

Data Patterns (India)

Estimate change	\longrightarrow
TP change	←→
Rating change	\longrightarrow

Bloomberg	DATAPATT IN
Equity Shares (m)	56
M.Cap.(INRb)/(USDb)	107.2 / 1.3
52-Week Range (INR)	2485 / 1179
1, 6, 12 Rel. Per (%)	0/-16/12
12M Avg Val (INR M)	437

Financials & Valuations (INR b)

Tillalicials & Valuatio	Thanelais a valuations (iiii s)										
Y/E Mar	FY24E	FY25E	FY26E								
Sales	5.7	7.4	9.7								
EBITDA	2.3	3.1	4.1								
Adj. PAT	1.9	2.4	3.3								
EBITDA Margin (%)	40.8	41.4	42.3								
Cons. Adj. EPS (INR)	33.1	43.5	58.1								
EPS Gr. (%)	49.4	31.5	33.5								
BV/Sh. (INR)	240.6	283.2	340.4								
Ratios											
Net D:E	-0.5	-0.5	-0.5								
RoE (%)	14.7	16.6	18.6								
RoCE (%)	15.3	17.2	19.1								
Valuations											
P/E (x)	58	44	33								
EV/EBITDA (x)	43	32	24								

Shareholding pattern (%)

As on	Dec-23	Sep-23	Dec-22
Promoter	42.4	42.4	45.8
DII	9.2	9.6	7.9
FII	6.7	7.2	2.3
Others	41.7	41.2	44.0

Note: FII includes depository receipts

CMP: INR1,915 TP: INR2,020 (+5%) Neutral

Sustaining strong topline growth

Earnings beat our estimates

- Data Patterns (DATAPATT) reported a strong revenue growth of 25% YoY in 3QFY24, fueled by a robust traction in Production revenue (up 32% YoY) and Development revenue (up 16% YoY). DATAPATT recorded strong operating performance (EBITDA margin up 100bp YoY), primarily due to an improved gross margin (up 130bp YoY), aided by the favorable business mix.
- We retain our FY25/FY26 EPS estimates. We reiterate our Neutral stance on the stock with a TP of INR2,020 (premised on35x FY26E EPS).

Gross margins expanded, led by favorable business mix

- Consol. revenue grew 25%/29% YoY/QoQ to INR1.4b (est. in line), aided by broad-based growth across product categories.
- EBITDA grew 28%/47% YoY/QoQ to INR600m (est. INR539m). EBITDA margins expanded 100bp/540bp YoY/QoQ to 43% (est. 38.6%), led by ~130bp YoY expansion in gross margin, because of the favorable business mix.
- Adj. PAT grew 53%/51% YoY/QoQ to INR510m (est. of INR374m).
- The order book stood at INR9.6b as of Dec'23 vs. INR10b/INR9.7b in Sep'23/Jun'23. This decline can be attributed to delays in few anticipated contracts by the company.
- For 9MFY24, Revenue/EBITDA/Adj. PAT grew 26%/31%/61% YoY to INR3.4b/INR1.3b/INR1.1b.

Highlights from the management commentary

- **Guidance**: The management maintained the revenue growth target of 20-25% for the next two years. It expects to maintain a sustainable high EBITDA margin of ~40%.
- Orders inflow stood at ~INR991m in 3QFY24 vs. ~INR1.6b in 3QFY23. The order flow has been slower due to delay in expected contracts from BEL and a few other customers. DATAPATT is working closely with the clients and expects orders worth ~INR6-8b over the next couple of quarters.
- Working capital: The company is targeting working capital days of ~240-270 days over the next two years. The decline in inventory days (led by normalization of supply chain) will result in improvement in working capital days.

Valuation and view

DATAPATT, a prominent player in the aerospace and defense electronics sector in India, is set to capture a larger share of pie (TAM of ~USD2b as of CY20; registering a 9% CAGR) on the back of its vast experience, strong core competencies, and robust executional capabilities.

Sumant Kumar - Research Analyst (Sumant.Kumar@MotilalOswal.com)

Research Analyst: Meet Jain (Meet.Jain@MotilalOswal.com) | Omkar Shintre (Omkar.Shintre@MotilalOswal.com)

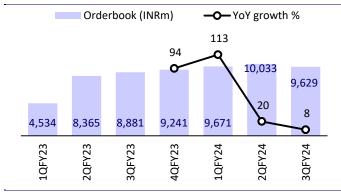
■ We estimate a 29%/34%/38% CAGR in revenue/EBITDA/Adjusted PAT over FY23-FY26, driven by robust order book growth (at ~39% CAGR over FY19-23) and improved margins.

