

# **Navin Fluorine International**

CMP: INR4,552 TP: INR4,815 (+6%) Neutral

# Estimate change TP change Rating change

# SAVE THE DATE 21st Aug - 25th Aug, 2023 Witness the unfolding of our grandeur event, as the curtain rises! INDIA RISING NATION ON THE MOVE

Bloomberg	NFIL IN
Equity Shares (m)	50
M.Cap.(INRb)/(USDb)	225.7 / 2.7
52-Week Range (INR)	4922 / 3766
1, 6, 12 Rel. Per (%)	-2/2/-9
12M Avg Val (INR M)	738

#### Financials & Valuations (INR b)

Y/E March	FY23	FY24E	FY25E
Sales	20.8	28.0	35.8
EBITDA	5.5	7.6	9.9
PAT	3.8	5.0	6.8
EPS (INR)	75.7	100.0	137.6
EPS Gr. (%)	42.6	32.1	37.6
BV/Sh.(INR)	441.0	525.1	641.0
Ratios			
Net D:E	0.4	0.3	0.3
RoE (%)	18.6	20.7	23.6
RoCE (%)	15.7	16.1	18.4
Payout (%)	15.8	15.8	15.8
Valuations			
P/E (x)	60.0	45.4	33.0
P/BV (x)	10.3	8.6	7.1
EV/EBITDA (x)	42.4	30.8	23.6
Div. Yield (%)	0.3	0.3	0.5
FCF Yield (%)	-3.6	0.2	0.8
-			

#### Shareholding pattern (%)

	0 1	1	
As On	Jun-23	Mar-23	Jun-22
Promoter	28.8	28.8	29.7
DII	26.0	24.8	20.8
FII	18.5	19.6	21.4
Others	26.7	26.8	28.1

FII Includes depository receipts

# Revenue visibility remains strong despite short-term headwinds

- Navin Fluorine (NFIL) reported 44%/56% lower-than-estimated EBITDA/PAT due to subdued performances in the HPP/CDMO businesses. Gross margin stood at 58.7%, while EBITDA margin dipped 570bp QoQ to 23.3%. The company expects margin to rebound in the coming quarters with higher utilization at its various plants.
- High Performance Products (HPP) business (down 42% QoQ) disappointed in 1QFY24 due to multiple shutdowns at the new HFO plant as well as a planned shutdown at the AHF plant. Demand for R22 also remained muted both in the domestic as well as in the international markets. The Specialty Chemicals business jumped 11% QoQ with order book remaining strong. This continues to strengthen the long-term growth visibility of the segment.
- Management highlighted that the miss on volumes in HFO in 1QFY24 would be recovered in the next couple of quarters with the full-year offtake by Honeywell remaining unchanged. HFO plant would run at optimal capacity now. Discussion on debottlenecking is also going on with Honeywell for which a small capex would be undertaken (capacity to be expanded by 25%) and would be completed by CY24E.
- The company has also identified various late stage opportunities on which it is working right now. NFIL has also signed a contract with Fermion (non-exclusive) for three patented stage molecules, commercial supply of which would start in CY25. Management has given a revenue visibility of USD40m over a period of three years of the contract. These would be supplied from the CGMP-4 facility, engineering work of which is on the verge of completion.
- estimates by 7%/11%/11% for FY24 while keeping our FY25 estimates broadly unchanged. Subsequently, we expect a revenue/EBITDA/PAT CAGR of 35%/41%/37% over FY23-25. The stock is trading at 33x FY25E EPS of INR138 and 24x FY25E EV/EBITDA. We value the company at 35x FY25E EPS to arrive at our TP of INR4,815. We maintain our Neutral rating owing to limited upside.

