

23 September 2021

Mphasis

Rating: Buy

Target Price: Rs.3,740

Share Price: Rs.3,247

Blink to bolster Mphasis' experience competencies: retaining a Buy

Mphasis acquired Seattle-based Blink UX for \$94m plus retention-payouts over the next two years. Founded in 2000, Blink is into customer research, user design and customer experience, essentially strengthening Mphasis' value proposition in engineering/product design and in customer-facing industries such as BFSI. It brings a reputed set of clients (leaders across sectors) with whom it shares long-tenured relations. Margins take a hit over the next two years but expect stabilisation thereafter. No change in overall margin guidance band despite the acquisition. We maintain a Buy.

Blink provides access to marquee clients and design capabilities. Blink brings customer-facing design capabilities to Mphasis, augmenting latter's focus on building a greater presence in the Hi-Tech vertical. Its capabilities are recognized by Gartner/Forrester and will help Mphasis in other consumer-facing industries as well. It immediately gives Mphasis access to 65 clients (with limited overlap to its existing accounts) which include Microsoft, Amazon, Facebook, Apple, Google, Nike, Mastercard and Starbucks among others. The long 10-year tenure with clients reflects high repeat business.

Blink is not margin dilutive, adj. for retention payouts. Blink is expected to clock \$33m-35m revenues in CY21 (a 42% CAGR over FY17-FY20), including some acquisitions. It delivers all its services onsite and still has better gross margins than Mphasis. At the EBITDA level, it has margins similar to Mphasis' onsite business. However, Mphasis' EBIT margin is expected to take a ~100bp hit in the next two years (transitory!) as retention-payouts (for two years) and amortization (of intangibles over five years) take effect. Overall, Mphasis is keeping the guidance margin band unchanged, as growth and synergies may offset some of these costs over medium term.

Maintaining a Buy. The acquisition is consistent with both Mphasis' strategy and size (Blink is <3% of revenue, profitable). Revised estimates reflect higher D&A, lower other income, and retention payouts. In exchange, new clients and new services open up for Mphasis, offering longer growth potential. Reflecting this, we raise our target to Rs3,740, at 45x FY23 (from 35x earlier).

Key financials (YE Mar)	FY19	FY20	FY21	FY22e	FY23e
Sales (Rs m)	78,194	88,239	96,920	112,653	128,298
Net profit (Rs m)	10,734	11,850	12,166	13,790	15,505
EPS (Rs)	56.1	63.4	65.1	73.7	82.9
P/E (x)	57.8	51.1	49.8	44.0	39.1
EV / EBITDA (x)	42.2	36.6	33.6	30.1	26.2
P/BV (x)	11.8	10.6	9.5	8.8	8.2
RoE (%)	20.0	21.4	19.7	20.4	21.3
RoCE (%)	17.1	16.6	15.0	15.5	17.2
Dividend yield (%)	0.8	1.1	2.0	1.5	1.7
Net debt / equity (x)	-0.3	-0.3	-0.4	-0.3	-0.3

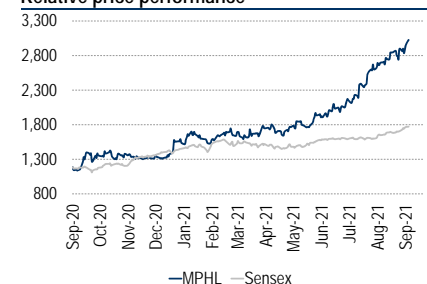
Source: Company, Anand Rath Research

Key data	MPHL IN / MBFL BO
52-week high / low	Rs.3303 / 1233
Sensex / Nifty	58927 / 17547
3-m average volume	\$31.2m
Market cap	Rs.609bn / \$8237.9m
Shares outstanding	187m

Shareholding pattern (%)	Jun'21	Mar'21	Dec'20
Promoters	56.0	56.0	56.1
- of which, Pledged	-	-	-
Free float	44.0	44.0	43.9
- Foreign institutions	20.8	21.8	22.8
- Domestic institutions	18.5	17.2	16.0
- Public	4.8	5.0	5.2

Estimates revision (%)	FY22e	FY23e
Sales (\$)	1.5	3.6
EBIT	(3.4)	(4.0)
PAT	(4.6)	(7.3)

Relative price performance



Source: Bloomberg

Mohit Jain
Research Analyst

Anand Rath Share and Stock Brokers Limited (hereinafter "ARSSBL") is a full-service brokerage and equities-research firm and the views expressed therein are solely of ARSSBL and not of the companies which have been covered in the Research Report. This report is intended for the sole use of the Recipient. Disclosures and analyst certifications are present in the Appendix.