We retain our FY25/FY26 EPS estimates. We reiterate our Neutral rating with a TP of INR2,020 (premised on35x FY26E EPS), owing to its higher working capital cycle and rich valuations.

Consolidated - Quarterly Earning Model												(INR m)
Y/E March	FY23				FY	24		FY23	FY24E	FY24E	Var	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE			3QE	%
Gross Sales	684	882	1,118	1,851	897	1,083	1,395	2,304	4,535	5,680	1,398	0
YoY Change (%)	NA	136.8	88.8	322.2	31.2	22.9	24.8	24.5	45.9	25.3	25.0	
Total Expenditure	471	580	648	1,117	619	676	795	1,275	2,816	3,364	858	
EBITDA	213	302	470	734	278	408	600	1,029	1,718	2,316	539	11
Margins (%)	31.1	34.2	42.1	39.6	31.0	37.6	43.0	44.7	37.9	40.8	38.6	
Depreciation	20	21	21	22	28	31	33	42	84	134	36	
Interest	16	12	21	28	17	23	23	35	77	98	28	
Other Income	17	19	19	38	116	108	113	45	92	383	25	
PBT before EO expense	194	287	446	721	349	463	657	997	1,649	2,466	500	
Extra-Ord expense	0	0	0	0	0	0	0	0	0	0	0	
PBT	194	287	446	721	349	463	657	997	1,649	2,466	500	
Tax	52	76	113	168	91	125	148	251	409	614	126	
Rate (%)	26.7	26.6	25.4	23.3	25.9	27.0	22.4	25.2	24.8	24.9	25.2	
Minority Interest & Profit/Loss of Asso. Cos.	0	0	0	0	0	0	0	0	0	0	0	
Reported PAT	142	211	333	554	258	338	510	746	1,240	1,852	374	
Adj PAT	142	211	333	554	258	338	510	746	1,240	1,852	374	36
YoY Change (%)	NA	104.4	158.5	517.9	81.4	60.5	53.0	34.8	32.2	49.4	12.3	
Margins (%)	20.8	23.9	29.8	29.9	28.8	31.2	36.5	32.4	27.3	32.6	26.8	

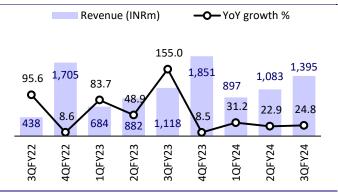
Key Exhibits

Exhibit 1: Consolidated order book trend



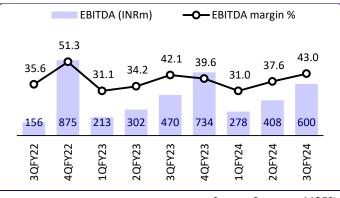
Source: Company, MOFSL

Exhibit 2: Consolidated revenue trend



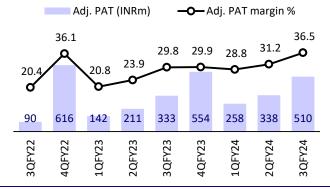
Source: Company, MOFSL

Exhibit 3: Consolidated EBITDA trend



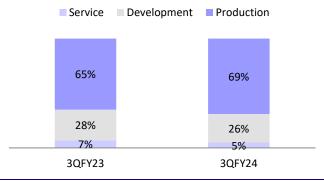
Source: Company, MOFSL

Exhibit 4: Consolidated Adj. PAT trend



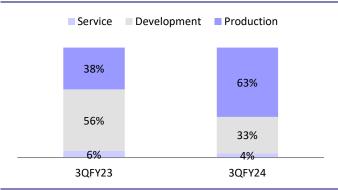
Source: Company, MOFSL

Exhibit 5: Segment revenue mix (3QFY24)



Source: Company, MOFSL

Exhibit 6: Segment orderbook mix (3QFY24)