#### Overall miss on estimates; sharp sequential contraction in EBITDAM

- NFIL reported revenue of INR4.9b (+24% YoY, -30% QoQ) in 1QFY24, below consensus by 16%.
- EBITDA margin came in at 23.3% (-170bp YoY, -570bp QoQ), with EBITDA at INR1.1b (est. of INR2.1b), **below consensus by 30%.**
- ➤ NFIL granted ESOPs to the senior leadership amounting to ~INR54m
- PAT stood at INR615m (est. of INR1.4b; -17% YoY, -55% QoQ), translating into an EPS of INR12.4 (v/s INR27.6 in 4QFY23), **below consensus by 42%.**

Aman Chowdhary – Research Analyst (Aman.Chowdhary@MotilalOswal.com)

Rohit Thorat – Research Analyst (Rohit.Thorat@MotilalOswal.com)

Investors are advised to refer through important disclosures made at the last page of the Research Report.

- The new HFO plant had a breakdown causing a temporary shutdown from 19<sup>th</sup> Jun'23 to 18<sup>th</sup> Jul'23.
- > The plant has restarted since the breakdown.
- Depreciation increased due to capitalization and associated financing.
- Higher utilization in the coming quarters would lead to higher margin, as per the management.

#### Segmental highlights

- The HPP business posted revenue of INR1.7b (+11% YoY) in 1QFY24
- > Shutdowns in the new HPP plant in Apr'23 and Jun'23 hit performance. AHF plant was also shut down.
- Ref gas (R22) sales were also hit because of weak summer demand
- R32 plant is being stabilized and sales would start from 2QFY24
- The **Specialty Chemicals business** posted revenue of INR2.3b (+31% YoY), the highest ever quarterly sales in 1QFY24.
- > Order book remained strong in the segment during the quarter
- > A new capability capex in Surat of INR300m has been approved by the Board
- The **CDMO business** reported revenue of INR930m (+33% YoY)
- Supply agreement has been signed with Fermion for a period of three years starting CY25
- Several late stage opportunities have been identified and being developed currently
- CGMP4 engineering work is in the final stages of completion.
- The revenue mix in 1QFY24 stood at: 34% for HPP business (42% in 4QFY23), 19% for CDMO business (29%) and 47% for Specialty Chemicals business (29%).
- Domestic sales formed 33% of total revenue in 1QFY24 while exports formed 67% (vs. 78% in 4QFY23). Domestic sales from the HPP business stood at 49% and stood at 35% from the Specialty Chemicals business. Exports contributed 100% to the revenue from the CDMO business

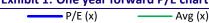
#### **Valuation and View**

- The HPP and the Specialty Chemicals segments will drive robust growth (at 36-37% CAGR over FY23-25), with increasing use of fluorine in the Pharma and Agro space, battery chemicals and performance materials. The company has already identified various opportunities in the above mentioned spaces.
- Management expects peak revenue for: a) the Agrochemical Intermediate to be achieved in FY24, and b) the MPP plant to be achieved in FY25. Two new molecules at the MPP plant are expected to be commissioned in CY23.
- The stock is trading at 33x FY25E EPS of INR138, with an expected improvement in RoE to 20-23%, despite a huge capex (INR8b) over the next two years. We value the company at 35x FY25E EPS to arrive at our TP of INR4,815. **We** maintain our Neutral rating on the stock owing to limited upside.