Quick Glance – Financials and Valuations

Fig 1 – Income statement (Rs m)

Year-end: Mar	FY19	FY20	FY21	FY22e	FY23e
Revenues (\$ m)	1,118	1,240	1,309	1,528	1,741
<i>Growth (%)</i>	<i>13</i>	<i>11</i>	<i>6</i>	<i>17</i>	<i>14</i>
Net revenues	78,194	88,239	96,920	112,653	128,298
Employee & direct costs	57,840	65,093	71,244	84,135	96,295
Gross profit	20,354	23,146	25,676	28,518	32,003
<i>Gross margins %</i>	<i>26.03</i>	<i>26.23</i>	<i>26.49</i>	<i>25.31</i>	<i>24.94</i>
SG&A	6,231	6,838	7,951	8,703	9,228
EBITDA	14,123	16,308	17,725	19,815	22,775
<i>EBITDA margins (%)</i>	<i>18.1</i>	<i>18.5</i>	<i>18.3</i>	<i>17.6</i>	<i>17.8</i>
- Depreciation	759	2,316	2,418	2,808	3,120
Other income	864	1,977	1,632	2,218	1,459
Interest expenses	155	813	634	628	440
PBT	14,073	15,156	16,305	18,597	20,674
<i>Effective tax rate (%)</i>	<i>24</i>	<i>22</i>	<i>25</i>	<i>26</i>	<i>25</i>
+ Associates / (Minorities)	-	-	-	-	-
Net income	10,734	11,850	12,166	13,790	15,505
WANS	191	187	187	187	187
FDEPS (Rs / sh)	56.1	63.4	65.1	73.7	82.9

Fig 3 – Cash-flow statement (Rs m)

Year-end: Mar	FY19	FY20	FY21	FY22e	FY23e
PBT	14,073	15,156	16,305	18,597	20,674
+ Non-cash items	272	1,592	2,142	1,654	2,101
Oper. prof. before WC	14,345	16,748	18,447	20,251	22,775
- Incr. / (decr.) in WC	1,421	-422	453	2,321	3,098
Others incl. taxes	-3,427	-3,960	-3,448	-4,558	-5,146
Operating cash-flow	9,497	13,210	14,545	13,373	14,530
- Capex (tang. + intang.)	849	1,261	1,262	1,466	1,670
Free cash-flow	8,648	11,949	13,284	11,906	12,860
Acquisitions	-1,696	-	-805	-6,928	-
- Div.(incl. buyback & taxes)	14,604	6,065	6,527	8,979	10,326
+ Equity raised	104	151	268	-	-
+ Debt raised	1,246	-224	-409	-513	-462
- Fin investments	-5,099	-2,440	6,358	-3,692	-2,954
- Misc. (CFI + CFF)	-552	3,410	87	-1,154	-1,019
Net cash-flow	-651	4,841	-635	332	6,045

Source: Company, Anand Rathi Research

Fig 5 – Price movement



Source: Bloomberg

Fig 2 – Balance sheet (Rs m)