Source: Company, MOFSL

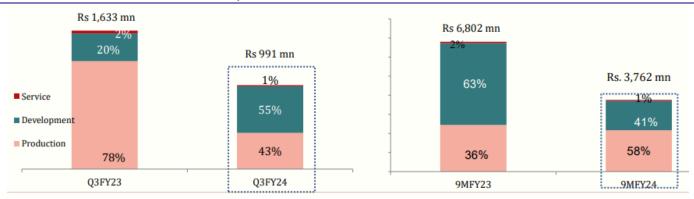
Exhibit 7: DATAPATT's product-wise and customer-wise revenue break-up

Product	Rs mn
Radar	287
EW	363
Avionics	306
FCS	240
ATE	67
AMC	66
Others	67
Total	1,395

Customer	Rs mn
MOD	458
HAL	249
DRDO	238
BrahMos	361
BEL	44
DOS	13
Export	13
Others	20
Total	1395

Source: MOFSL, Company

Exhibit 8: DATAPATT's order inflow breakup



Source: MOFSL, Company

Exhibit 9: Major orders received by DATAPATT in 3QFY24/9MFY24

Major order red	ceived in Q3FY2	<u>4</u>		Major order received in 9MFY24					
Product	Customer	Order Type	Value (Rs mn)	Product	Customer	Order Type	Value (Rs mn)		
Avionics	DRDO	Development	439	Avionics	HAL	Production	447		
Avionics	DoS	Development	101	Avionics	DRDO	Development	439		
Avionics	DRDO	Production	167	EW	DRDO	Development	362		
EW	BEL	Production	42	Radar	Private	Production	357		
EW	DRDO	Production	43	Radar	Export	Production	326		
Naval System	BEL	Production	40	Radar	BEL	Production	321		
ATE	BDL	Production	22	Radar	Export	Development	235		

Source: MOFSL, Company

Exhibit 10: DATAPATT's target over the next two years

- Targeting larger opportunities in Radar, EW, Communication Systems and Satellite business
- Expects to be a major participant for Rs20-30 bn worth of contracts in the next 3-4 years
- Efficient execution to promote operating leverage; Should drive strong EBITDA and PAT margins
- Exploring further opportunities in export market; Working in collaboration with domestic players

Strong Topline Growth:
25%+ CAGR

Sustainable High
Margins: ~40%

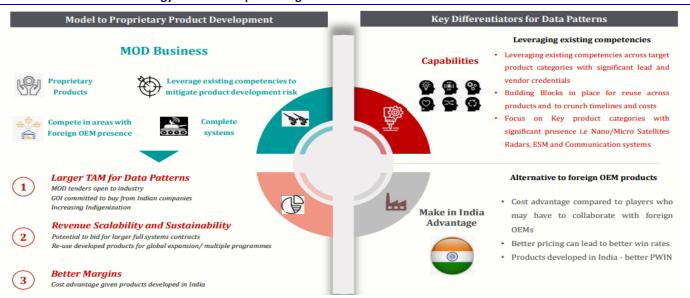
Maintain Net Debt Free
Status

Maintain Strong Order
Pipeline

High Returns to Shareholders: ROE and RoCE - 20%+

Source: MOFSL, Company

Exhibit 11: DATAPATT's strategy for the next phase of growth



Source: MOFSL, Company

Exhibit 12: DATAPATT's state-of-the-art manufacturing facility

~ 5.75 Acres

Of land in Chennai, SIPCOT area

~ 200,000 sq. ft

Aggregate of built up area of manufacturing facility

~4.53 acres

Land for proposed expansion



- ISS5555 - MIL-STD-461

- MIL-STD-810 including for Highly Accelerated Life Test / Highly accelerated stress screening.

Key features of manufacturing facility

- 100,000 class clean room
- Electronic assembly facility
- BGA repair work station with display
- Manual soldering certified to Space grade standards
- EMS assembly capacity of 600 boards per day
- Capability to handle complex boards with 22 layer, 6k components and 21k solder points
- Dedicated 70 work stations for testing modules and small systems
- Harness preparation of 2k points per day
- 20 Dedicated Mechanical assembly stations to assemble small and large systems

Our systems and processes are subject to periodic audit by customer such as

- Indian Government Space Organization
- Hindustan Aeronautics Limited (HAL)
- Other Government departments

Manufacturing facility at Chennai, India



Expansion



- · Complete Radar Integration
- · Electronic Warfare Vehicle Integration
- Additional Test Facility
- Augmented Environmental Test Infrastructure





· Augmented Design & Development Facility

· Additional Space For Design and Development Resources

Enhancement

- · Clean Room for Satellite Integration
- · Additional EMS Line
- · Multi Ton material handling