#### **Consolidated - Quarterly Snapshot**

Y/E March		FY2	23			FY2	24		FY23	FY24E	FY23	Var.
	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE			4QE	(%)
Gross Sales	3,975	4,192	5,636	6,971	4,912	6,797	7,708	8,528	20,774	27,953	7,274	-32%
YoY Change (%)	21.7	23.7	48.7	70.5	23.6	62.1	36.8	22.3	42.9	34.6	83.0	
Gross Margin (%)	54.1%	56.2%	56.3%	59.3%	58.7%	57.6%	57.2%	56.9%	56.9%	57.5%	58.5%	0.2%
EBITDA	991	938	1,556	2,018	1,142	1,821	2,166	2,472	5,503	7,609	2,053	-44%
Margin (%)	24.9	22.4	27.6	28.9	23.3	26.8	28.1	29.0	26.5	27.2	28.2	-5.0
Depreciation	124	177	250	76	213	207	201	189	626	810	182	
Interest	3	40	92	140	194	127	120	93	275	535	70	
Other Income	109	109	99	40	83	89	91	94	357	358	81	
PBT before EO expense	974	831	1,313	1,842	818	1,577	1,935	2,284	4,959	6,623	1,882	-57%
PBT	974	831	1,313	1,842	818	1,577	1,935	2,284	4,959	6,623	1,882	-57%
Tax	229	252	247	478	202	398	488	579	1,207	1,667	475	
Rate (%)	23.5	30.4	18.8	26.0	24.8	25.2	25.2	25.3	24.3	25.2	25.2	
Reported PAT	745	578	1,066	1,364	615	1,179	1,448	1,705	3,752	4,956	1,407	-56%
Adj. PAT	745	578	1,066	1,364	615	1,179	1,448	1,705	3,752	4,956	1,407	-56%
YoY Change (%)	33.2	-8.6	54.9	81.5	-17.4	103.9	35.9	25.0	42.6	32.1	89.0	
Margin (%)	18.7	13.8	18.9	19.6	12.5	17.3	18.8	20.0	18.1	17.7	19.3	-6.8
Segmental Revenue (INR m)												
High Performance Products (HPP)	1,520	2,110	2,530	2,890	1,690	3,086	3,549	4,019	9,050	12,344	2,932	-42%
Specialty Chemicals	1,760	1,770	1,860	2,040	2,300	2,510	2,804	3,067	7,430	10,681	2,537	-9%
CDMO	700	390	1,250	2,030	930	1,201	1,355	1,442	4,370	4,928	1,806	-49%

Exhibit 1: One year forward P/E chart



+1SD

41.6

24.2

Jul-18

Apr-17

Min (x)

Oct-14

80.0

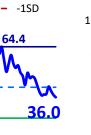
60.0

40.0

20.0

0.0

Jul-13



Max (x)

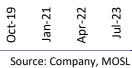
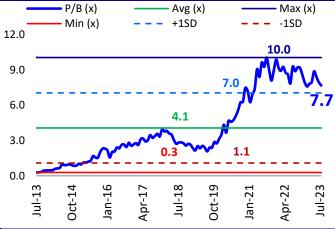


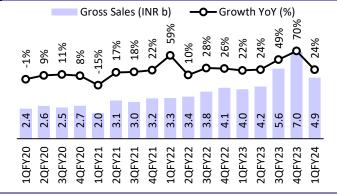
Exhibit 2: One year forward P/B chart



Source: Company, MOSL

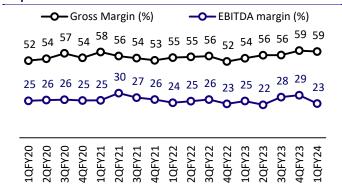
#### Story in charts - 1QFY24

Exhibit 3: Sales rose 24% YoY but declined 30% QoQ, due to weak performance in HPP segment



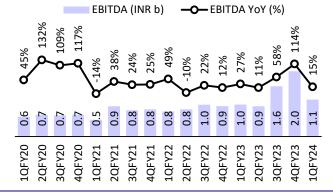
Source: Company, MOFSL

Exhibit 4: EBITDAM and gross margin both declined on a sequential basis



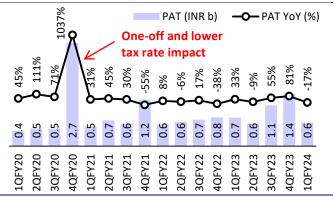
Source: Company, MOFSL

Exhibit 5: EBITDA grew 15% YoY, with EBITDA margin at 23.3% in 1QFY24



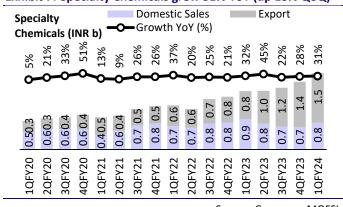
Source: Company, MOFSL

Exhibit 6: PAT down 17% YoY and 55% QoQ, margin at 12.5% in 1QFY24



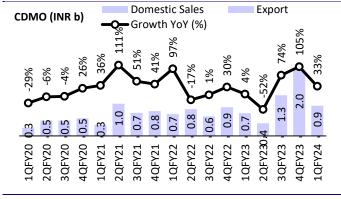
Source: Company, MOFSL

Exhibit 7: Specialty Chemicals grew 31% YoY (up 13% QoQ)