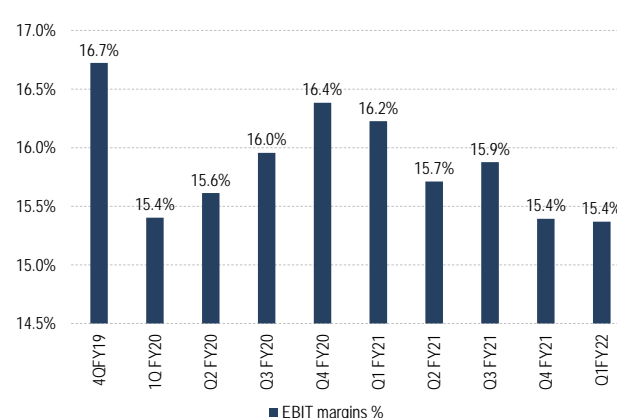
Year-end: Mar	FY19	FY20	FY21	FY22e	FY23e
Share capital	1,862	1,865	1,870	1,870	1,870
Net worth	52,498	58,296	65,267	70,079	75,258
Debt	5,426	5,713	5,135	4,621	4,159
Minority interest	-	-	-	-	-
DTL / (Assets)	-5,718	-6,646	-6,172	-6,172	-6,172
Capital employed	52,206	57,363	64,230	68,528	73,246
Net tangible assets	1,202	7,936	7,795	7,015	6,189
Net intangible assets	924	887	1,074	7,441	6,817
Goodwill	19,585	21,405	21,326	21,326	21,326
CWIP (tang. & intang.)	16	74	31	31	31
Investments (strategic)	-	-	-	-	-
Investments (financial)	13,292	13,257	18,460	14,768	11,815
Current assets (excl. cash)	26,231	25,679	27,923	30,931	34,893
Cash	6,416	11,257	10,622	10,955	17,000
Current liabilities	15,460	23,132	23,003	23,939	24,825
Working capital	10,771	2,547	4,921	6,993	10,069
Capital deployed	52,206	57,363	64,230	68,528	73,246
Contingent liabilities	18,296	17,144	-	-	-

Fig 4 – Ratio analysis

Year-end: Mar	FY19	FY20	FY21	FY22e	FY23e
P/E (x)	57.8	51.1	49.8	44.0	39.1
EV / EBITDA (x)	42.2	36.6	33.6	30.1	26.2
EV / Sales (x)	7.6	6.7	6.0	5.2	4.5
P/B (x)	11.8	10.6	9.5	8.8	8.2
RoE (%)	20.0	21.4	19.7	20.4	21.3
RoCE (%) - after tax	17.1	16.6	15.0	15.5	17.2
RoIC (%) - after tax	27.4	24.9	23.2	23.5	25.2
DPS (Rs / sh)	27.0	35.0	65.0	48.0	55.2
Dividend yield (%)	0.8	1.1	2.0	1.5	1.7
Dividend payout (%) - incl. DDT	148.5	66.3	119.8	65.1	66.6
Net debt / equity (x)	-0.3	-0.3	-0.4	-0.3	-0.3
Receivables (days)	86	73	70	69	69
Inventory (days)	-	-	-	-	-
Payables (days)	45	34	27	27	27
CFO : PAT %	88.5	111.5	119.6	97.0	93.7

Source: Company, Anand Rathi Research

Fig 6 – EBIT margins



Source: Company, Anand Rathi Research

Blink Interactive adds capabilities

About Blink Interactive

Blink offers market research, prototype and design services, which can be utilized by its clients looking to introduce new products. These services are particularly valuable for consumer-facing businesses.

Examples of assignments include:

- 1) Increase in customer satisfaction ratings or volumes by designing better user interfaces.
- 2) Designing an interface which would still be familiar to the older generation but would also feature all the new things, making it quite a modern interface.
- 3) Designing an interface which is unique to each user/role and is more aligned to his/her responsibilities rather than the traditional way of providing the same interface to all staff.

From a growth perspective, Blink regularly features in the top-5,000 fastest-growing private companies.

Has won recognitions (San Francisco Design Week, Gartner in Design Systems 2020) for its design capabilities.

Blink has ~130 employees and is likely to generate \$35m revenue (at the top end) for FY22/CY21. This translates to revenue per employee of \$270,000, ~5.5x that of Mphasis. Blink generates all its revenues from the US and delivers its services from onsite locations.

Impressive clientele

Blink designs interfaces; hence, assignment sizes are not comparable to IT. In CY20, it had 65 clients; assuming that the number of clients would have been stable in CY21, it is aiming at generating \$36m revenue, translating to \$0.5m average revenue per client. It has more than 10-year relations with many clients:

- 1) Amazon, 13 years +
- 2) Microsoft, 18 years +
- 3) Starbucks, 11 years +

So, the repeat business is high and, given its rich clientele, Mphasis now has an opportunity to offer more of its services to these new sets of clients. The overlap in clients is limited to a few in BFSI and Hi-Tech. Blink, on the other hand, has clients across industries such as aerospace, apparel, retail CPG, education, entertainment, government, healthcare, industrials, music, publishing, QSR, e-commerce, sports, telecoms and travel, some of which may offer fresh growth opportunities for Mphasis.