Multizone Reflow Oven



X ray inspection syste

Source: MOFSL, Company



Highlights from the management commentary

Orderbook

- The consolidated order book grew 8% YoY to INR9.6b (with production/ development/service contacts accounting for ~33%/63%/4% of order book)
- DATAPATT received order inflows of ~INR991m in 3QFY24. Around 43% of the orders were for production contracts, ~55% were for development contracts, and the rest 1% were for service contracts.
- The company received major orders from DRDO (INR439m/INR167m development/production orders) and DoS (INR101m development order) during 3QFY24.
- The order flows in 3QFY24 has been a little slower due to a delay in expected contracts from BEL and a few other organizations.
- DATAPATT is working with these clients for finalization of the contract. Accordingly, it is expecting orders worth INR6-8b over the next couple of quarters.
- The company expects the order book as on end of FY24 to be higher than that in FY23. It will get more clarity on order flows for FY25 by the next quarter.
- The company is participating in large value tenders with MoD under Make 1 and 2 categories. MoD tenders will start over the next few years.
- The company has established an in-house infrastructure tailored for processing BrahMos orders efficiently, enabling swift deliveries.

Guidance

- The management maintained the topline growth target of 20-25% for the next two years. It is expecting a lot of repeat orders going ahead.
- It expects to maintain a sustainable high EBITDA margin of ~40%.
- The decline in inventory days (led by normalization of supply chain) will result in improvement in working capital days. The company is targeting working capital days of ~240-270 over the next two years.

2 February 2024

 DATAPATT aims to sustain a robust order pipeline and uphold its status as a netdebt free entity. The company expects to achieve RoE and RoCE levels above 20%.

Exports

- Within the defense segment, DATAPATT is looking forward to replicate its India model within the export markets.
- Currently, it has contracts from the UK and the EU. The UK contracts are deliverable over ~2-3 years. It also has orders from S. Korea.
- Within the non-defense space, the company expects to manufacture critical systems and advanced technological products. Currently, it does not have any orders in the non-defense space and the company is presenting its product to the customers.

Strategy focus on key areas over next two years

- Capitalizing on promising opportunities within the radar electronic warfare and satellite markets
- Pursuing greater expansion plans within the export markets
- Actively pursuing various prospects in collaboration with domestic competitors
- Actively participating in contracts worth at least INR20b to INR 30b over the next three to four years.

Others

- Cash and cash equivalence stood at ~INR6.9b as of Dec'23
- The company is not focusing on the semiconductor manufacturing segment right now
- DATAPATT is actively considering the succession planning at various levels. It is also strengthening the HR team
- The company is building unique products from the proceeds of the QIP

Valuation and View

- DATAPATT, a prominent player in the aerospace and defense electronics sector in India, is set to capture a larger share of pie (TAM of ~USD2b as of CY20; registering a 9% CAGR) on the back of its vast experience, strong core competencies, and robust executional capabilities.
- We estimate a 29%/34%/38% CAGR in revenue/EBITDA/Adjusted PAT over FY23-FY26, driven by robust order book growth (at ~39% CAGR over FY19-23) and improved margins.
- We retain our FY25/FY26 EPS estimates. We reiterate our Neutral rating with a TP of INR2,020 (premised on35x FY26E EPS), owing to its higher working capital cycle and rich valuations.

Exhibit 13: Changes to our estimates

Earnings change		Old			New		Change			
(INR m)	FY24E	FY25E	FY26E	FY24E	FY25E	FY26E	FY24E	FY25E	FY26E	
Revenue	5,784	7,882	10,727	5,680	7,413	9,699	-2%	-6%	-10%	
EBITDA	2,318	3,184	4,387	2,316	3,069	4,103	0%	-4%	-6%	
Adj. PAT	1,765	2,419	3,381	1,852	2,436	3,253	5%	1%	-4%	

