-30.3%
PBT	755	1,145	-34.1%	1,215	-37.9%	4,366	7,090	-38.4%
Tax	232	459	-49.5%	301	-22.8%	1,292	2,322	-44.4%
Minority interest	0	0		0		0	0	
PAT	523	686	-23.8%	914	-42.8%	3,074	4,767	-35.5%
Tax on non-recurring items	0	0		0		0	0	
Adjusted PAT	523	686	-23.8%	914	-42.8%	3,074	4,767	-35.5%
Adj. PAT margin (%)	4.6%	5.3%		7.9%		6.4%	9.6%	
No. of shares (mn)	159	159	0.0%	159	0.0%	159	159	0.0%
Adj. EPS (Rs.)	3.3	4.3	-23.8%	5.8	-42.8%	19.3	30.0	-35.5%

Source: Company, PL

Exhibit 2: YoY revenue decline led by NHS and CI segments Ex







Source: Company, PL

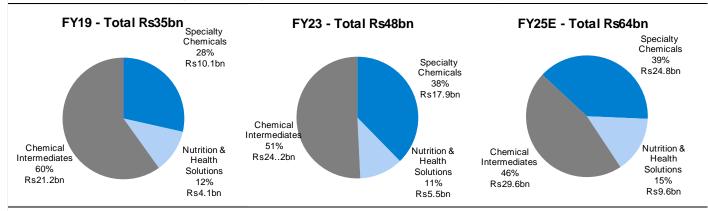
Source: Company, PL

Exhibit 4: Segmental breakup

Y/e March	Q1FY22	Q2FY22	Q3FY22	Q4FY22	Q1FY23	Q2FY23	Q3FY23	Q4FY23
Revenue (Rs mn)	11,446	12,226	12,865	12,958	11,658	13,036	11,590	11,450
Specialty Chemicals	3,047	2,951	3,488	4,441	3,825	4,804	4,680	4,680
Nutrition & Health Solutions	1,671	1,788	2,158	2,056	1,502	1,137	1,320	1,550
Chemical Intermediates	6,728	7,487	7,219	6,461	6,331	7,096	5,590	5,220
Change (% YoY)	56%	56%	44%	20%	2%	7%	-10%	-12%
Specialty Chemicals	19%	17%	22%	35%	26%	63%	34%	5%
Nutrition & Health Solutions	13%	43%	37%	3%	-10%	-36%	-39%	-25%
Chemical Intermediates	103%	84%	60%	18%	-6%	-5%	-23%	-19%
Revenue Mix (%)								
Specialty Chemicals	27%	24%	27%	34%	33%	37%	40%	41%
Nutrition & Health Solutions	15%	15%	17%	16%	13%	9%	11%	14%
Chemical Intermediates	59%	61%	56%	50%	54%	54%	48%	46%
EBITDA (Rs mn)	2,820	1,949	2,126	1,418	1,409	1,529	1,510	1,020
Specialty Chemicals	840	710	760	810	640	770	870	550
Nutrition & Health Solutions	270	349	530	500	190	136	90	50
Chemical Intermediates	1,840	1,030	1,000	300	760	767	710	590
Less: Unallocated	(70)	(70)	(70)	(100)	(80)	(70)	(90)	(80)
Less: Other Income	(60)	(70)	(94)	(92)	(101)	(73)	(70)	(90)
EBITDA Margin (%)	24.6%	15.9%	16.5%	10.9%	12.1%	11.7%	13.0%	8.9%
Specialty Chemicals	27.6%	24.1%	21.8%	18.2%	16.7%	16.0%	18.6%	11.8%
Nutrition & Health Solutions	16.2%	19.5%	24.6%	24.3%	12.6%	11.9%	6.8%	3.2%
Chemical Intermediates	27.3%	13.8%	13.9%	4.6%	12.0%	10.8%	12.7%	11.3%
EBITDA Change (% YoY)	122%	38%	36%	-29%	-50%	-22%	-29%	-28%
Specialty Chemicals	22%	0%	29%	17%	-24%	8%	14%	-32%
Nutrition & Health Solutions	-13%	25%	89%	16%	-30%	-61%	-83%	-90%
Chemical Intermediates	667%	158%	47%	-71%	-59%	-26%	-29%	97%
EBITDA Mix (%)								
Specialty Chemicals	28%	34%	33%	50%	40%	46%	52%	46%
Nutrition & Health Solutions	9%	17%	23%	31%	12%	8%	5%	4%
Chemical Intermediates	62%	49%	44%	19%	48%	46%	43%	50%