Financials

Mphasis has bought Blink for \$94m, a large part of which is payable immediately. This values Blink at 2.7x-2.8x CY21 sales.

Besides, there are retention pay-outs which will be routed through the P&L over the next two years. Mphasis expects the payouts to be in the range of ~50bps of EBIT margins. In totality, Blink is estimated to be valued at ~3x

CY21 sales, which appears reasonable given its growth potential and client list.

Blink is a highly onsite-centric business from a delivery perspective; despite that, it enjoys better gross margins than Mphasis' onsite business. Currently, Blink also incurs higher SG&A to fuel growth but its EBITDA margins appear to be better than those of Mphasis' onsite business, largely driven by high revenue productivity.

Blink was founded in 2000; hence, from a scalability perspective, it has seen a pickup only in the last few years.

Impact on Mphasis and synergies

Mphasis expects its margins to be ~100bps lower after integration with Blink. This includes a ~50bp impact from retention payouts in the next two years. From the third year (FY25), margins will bounce back to the extent of these pay-outs. Besides, faster growth may help Mphasis offset this impact by then.

The acquisition will be funded through internal accruals; therefore, Mphasis may see lower other income till reserves build up again. Also, the company will allocate intangible assets from the total consideration and these intangibles will be amortised over five years. We have considered this in our revised D&A estimates.

Blink will continue to operate as an independent entity and will retain the founders, leadership and design-oriented workforce. Mphasis expects revenue synergies to play out in BFSI and Hi-Tech, where it plans to sell Blink-related services to its larger BFSI and Hi-Tech clients. Mphasis' 70% of the deal pipeline has opportunities to cross-sell/embed Blink's services. Besides, it will make efforts to mine clients to cross-sell some of its services to the now-enlarged client base.

Here is the representative list of clients for Blink:

Fig 7 – Clients list

	BFSI	IT, Communication & Entertainment
1	American Express	Dell
2	Capital One	Facebook
3	JPMorgan Chase	GE
4	Mastercard	Bang & Olufsen / HARMAN
5	Edelman Financial Engines	Deere & Company
6	Robinhood	Amazon Web Services (AWS)
7	Liberty Mutual	Apple
8	Silicon Valley Bank	Qualtrics
9	USAA	Adobe
10	Fiserv	Adobe

Source: Company

Conference Call Highlights

Acquisition conference-call highlights

- The target entities, co-founders Karen Clark Cole (CEO) and Kelly Franznick (CIO) have 21 years' work experience.
- Blink has aided in developing user experience for the Starbucks app, Amazon Alexa, Xbox 360; it thereby enjoys strong capabilities in customer-facing applications.
- Blink is expected to register \$33m-35m CY21 revenue, a 42% revenue CAGR over FY17-20. The growth rate inclusive of two acquisitions on the design side as Blink is strong in research
- Blink has 65 clients (CY20) and has long tenured (10 year+) relations with many of them.
- Within Mphasis, BFSI and Hi-Tech verticals are likely to gain the most from this acquisition.
- Retaining the current leadership, which averages 20+ years' experience; for this, retention-payouts are structured over the next two years.
- The company delivers mostly onsite; despite this, gross margins are high, reflecting quality of revenue
- Management expects a 100bp impact to EBIT for two years due to performance-based retention and the amortisation cost which will normalise ahead. The charge is equally divided between retention-payout and amortisation. The charge is over two years and intangibles amortization is over five years.
- Blink has 130+ employees.
- Retention to be paid in cash over two years, which is above and beyond the \$94m consideration
- Hi-Tech integration to be done at end-FY22 or start of FY23.