Financials and valuations

Consolidated - Income Statement Y/E March	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E	(INRm) FY26E
Total Income from Operations	1,311	1,561	2,240	3,109	4,535	5,680	7,413	9,699
Change (%)	NA NA	19.1	43.5	38.8	45.9	25.3	30.5	30.8
RM Cost	489	561	704	861	1,709	1,959	2,550	3,317
Employees Cost	367	411	472	604	795	1,043	1,320	1,668
Other Expenses	199	157	144	233	312	362	474	611
Total Expenditure	1,055	1,129	1,320	1,698	2,816	3,364	4,344	5,596
% of Sales	80.5	72.4	58.9	54.6	62.1	59.2	58.6	57.7
EBITDA	255	432	920	1,410	1,718	2,316	3,069	4,103
Margin (%)	19.5	27.6	41.1	45.4	37.9	40.8	41.4	42.3
Depreciation	59	55	56	66	84	134	150	171
EBIT	197	377	864	1,344	1,634	2,182	2,919	3,932
Int. and Finance Charges	108	133	145	110	77	98	108	119
Other Income	15	41	26	40	92	383	445	533
PBT bef. EO Exp.	104	284	745	1,274	1,649	2,466	3,256	4,347
EO Items	0	0	0	0	0	0	0	0
PBT after EO Exp.	104	284	745	1,274	1,649	2,466	3,256	4,347
Total Tax	27	74	190	334	409	614	820	1,094
Tax Rate (%)	25.6	26.0	25.4	26.2	24.8	24.9	25.2	25.2
Minority Interest	0	0	0	0	0	0	0	0
Reported PAT	77	211	556	940	1,240	1,852	2,436	3,253
Adjusted PAT	77	211	556	940	1,240	1,852	2,436	3,253
Change (%)	NA	173.4	163.9	69.1	31.9	49.4	31.5	33.5
Margin (%)	5.9	13.5	24.8	30.2	27.3	32.6	32.9	33.5
Consolidated - Balance Sheet								(INRm)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E	FY26E
Equity Share Capital	17	17	17	104	112	112	112	112

Consolidated - Balance Sheet								(INRm)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E	FY26E
Equity Share Capital	17	17	17	104	112	112	112	112
Preference Capital	0	0	0	0	0	0	0	0
Total Reserves	1,312	1,518	2,062	5,641	11,559	13,361	15,747	18,949
Net Worth	1,329	1,535	2,079	5,745	11,671	13,473	15,859	19,061
Minority Interest	0	0	0	0	0	0	0	0
Total Loans	601	606	372	92	7	7	7	7
Deferred Tax Liabilities	9	8	9	-8	0	0	0	0
Capital Employed	1,940	2,148	2,460	5,830	11,678	13,480	15,866	19,068
Gross Block	423	447	425	634	1,176	1,287	1,469	1,665
Less: Accum. Deprn.	59	113	93	159	243	378	528	698
Net Fixed Assets	365	334	332	475	933	909	941	967
Goodwill on Consolidation	0	0	0	0	0	0	0	0
Capital WIP	0	0	0	173	14	103	121	124
Total Investments	0	0	0	0	557	557	557	557
Current Investments	0	0	0	0	557	557	557	557
Curr. Assets, Loans&Adv.	2,410	2,620	2,954	6,411	12,847	14,834	17,690	21,919
Inventory	867	794	737	1,198	1,930	2,094	2,480	2,999
Account Receivables	1,029	1,156	1,559	1,983	3,825	4,357	5,078	6,244
Cash and Bank Balance	3	15	88	1,771	5,445	6,395	7,537	9,281
Loans and Advances	511	655	569	1,460	1,647	1,988	2,595	3,395
Curr. Liability & Prov.	835	805	826	1,230	2,671	2,923	3,442	4,499
Account Payables	159	173	120	416	431	483	629	818
Other Current Liabilities	606	506	560	570	2,107	2,272	2,595	3,395
Provisions	71	126	146	244	134	168	219	286
Net Current Assets	1,575	1,815	2,128	5,182	10,175	11,911	14,247	17,420
Misc Expenditure	0	0	0	0	0	0	0	0
Appl. of Funds	1,940	2,148	2,460	5,830	11,678	13,480	15,866	19,068