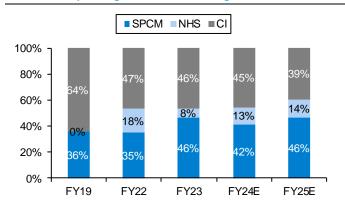
Source: Company, PL

Exhibit 5: Revenue share of higher value segments (SPCM +NHS) to increase to 54% by FY25E (from 44%/49% in FY22/23)



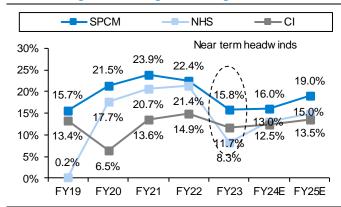
Source: Company, PL

Exhibit 6: Improving EBITDA mix as high value share rises



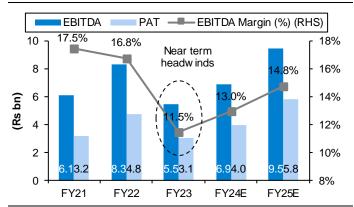
Source: Company, PL

Exhibit 7: Higher value segments margin to recover



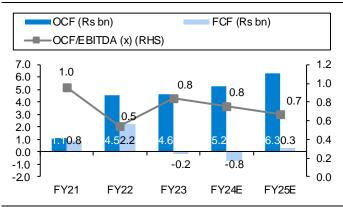
Source: Company, PL

Exhibit 8: Profitability to recover from FY23 trough levels



Source: Company, PL ^FY21 proforma financials

Exhibit 9: Strong OCF (FY23-25E) to aid self sustained capex



Source: Company, PL ^FY21 pertains to 2 months cash flows

0.18

0.16

0.14

0.12

0.10

0.08

0.06

0.04

0.02

5.1

FY25E



Exhibit 10: Healthy return ratios (cyclical high in FY22 led by CI segment)

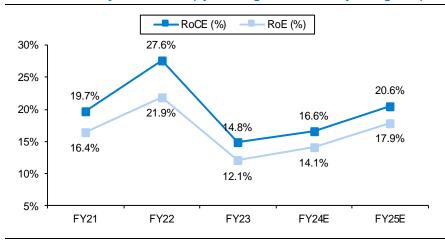


Exhibit 12: BS remains healthy despite large capex

0.12

FY23

4.6

FY24E

Source: Company, PL

Exhibit 11: Gross block to increase significantly (FY23-25E)

Net Debt (Rs bn) — Net Debt / Equity (x) (RHS)

6.0] 0.15 0.15 0

5.0

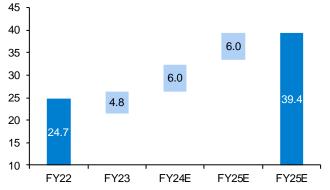
4.0

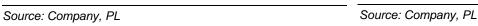
3.0

2.0

1.0

0.0





FY22

0.07



Exhibit 13: SOTP – Reiterate BUY with SOTP based TP of Rs 715 (Rs 810 earlier)