Source: Company, MOFSL

Exhibit 8: CDMO grew 33% YoY but contracted 54% QoQ



Source: Company, MOFSL

Exhibit 9: HPP grew 11% YoY (down 42% QoQ)

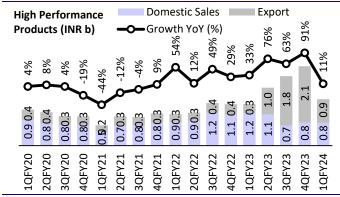
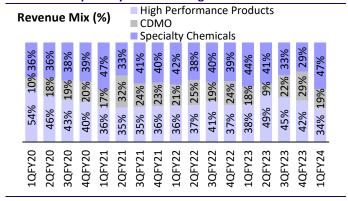


Exhibit 10: Revenue mix for the HPP/CDMO segments declined notably to 34/19%, while the same improved to 47% for the Specialty Chemicals segment



Source: Company, MOFSL

#### Highlights from the conference call

- All businesses continued to perform well except for some product-specific headwinds
- Business to run on normalized basis from 2QFY24
- Higher depreciation and interest charges because of new capacities in NFASL
- New CEO to be appointed for CDMO business in the next few weeks
- > Have identified two internal candidates, no external candidate to be made CEO
- Most of NFIL's molecules do not have Chinese competitors; hence, dumping would not significantly impact the company

#### **Specialty Chemicals business**

Source: Company, MOFSL

- Higher ever sales for the quarter
- Two new plants in Dahej: one dedicated for agrochemical (running at full capacity) and the other one being MPP (not running at full capacity right now)
- All four molecules in the MPP have been supplied, three of them being approved while the last one is in the stage of approval
- A few molecules had some issues
- One large molecule is seeing headwinds, demand for which had come down to zero (being supplied from Surat-standalone business)
- Would start running at full capacity once again from 3QFY24 due to demand recovery
- Sales forecasts are changing on a monthly basis from the customers
- Primary growth coming from volumes and not because of pricing
- Molecules with higher margins are being commercialized now
- Current contribution is significantly from agrochemicals and performance materials and a smaller percentage from pharma
- It has not been working actively on any new pharma molecules (low-margin generic pharma molecules)
- Going forward, contribution from performance materials to increase while agrochem contribution to remain stable at current levels on an overall basis

6

#### **HPP**

- Overall growth was restrained because of shutdown
- AHF plant also had a planned shutdown in congruence with the HFO planned shutdown in Apr'23
- Purification section of the HFO had some issues because of which shutdown was effected in Jun'23
- Planned shutdown in 1QFY25E of the HFO plant
- R22 demand was muted with ref gas being hit both in the domestic market as well as exports
- > 1Q and 4Q tend to be the peak season, if these two quarters get missed out then it will be difficult to recover in 2Q and 3Q
- Demand uptick to be seen in 3Q
- > This is specific to R22 going into emulsive applications
- Volumes lost in 1Q would be covered up in next two quarters. No change in fullyear volume offtake by the company
- HFO plant to run at optimal capacity now
- Debottlenecking discussion with Honeywell to be completed by CY23-end and small capex to be undertaken that would be required to expand existing capacity
- Discussion also ongoing about the HFO and the other non-ref gas (advanced material business)

#### **CDMO**

- Various late stage opportunities identified in the business
- Three patented stage molecules in the CDMO business with Fermion (nonexclusive contract)
- Expected to create new growth opportunities for the company
- Revenue of ~USD40m in the three years of the contract
- One of the molecules is already commercialized
- Already supplied qualification batches and the first molecule has been approved to be supplied by end of 3QFY24 (smaller quantities)
- > This is a non-fluorinated molecule
- One of the other molecules would be in fluorination; however another molecule wouldn't be in fluorination chemistry
- > These would be supplied from CGMP-4
- No significant sales being seen from larger repeat businesses
- Would be required by them from start of CY24