Q1 FY22 concall highlights

- Q1 growth was broad-based, not dependent on any large deal or segment. Therefore, the pace is likely to continue.
- Expansion in Canada (setting up a new centre in Calgary in partnership with the government of Alberta and the University of Calgary); also plans to expand in Europe.
- NCA (New Client Acquisition) program has a dedicated leadership, with a focus on the BFSI, Hi-Tech, Healthcare and Travel verticals.
- Hi-tech to become the next \$100m vertical for Mphasis.
- The top-10 US banks by assets are now Mphasis' clients
- DXC is likely to reach mid-high single digits in revenue concentration at end-FY22
- Added two clients in the \$100m category, and two in \$50m. Conversion of clients to higher buckets is accelerating.
- Europe pipeline strong; the region to be a growth driver in FY22 and beyond.

- TCV of \$505m, an all-time high (including a large \$250m deal). This deal is of 10 years. Hence, huge deal revenue expected from Q3. The average deal tenure moved toward 2-3 years. Most deals are transformation-led.
- Average deal size: \$96m. Mphasis is seeing larger and longer deals.
- In Q1, it absorbed the higher cost of revenue and unexpected Covid'19-related expenses. It still sustained margins by moderating discretionary SG&A expenses. This, as a lever, is available for FY22.
- Value-based pricing to absorb supply-side driven margin pressures. The company is looking to raise prices when contracts provide opportunities.
- Unbilled days were 35 out of 61 of DSO (in line with previous figures). The trend is not expected to differ from previous years.
- Tailwinds in margins from foreign exchange if the exchange rate holds at current levels.

Business Outlook

- Industry-leading growth in Direct in FY22; expects top-quartile growth overall.
- Margins to be maintained at 15.5-17%.
- For M&A not looking at just Europe; open to new markets. Intent to do so in FY22; looking at strategic/tuck-in size (sub-10/-15% of revenue).

Factsheet

Fig 8 – Revenue-split, by market segment (%)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
DXC	20	16	13	12	9
Direct	80	84	87	88	91
Direct core (of Mphasis)	63	NA	NA	NA	NA

Source: Company, Anand Rathi Research

Fig 9 – Revenue-split, by industry (%)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
Banking and Capital markets	49	53	53	50	51
Insurance	10	10	10	10	9
Information technology	14	12	13	15	14
Logistics & Transportation	14	12	13	13	14
Others	13	13	11	12	11

Source: Company, Anand Rathi Research

Fig 10 – Revenue split, by service line (%)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
Application Services	64	59	56	60	62
Business Process Services	21	27	29	26	27
Infrastructure Services	15	14	15	14	11

Source: Company, Anand Rathi Research

Fig 11 – Revenue-split, by region (%)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
North America	77	78	78	76	76
India	4	5	5	5	5
APAC (RoW)	7	6	5	6	7
EMEA	12	11	12	13	12

Source: Company, Anand Rathi Research

Fig 12 – Key service line and geographic growth (%)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
Top-five horizontal growth (y/y)					
Application Maintenance & Other Services	1	-1	-4	0	15
Infrastructure Management Services	-22	-24	-25	-16	-13
Business Process Services	44	78	68	55	53
Y/Y key geographic growth (%)					
North America	2	5	5	6	17
India	-18	7	5	7	49
APAC (RoW)	20	29	5	7	19
EMEA	3	18	5	16	19

Source: Company, Anand Rathi Research

Fig 13 – Revenue-split, by delivery type and billing (%)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
On-site	60.0	59.0	58.0	57.0	59.0
Offshore	40.0	41.0	42.0	43.0	41.0
T&M	59	59	59	57	58
FP	26	25	24	27	26
Transaction-based	15	16	17	16	16

Source: Company, Anand Rathi Research

Fig 14 – Direct client profiles (LTM)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
Client concentration, %					
Top-1	12.0	12.0	11.0	10.0	11.0
Top-5	39.0	39.0	40.0	41.0	42.0
Top-10	48.0	50.0	52.0	53.0	55.0
New TCV wins (\$ m)	259	360	247	245	505
No. of Direct clients added	6	5	6	8	6

Source: Company, Anand Rathi Research

Fig 15 – Clients contributing more than (based on TTM)

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
\$1m+	79	80	81	84	84
\$5m+	32	31	35	37	39
\$10m+	16	17	16	18	18
\$20m+	7	8	9	9	9
\$50m+	4	4	5	5	7
\$75m+	4	4	4	5	5
\$100m+	2	2	2	2	4