	FY22	FY23E	FY24E	FY25E	CAGR (FY23-25E)
EBITDA (Rs mn)					
Specialty Chemicals	3,120	2,840	3,063	4,704	29%
Nutrition & Health Solutions	1,640	460	957	1,442	77%
Chemical Intermediates	4,170	2,830	3,326	3,990	19%
Segment EBITDA - Total	8,930	6,130	7,346	10,136	29%
Less: Unallocable items	(615)	(654)	(466)	(680)	
Consolidated EBITDA (Rs mn)	8,315	5,476	6,880	9,456	31%
EV/EBITDA Target Multiple (x)				FY25E	
Specialty Chemicals				16	
Nutrition & Health Solutions				11	
Chemical Intermediates				8	
Unallocable items				8	
Enterprise Value (Rs mn)				FY25E	Per Share
Specialty Chemicals				75,264	473
Nutrition & Health Solutions				15,861	100
Chemical Intermediates				32,715	206
Less: Unallocable items				(5,440)	(34)
Enterprise Value (Rs mn)				1,18,400	745
Less: Net Debt and Investments				(4,627)	(30)
Equity Value / MCap (Rs mn)				1,13,773	715
Target Price (Rs/ sh)				715	

Source: PL



Financials

_	
Statement	

Income Statement (Rs m)				
Y/e Mar	FY22	FY23	FY24E	FY25E
Net Revenues	49,494	47,727	53,112	63,923
YoY gr. (%)	623.4	(3.6)	11.3	20.4
Cost of Goods Sold	28,399	25,816	29,962	35,651
Gross Profit	21,095	21,911	23,151	28,273
Margin (%)	42.6	<i>4</i> 5.9	43.6	44.2
Employee Cost	3,273	3,435	3,789	4,434
Other Expenses	9,504	13,005	12,481	14,383
EBITDA	8,318	5,471	6,880	9,456
YoY gr. (%)	610.2	(34.2)	25.7	37.4
Margin (%)	16.8	11.5	13.0	14.8
Depreciation and Amortization	1,234	1,222	1,411	1,723
EBIT	7,084	4,250	5,469	7,732
Margin (%)	14.3	8.9	10.3	12.1
Net Interest	309	216	312	341
Other Income	315	334	200	360
Profit Before Tax	7,090	4,368	5,357	7,752
Margin (%)	14.3	9.2	10.1	12.1
Total Tax	2,322	1,292	1,350	1,954
Effective tax rate (%)	32.8	29.6	25.2	25.2
Profit after tax	4,768	3,075	4,007	5,799
Minority interest	-	-	-	-
Share Profit from Associate	(1)	0	0	0
Adjusted PAT	4,767	3,075	4,006	5,798
YoY gr. (%)	608.3	(35.5)	30.3	44.7
Margin (%)	9.6	6.4	7.5	9.1
Extra Ord. Income / (Exp)	-	-	-	-
Reported PAT	4,767	3,075	4,006	5,798
YoY gr. (%)	777.0	(35.5)	30.3	44.7
Margin (%)	9.6	6.4	7.5	9.1
Other Comprehensive Income	899	-	-	-
Total Comprehensive Income	5,666	3,075	4,006	5,798
Equity Shares O/s (m)	159	159	159	159
EPS (Rs)	30.0	19.3	25.2	36.5

Source: Company Data, PL Research

Balance Sheet Abstract (Rs m)

Y/e Mar	FY22	FY23	FY24E	FY25E
Non-Current Assets				
Gross Block	24,697	26,398	32,398	39,398
Tangibles	24,473	26,124	32,124	39,124
Intangibles	224	273	273	273
Acc: Dep / Amortization	6,714	7,936	9,347	11,070
Tangibles	6,583	7,805	9,216	10,939
Intangibles	131	131	131	131
Net fixed assets	17,983	18,462	23,051	28,328
Tangibles	17,890	18,320	22,909	28,186
Intangibles	93	142	142	142
Capital Work In Progress	1,742	5,249	5,249	4,249
Goodwill	-	-	-	-
Non-Current Investments	67	87	87	87
Net Deferred tax assets	(1,220)	(1,801)	(1,801)	(1,801)
Other Non-Current Assets	385	512	512	512
Current Assets				
Investments	-	-	-	-
Inventories	9,112	10,351	10,913	12,610
Trade receivables	5,809	5,109	5,685	6,843
Cash & Bank Balance	485	846	462	240
Other Current Assets	2,235	1,869	2,080	2,503
Total Assets	37,972	42,589	48,145	55,477
Equity				
Equity Share Capital	159	159	159	159
Other Equity	24,172	26,503	29,817	34,612
Total Networth	24,331	26,662	29,976	34,771
Non-Current Liabilities				
Long Term borrowings	997	1,500	2,400	1,900
Provisions	679	661	730	854
Other non current liabilities	67	70	70	70
Current Liabilities				
ST Debt / Current of LT Debt	1,291	2,467	2,689	3,489
Trade payables	7,978	8,011	8,915	10,730
Other current liabilities	1,259	1,317	1,466	1,764
Total Equity & Liabilities	37,972	42,589	48,145	55,477