#### **Capex updates**

- AHF project is progressing as planned
- Basic engineering technology signed
- Allows NFIL to cater to the increasing demand in pharma and agro and also battery chemicals in the EV space
- Agro specialty capex (INR5.4b) also progressing as planned and would be commissioned by Dec'23
- R32 plant stabilization in progress and sales to start from 2QFY24
- Capability capex:
- Revenue of INR450m on annualized basis from FY26
- Plant to be completed in the next 15-20 months

1 August 2023

### **Financial story in charts**

Exhibit 11: Expect ~35% revenue CAGR over FY23-25...

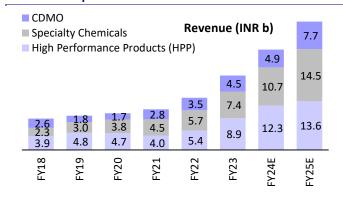


Exhibit 12: ...with Spec Chem CAGR at 37%

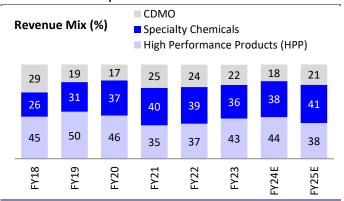


Exhibit 13: Exports were ~66% of total revenue in FY23...

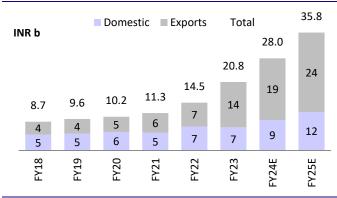


Exhibit 14: ...and to be around the same levels until FY25

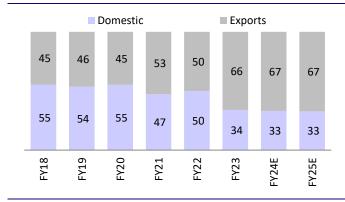


Exhibit 15: Expect ~41% EBITDA CAGR over FY23-25...

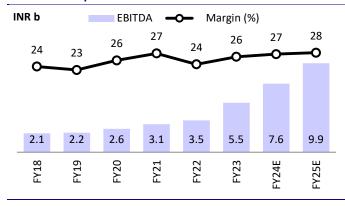


Exhibit 16: ...with a PAT CAGR of ~37% over the same period

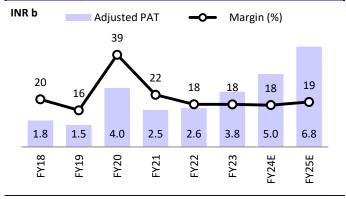


Exhibit 17: Capex for the next two years is INR8b...

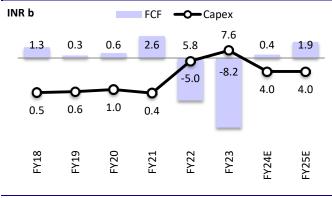
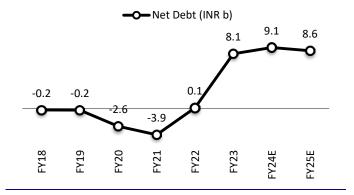