Source: Company, Anand Rathi Research

Fig 16 – Employee movement

	Q1 FY21	Q2 FY21	Q3 FY21	Q4 FY21	Q1 FY22
Number of employees	26,143	27,148	28,116	29,473	31,454
Utilisation % (cum trainees)	83.8	83.7	82.7	86.6	84.4

Source: Company, Anand Rathi Research

Valuations

The stock trades at 39x FY23e EPS of Rs83. This, we think, does not capture the correct earnings potential as Mphasis will suffer from higher costs and lower synergies initially. Also, relatively, Mphasis organically is likely to be in the top growth quadrant and the Blink acquisition will give it a strong push into the Hi-tech vertical with a wider client footprint. From a margin standpoint again, the company will incur costs in the first two years; hence, EPS may be suppressed. Considering this, the long-term potential, and prevailing valuations, we find Mphasis attractive and expect it to trade at 45x FY23, reflecting its robust pipeline, opportunities in Hi-Tech (likely the next \$100m vertical), Europe (strong pipeline), strong current pace on the Direct business side and record TCV. While the slowing DXC is no longer a concern given its lower concentration, Direct business growth should counter-balance any potential slowdown, given its strong TCV data.

The EBIT margin would contract from FY21's 15.8% (our estimates: 15.1% in FY22, 15.3% in FY23) due to retention-payouts and amortisation costs related to the Blink acquisition. Since DXC contributed only 15% to revenue in FY21 (from 24% in FY20; we expect 4% by FY23), Mphasis' risk profile has markedly improved. Also, as the contribution from DXC slid sharply, there was no impact on margins despite supply-side pressure and the higher cost of revenue. Hence, we believe that the stock should trade at a premium as the EBIT CAGR is likely to be higher than peers. Higher TCVs and conversion to revenues suggest persistent high growth.

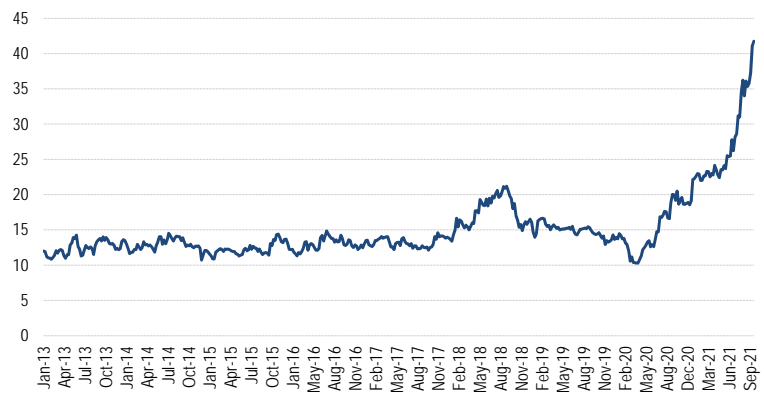
Its FCF-to-NI conversion had deteriorated in FY19 (65%) but rose to 101% in FY20. Over FY21, Mphasis generated 103% FCF:NI. Given that the Blink acquisition was all cash, FY22 FCF:NI should drop to 36% and bounce back in FY23 to 83%. Considering all these factors and that the DXC risk is now ebbing, we value it at 45x FY23e (35x previously), with a higher target of Rs3,740 (Rs3,130 previously).

Fig 17 – Change in estimates (Rs m)

	FY22			FY23		
	New	Old	Chg %	New	Old	Chg %
Revenues (\$ m)	1,528	1,505	1.5	1,741	1,681	3.6
Revenues	112,653	110,949	1.5	128,298	123,882	3.6
EBITDA	19,815	20,108	(1.5)	22,775	22,966	(0.8)
EBITDA margins %	18	18	-53bps	18	19	-79bps
EBIT	17,007	17,612	(3.4)	19,655	20,470	(4.0)
EBIT margins %	15	16	-78bps	15	17	-120bps
PBT	18,597	19,492	(4.6)	20,674	22,310	(7.3)
Net profit	13,790	14,454	(4.6)	15,505	16,732	(7.3)

Source: Anand Rathi Research

Fig 18 – PE band



Source: Bloomberg, Anand Rath Research

Risk

- Slowdown in top accounts.