Source: Company Data, PL Research



Cash Flow (Rs m)				
Y/e Mar	FY22	FY23	FY24E	FY25E
PBT	7,089	4,367	5,356	7,752
Add. Depreciation	1,234	1,222	1,411	1,723
Add. Interest	309	216	312	341
Less Financial Other Income	315	334	200	360
Add. Other	200	45	(200)	(360)
Op. profit before WC changes	8,832	5,850	6,880	9,455
Net Changes-WC	(3,024)	(452)	(322)	(1,214)
Direct tax	(1,281)	(774)	(1,326)	(1,905)
Net cash from Op. activities	4,527	4,625	5,232	6,337
Capital expenditures	(2,276)	(4,782)	(6,000)	(6,000)
Interest / Dividend Income	13	11	200	360
Others	1,544	52	(1)	-
Net Cash from Invt. activities	(719)	(4,719)	(5,800)	(5,640)
Issue of share cap. / premium	(183)	-	-	-
Debt changes	(3,188)	1,676	1,122	300
Dividend paid	(452)	(793)	(693)	(1,003)
Interest paid	(330)	(440)	(312)	(341)
Others	(14)	2	68	124
Net cash from Fin. activities	(4,166)	445	185	(920)
Net change in cash	(357)	351	(384)	(223)
Free Cash Flow	2,226	(189)	(768)	337

Source: Company Data, PL Research

Quarterly Financials (Rs m)

Y/e Mar	Q1FY23	Q2FY23	Q3FY23	Q4FY23
Net Revenue	11,658	13,036	11,583	11,450
YoY gr. (%)	1.9	6.6	(10.0)	(11.6)
Raw Material Expenses	6,092	7,146	6,100	6,479
Gross Profit	5,566	5,890	5,483	4,971
Margin (%)	47.7	45.2	47.3	43.4
EBITDA	1,409	1,529	1,512	1,021
YoY gr. (%)	(50.0)	(21.7)	(28.9)	(28.3)
Margin (%)	12.1	11.7	13.1	8.9
Depreciation / Depletion	314	310	300	298
EBIT	1,095	1,219	1,212	722
Margin (%)	9.4	9.4	10.5	6.3
Net Interest	41	51	67	57
Other Income	101	73	70	90
Profit before Tax	1,155	1,241	1,215	755
Margin (%)	9.9	9.5	10.5	6.6
Total Tax	361	398	301	232
Effective tax rate (%)	31.3	32.1	24.7	30.7
Profit after Tax	794	843	914	523
Minority interest	-	-	-	-
Share Profit from Associates	-	-	-	-
Adjusted PAT	794	843	914	523
YoY gr. (%)	(52.8)	(23.9)	(29.2)	(23.8)
Margin (%)	6.8	6.5	7.9	4.6
Extra Ord. Income / (Exp)	-	-	-	-
Reported PAT	794	843	914	523
YoY gr. (%)	(52.8)	(23.9)	(29.2)	(23.8)
Margin (%)	6.8	6.5	7.9	4.6
Other Comprehensive Income	(8)	1	10	31
Total Comprehensive Income	786	844	924	554
Avg. Shares O/s (m)	159	159	159	159
EPS (Rs)	5.0	5.3	5.8	3.3