Financials and valuations

Ratios								
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E	FY26E
Basic (INR)								
EPS	9.1	24.8	65.4	18.1	22.1	33.1	43.5	58.1
Cash EPS	16.0	31.2	71.9	19.4	23.6	35.5	46.2	61.1
BV/Share	156.3	180.6	244.6	110.7	208.4	240.6	283.2	340.4
DPS	0.0	0.0	0.0	0.0	0.7	0.9	0.9	0.9
Payout (%)	0.0	0.0	0.0	0.0	3.2	2.7	2.1	1.5
Valuation (x)								
P/E	211.2	77.3	29.3	105.7	86.4	57.8	44.0	32.9
Cash P/E	119.9	61.3	26.6	98.7	80.9	53.9	41.4	31.3
P/BV	12.2	10.6	7.8	17.3	9.2	8.0	6.8	5.6
EV/Sales	12.9	10.8	7.4	31.4	22.3	17.6	13.4	10.0
EV/EBITDA	66.0	39.0	18.0	69.2	58.9	43.3	32.3	23.7
Dividend Yield (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FCF per share	-6.5	14.4	45.2	2.3	-9.9	12.8	15.3	24.6
Return Ratios (%)	0.0				3.3		20.0	
RoE	11.6	14.7	30.7	24.0	14.2	14.7	16.6	18.6
RoCE	16.3	15.2	28.9	24.6	14.2	15.3	17.2	19.1
RoIC	15.1	13.7	28.6	31.7	25.7	27.1	31.0	35.1
Working Capital Ratios	13.1	13.7	28.0	31.7	23.7	27.1	31.0	33.1
	2.1	2.5	F 2	4.0	2.0	4.4	г о	Г.О.
Fixed Asset Turnover (x)	3.1	3.5	5.3	4.9	3.9	4.4	5.0	5.8
Asset Turnover (x)	0.7	0.7	0.9	0.5	0.4	0.4	0.5	0.5
Inventory (Days)	647	517	382	508	412	390	355	330
Debtor (Days)	287	270	254	233	308	280	250	235
Creditor (Days)	118	112	62	176	92	90	90	90
Leverage Ratio (x)								
Current Ratio	2.9	3.3	3.6	5.2	4.8	5.1	5.1	4.9
Interest Cover Ratio	1.8	2.8	6.0	12.2	21.2	22.3	27.1	33.2
Net Debt/Equity	0.5	0.4	0.1	-0.3	-0.5	-0.5	-0.5	-0.5
Consolidated - Cash Flow Statem	nent							(INRm)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E	FY26E
OP/(Loss) before Tax	104	284	745	1,274	1,649	2,466	3,256	4,347
Depreciation	59	55	56	66	84	134	150	171
Interest & Finance Charges	93	108	123	70	-15	-285	-337	-415
Direct Taxes Paid	-11	-28	-190	-284	-409	-614	-820	-1,094
(Inc)/Dec in WC	-289	-283	-299	-624	-1,482	-786	-1,194	-1,429
CF from Operations	-45	136	435	503	-173	916	1,055	1,580
Others	0	-2	-1	0	0	0	0	0
CF from Operating incl EO	-45	134	434	503	-173	916	1,055	1,580
(Inc)/Dec in FA	-10	-12	-50	-382	-383	-200	-200	-200
Free Cash Flow	-55	123	384	121	-555	716	855	
(Pur)/Sale of Investments	0	0	0	0	0	0	0	1,380
Others	15	26	137	-796	-1	383	445	533
CF from Investments	4	14	88	-1,178	-384	183	245	333
Issue of Shares	0	0	0	3,000	0	0	0	0
Inc/(Dec) in Debt	27	-132	-300	-283	-85	0	0	0
Interest Paid	0	0	-145	-89	-77	-98	-108	-119
Dividend Paid	-4	-4	-3	-111	-39	-50	-50	-50
Others	0	0	0	-159	4,432	0	0	0
CF from Fin. Activity	23	-136	-449	2,359	4,231	-148	-158	-169
Inc/Dec of Cash	-18	12	73	1,683	3,675	950	1,142	1,744
Opening Balance	21	3	15	88	1,771	5,445	6,395	7,537
Closing Balance	3	15	88	1,771	5,445	6,395	7,537	9,281

Investment in securities market are subject to market risks. Read all the related documents carefully before investing

NOTES

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

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

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

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Depository participant services & distribution of various financial products. MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities Motilal Oswal Financial Services Limited available are http://onlinereports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf

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

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

A graph of daily closing prices of securities is available at www.nseindia.com, www.bseindia.com. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

Regional Disclosures (outside India)

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

For Hong Kong:

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

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

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

For Singapore

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

Specific Disclosures

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

2 February 2024 11

The associates of MOFSL may have:

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

The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report

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

Analyst Certification

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

Terms & Conditions:

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

Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. This report is not directled 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:

One various real about of the			
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.