Exhibit 18: ... to be funded via internal accruals and debt



Source: Company, MOFSL

Source: Company, MOFSL

1 August 2023

MOTILAL OSWAL

## **Financials and valuations**

	_							
Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Total Income from Operations	8,861	9,551	10,223	11,331	14,534	20,774	27,953	35,771
Change (%)	20.3	7.8	7.0	10.8	28.3	42.9	34.6	28.0
Gross Margin (%)	56.6	52.3	54.5	54.9	54.2	56.9	57.5	58.1
EBITDA	2,107	2,181	2,607	3,108	3,548	5,503	7,609	9,881
Margin (%)	23.8	22.8	25.5	27.4	24.4	26.5	27.2	27.6
Depreciation	382	259	337	407	479	626	810	836
EBIT	1,725	1,922	2,270	2,702	3,069	4,877	6,799	9,045
Int. and Finance Charges	7	5	16	14	19	275	535	323
Other Income	906	348	313	745	392	357	358	388
PBT bef. EO Exp.	2,625	2,265	2,567	3,433	3,442	4,959	6,623	9,110
EO Items	0	0	0	662	0	0	0	0
PBT after EO Exp.	2,625	2,265	2,567	4,095	3,442	4,959	6,623	9,110
Total Tax	835	780	-1,431	1,103	812	1,207	1,667	2,293
Tax Rate (%)	31.8	34.5	-55.7	26.9	23.6	24.3	25.2	25.2
Reported PAT	1,790	1,485	3,998	2,992	2,631	3,752	4,956	6,817
Adjusted PAT	1,790	1,485	3,998	2,508	2,631	3,752	4,956	6,817
Change (%)	34.9	-17.0	169.3	-37.3	4.9	42.6	32.1	37.6
Margin (%)	20.2	15.5	39.1	22.1	18.1	18.1	17.7	19.1

Consolidated - Balance Sheet								(INR m)
Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Equity Share Capital	99	99	99	99	99	99	99	99
Total Reserves	9,601	10,493	13,790	16,402	18,343	21,750	25,922	31,660
Net Worth	9,700	10,592	13,889	16,501	18,442	21,850	26,021	31,759
Total Loans	0	0	0	0	1,000	8,487	9,335	8,868
Deferred Tax Liabilities	239	295	206	167	201	348	348	348
Capital Employed	9,939	10,887	14,096	16,668	19,644	30,684	35,704	40,975
Gross Block	3,232	3,511	4,643	4,937	5,714	17,283	21,283	25,283
Less: Accum. Deprn.	477	715	1,053	1,459	1,938	2,565	3,375	4,210
Net Fixed Assets	2,755	2,796	3,591	3,478	3,776	14,718	17,908	21,073
Capital WIP	201	393	389	365	7,421	2,786	2,786	2,786
Total Investments	5,219	5,267	3,387	4,503	1,181	438	438	438
Curr. Assets, Loans, and Adv.	3,817	4,224	7,042	10,320	11,477	17,351	20,768	24,605
Inventory	924	929	1,361	1,543	2,575	4,681	6,236	7,937
Account Receivables	1,471	1,675	2,093	2,759	3,577	5,615	7,556	9,669
Cash and Bank Balance	219	224	2,641	3,889	902	348	270	293
Cash	136	127	1,692	761	757	145	67	90
Bank Balance	83	97	890	3,128	201	203	203	203
Loans and Advances	1,203	1,397	947	2,128	4,423	6,706	6,706	6,706
Curr. Liability and Prov.	2,053	1,794	1,644	1,998	4,211	4,609	6,197	7,926
Account Payables	889	679	922	1,027	141	406	541	689
Other Current Liabilities	1,056	1,005	590	824	3,879	3,973	5,345	6,841
Provisions	108	110	131	147	191	231	310	397
Net Current Assets	1,764	2,431	5,398	8,322	7,266	12,741	14,571	16,679
Appl. of Funds	9,939	10,887	14,096	16,668	19,644	30,684	35,704	40,975