Source: Company Data, PL Research

Key Financial Metrics				
Y/e Mar	FY22	FY23	FY24E	FY25E
Per Share(Rs)				
EPS	30.0	19.3	25.2	36.5
CEPS	37.7	27.0	34.1	47.3
BVPS	153.0	167.7	188.5	218.7
FCF	14.0	(1.2)	(4.8)	2.1
DPS	5.0	3.3	4.4	6.3
Return Ratio(%)				
RoCE	27.6	14.8	16.6	20.6
ROIC	19.2	10.7	12.7	15.5
RoE	21.9	12.1	14.1	17.9
Balance Sheet				
Net Debt : Equity (x)	0.1	0.1	0.2	0.1
Net Working Capital (Days)	51	57	53	50
Valuation(x)				
PER	13.2	20.5	15.7	10.9
P/B	2.6	2.4	2.1	1.8
P/CEPS	10.5	14.7	11.6	8.4
EV/EBITDA	7.8	12.1	9.8	7.2
EV/Sales	1.3	1.4	1.3	1.1
Dividend Yield (%)	1.3	0.8	1.1	1.6

Source: Company Data, PL Research





No.	Date	Rating	TP (Rs.) Share Price (Rs.)	
1	13-Apr-23	BUY	810	398
2	01-Feb-23	BUY	900	485
3	05-Jan-23	BUY	860	534
4	21-Oct-22	BUY	860	534
5	06-Oct-22	BUY	860	518
6	07-Sep-22	BUY	860	463

Analyst Coverage Universe

	Company Name	Rating	TP (Rs)	Share Price (Rs)
1	Aarti Industries	Hold	550	557
2	Fine Organic Industries	BUY	6,000	4,481
3	Jubilant Ingrevia	BUY	810	398
4	Laxmi Organic Industries	Hold	290	267
5	NOCIL	Accumulate	240	220

PL's Recommendation Nomenclature (Absolute Performance)

 Buy
 : > 15%

 Accumulate
 : 5% to 15%

 Hold
 : +5% to -5%

 Reduce
 : -5% to -15%

 Sell
 : < -15%</td>

Not Rated (NR) : No specific call on the stock
Under Review (UR) : Rating likely to change shortly



ANALYST CERTIFICATION

(Indian Clients)

We/l, Mr. Nitesh Dhoot- B.Com (Hons), MBA Research Analysts, authors and the names subscribed to this report, hereby certify that all of the views expressed in this research report accurately reflect our views about the subject issuer(s) or securities. We also certify that no part of our compensation was, is, or will be directly or indirectly related to the specific recommendation(s) or view(s) in this report.

(US Clients)

The research analysts, with respect to each issuer and its securities covered by them in this research report, certify that: All of the views expressed in this research report accurately reflect his or her or their personal views about all of the issuers and their securities; and No part of his or her or their compensation was, is or will be directly related to the specific recommendation or views expressed in this research report.

DISCLAIMER

Indian Clients

Prabhudas Lilladher Pvt. Ltd, Mumbai, India (hereinafter referred to as "PL") is engaged in the business of Stock Broking, Portfolio Manager, Depository Participant and distribution for third party financial products. PL is a subsidiary of Prabhudas Lilladher Advisory Services Pvt Ltd. which has its various subsidiaries engaged in business of commodity broking, investment banking, financial services (margin funding) and distribution of third party financial/other products, details in respect of which are available at www.plindia.com.

This document has been prepared by the Research Division of PL and is meant for use by the recipient only as information and is not for circulation. This document is not to be reported or copied or made available to others without prior permission of PL. It should not be considered or taken as an offer to sell or a solicitation to buy or sell any security.

The information contained in this report has been obtained from sources that are considered to be reliable. However, PL has not independently verified the accuracy or completeness of the same. Neither PL nor any of its affiliates, its directors or its employees accepts any responsibility of whatsoever nature for the information, statements and opinion given, made available or expressed herein or for any omission therein.

Recipients of this report should be aware that past performance is not necessarily a guide to future performance and value of investments can go down as well. The suitability or otherwise of any investments will depend upon the recipient's particular circumstances and, in case of doubt, advice should be sought from an independent expert/advisor.

Either PL or its affiliates or its directors or its employees or its representatives or its clients or their relatives may have position(s), make market, act as principal or engage in transactions of securities of companies referred to in this report and they may have used the research material prior to publication.

PL may from time to time solicit or perform investment banking or other services for any company mentioned in this document.

PL is in the process of applying for certificate of registration as Research Analyst under Securities and Exchange Board of India (Research Analysts) Regulations, 2014

PL submits that no material disciplinary action has been taken on us by any Regulatory Authority impacting Equity Research Analysis activities.

PL or its research analysts or its associates or his relatives do not have any financial interest in the subject company.

PL or its research analysts or its associates or his relatives do not have actual/beneficial ownership of one per cent or more securities of the subject company at the end of the month immediately preceding the date of publication of the research report.

PL or its research analysts or its associates or his relatives do not have any material conflict of interest at the time of publication of the research report.

PL or its associates might have received compensation from the subject company in the past twelve months

PL or its associates might have managed or co-managed public offering of securities for the subject company in the past twelve months or mandated by the subject company for any other assignment in the past twelve months.

PL or its associates might have received any compensation for investment banking or merchant banking or brokerage services from the subject company in the past twelve months.

PL or its associates might have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company in the past twelve months

PL or its associates might have received any compensation or other benefits from the subject company or third party in connection with the research report.

PL encourages independence in research report preparation and strives to minimize conflict in preparation of research report. PL or its analysts did not receive any compensation or other benefits from the subject Company or third party in connection with the preparation of the research report. PL or its Research Analysts do not have any material conflict of interest at the time of publication of this report.

It is confirmed that Mr. Nitesh Dhoot- B.Com (Hons), MBA Research Analysts of this report have not received any compensation from the companies mentioned in the report in the preceding twelve months

Compensation of our Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions.

The Research analysts for this report certifies that all of the views expressed in this report accurately reflect his or her personal views about the subject company or companies and its or their securities, and no part of his or her compensation was, is or will be, directly or indirectly related to specific recommendations or views expressed in this report.

The research analysts for this report has not served as an officer, director or employee of the subject company PL or its research analysts have not engaged in market making activity for the subject company

Our sales people, traders, and other professionals or affiliates may provide oral or written market commentary or trading strategies to our clients that reflect opinions that are contrary to the opinions expressed herein, and our proprietary trading and investing businesses may make investment decisions that are inconsistent with the recommendations expressed herein. In reviewing these materials, you should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest.

PL and its associates, their directors and employees may (a) from time to time, have a long or short position in, and buy or sell the securities of the subject company or (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 subject company or act as an advisor or lender/borrower to the subject company or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.

US Clients

This research report is a product of Prabhudas Lilladher Pvt. Ltd., which is the employer of the research analyst(s) who has prepared the research report. The research analyst(s) preparing the research report is/are resident outside the United States (U.S.) and are not associated persons of any U.S. regulated broker-dealer and therefore the analyst(s) is/are not subject to supervision by a U.S. broker-dealer, and is/are not required to satisfy the regulatory licensing requirements of FINRA or required to otherwise comply with U.S. rules or regulations regarding, among other things, communications with a subject company, public appearances and trading securities held by a research analyst account.

This report is intended for distribution by Prabhudas Lilladher Pvt. Ltd. only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the U.S. Securities and Exchange Act, 1934 (the Exchange Act) and interpretations thereof by U.S. Securities and Exchange Commission (SEC) in reliance on Rule 15a 6(a)(2). If the recipient of this report is not a Major Institutional Investor as specified above, then it should not act upon this report and return the same to the sender. Further, this report may not be copied, duplicated and/or transmitted onward to any U.S. person, which is not the Major Institutional Investor.

In reliance on the exemption from registration provided by Rule 15a-6 of the Exchange Act and interpretations thereof by the SEC in order to conduct certain business with Major Institutional Investors, Prabhudas Lilladher Pvt. Ltd. has entered into an agreement with a U.S. registered broker-dealer, Marco Polo Securities Inc. ("Marco Polo").

Transactions in securities discussed in this research report should be effected through Marco Polo or another U.S. registered broker dealer.

Prabhudas Lilladher Pvt. Ltd.

3rd Floor, Sadhana House, 570, P. B. Marg, Worli, Mumbai-400 018, India | Tel: (91 22) 6632 2222 Fax: (91 22) 6632 2209 www.plindia.com