## **Financials and valuations**

V/E March	EV10	EV10	EV20	EV21	EV22	EV22	EV24E	EVALE
Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Basic (INR)	26.2	20.0	00.0	F0.7	F2.4	75.7	100.0	127.0
EPS	36.2	30.0	80.8	50.7	53.1	75.7	100.0	137.6
EPS Growth (%)	34.9	-17.0	169.3	-37.3	4.7	42.6	32.1	37.6
Cash EPS	43.9	35.2	87.6	58.9	62.8	88.4	116.4	154.4
BV/Share	196.0	214.1	280.7	333.5	372.2	441.0	525.1	641.0
DPS	7.0	7.8	11.0	11.0	11.0	12.0	15.8	21.8
Payout (%)	19.9	41.7	17.9	18.2	20.7	15.8	15.8	15.8
Valuation (x)								
P/E	125.5	151.3	56.2	89.6	85.5	60.0	45.4	33.0
Cash P/E	103.4	128.8	51.8	77.1	72.3	51.4	39.0	29.4
P/BV	23.2	21.2	16.2	13.6	12.2	10.3	8.6	7.1
EV/Sales	25.3	23.5	21.7	19.5	15.5	11.2	8.4	6.5
EV/EBITDA	106.5	102.9	85.1	71.0	63.4	42.4	30.8	23.6
Dividend Yield (%)	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.5
FCF per share	25.7	5.9	11.8	52.1	-101.1	-165.3	7.9	38.2
Return Ratios (%)								
RoE	20.0	14.6	32.7	16.5	15.1	18.6	20.7	23.6
RoCE	19.5	14.3	32.2	16.4	14.6	15.7	16.1	18.4
RoIC	25.8	27.1	55.7	25.3	26.0	19.8	17.2	19.4
Working Capital Ratios								
Fixed Asset Turnover (x)	2.6	3.4	3.2	3.2	4.0	2.2	1.7	1.8
Asset Turnover (x)	0.9	0.9	0.7	0.7	0.7	0.7	0.8	0.9
Inventory (Days)	38	35	49	50	65	82	81	81
Debtor (Days)	61	64	75	89	90	99	99	99
Creditor (Days)	37	26	33	33	4	7	7	7
Leverage Ratio (x)								
Current Ratio	1.9	2.4	4.3	5.2	2.7	3.8	3.4	3.1
Net Debt/Equity ratio	0.0	0.0	-0.2	-0.2	0.0	0.4	0.3	0.3
Consolidated - Cash Flow Statement								(INR m)
Y/E March	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
OP/(Loss) before Tax	2,625	2,265	2,567	4,095	3,442	4,959	6,623	9,110
Depreciation	382	259	337	407	479	626	810	836
Others	-694	-277	-210	-1,054	-289	184	535	323
Direct Taxes Paid	-496	-710	-456	-1,034	-781	-1,098	-1,667	-2,293
(Inc.)/Dec. in WC	-90	-637	-684	-305	-2,104	-5,307	-1,907	-2,293
CF from Operations	1,727	900	1,555	<b>2,958</b>	748	-5,507 - <b>636</b>	4,392	5,891
Capex	-457	-606	-972	-382	-5,758	-7,555	-4,000	-4,000
Free Cash Flow	1,270	294	582	2,576	-5,011	-8,191	392	1,891
Change in Investments	-1,338	190	1,706	-914	3,757	799	0	0
CF from Investments	-1,489	-315	766	-3,452	-1,724	-6,556	-4,000	-4,000
Inc./(Dec.) in Debt	0	0	0	0	1,020	7,442	849	-467
Interest Paid	-7	-5	-16	-14	-19	-275	-535	-323
Dividend Paid	-350	-611	-714	-394	-542	-543	-784	-1,079
CF from Fin. Activity	-326	-595	-756	-437	415	6,579	-470	-1,869
Inc./Dec. in Cash	-87	-9	1,565	-931	-561	-613	-78	23
Opening Balance	224	136	127	1,692	760	757	144	67
Closing Balance	136	127	1,692	760	757	144	67	90

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.

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 <a href="http://onlinereports.motifaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf">http://onlinereports.motifaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf</a>

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 <a href="www.nseindia.com">www.nseindia.com</a>, <a href="www.nseindia.com">www.bseindia.com</a>. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

#### Regional Disclosures (outside India)

This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL & its group companies to registration or licensing requirements within such jurisdictions.

#### For Hong Kong:

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

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 1934 act 1934) 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 Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Actions and Futures Actions and Future 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
- MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months 8
- MOFSL has not received any compensation or other benefits from third party in connection with the research report
- 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

11 1 August 2023

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:

Offevallee Neuressal 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.