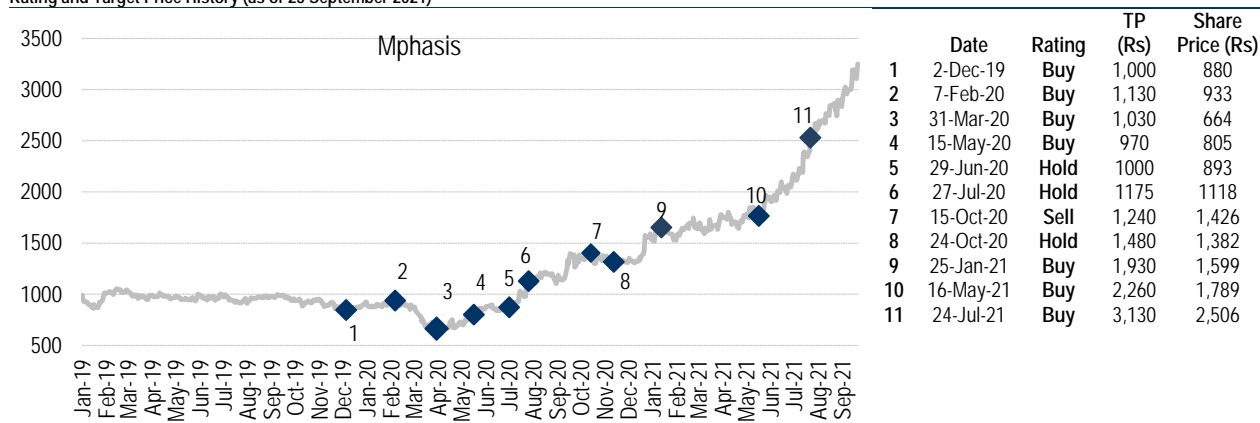
Appendix

Analyst Certification

The views expressed in this Research Report accurately reflect the personal views of the analyst(s) about the subject securities or issuers and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst(s) in this report. The research analysts are bound by stringent internal regulations and also legal and statutory requirements of the Securities and Exchange Board of India (hereinafter "SEBI") and the analysts' compensation are completely delinked from all the other companies and/or entities of Anand Rathi, and have no bearing whatsoever on any recommendation that they have given in the Research Report.

Important Disclosures on subject companies

Rating and Target Price History (as of 23 September 2021)



Anand Rathi Ratings Definitions

Analysts' ratings and the corresponding expected returns take into account our definitions of Large Caps (>US\$1bn) and Mid/Small Caps (<US\$1bn) as described in the Ratings Table below:

Ratings Guide (12 months)

	Buy	Hold	Sell
Large Caps (>US\$1bn)	>15%	5-15%	<5%
Mid/Small Caps (<US\$1bn)	>25%	5-25%	<5%

Research Disclaimer and Disclosure inter-alia as required under Securities and Exchange Board of India (Research Analysts) Regulations, 2014

Anand Rathi Share and Stock Brokers Ltd. (hereinafter refer as ARSSBL) (Research Entity) is a subsidiary of Anand Rathi Financial Services Ltd. ARSSBL is a corporate trading and clearing member of Bombay Stock Exchange Ltd, National Stock Exchange of India Ltd. (NSEIL), Multi Stock Exchange of India Ltd (MCX-SX) and also depository participant with National Securities Depository Ltd (NSDL) and Central Depository Services Ltd. ARSSBL is engaged in the business of Stock Broking, Depository Participant and Mutual Fund distributor.

The research analysts, strategists, or research associates principally responsible for the preparation of Anand Rathi research have received compensation based upon various factors, including quality of research, investor client feedback, stock picking, competitive factors and firm revenues.

General Disclaimer: This Research Report (hereinafter called "Report") is meant solely for use by the recipient and is not for circulation. This Report does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. The recommendations, if any, made herein are expression of views and/or opinions and should not be deemed or construed to be neither advice for the purpose of purchase or sale of any security, derivatives or any other security through ARSSBL nor any solicitation or offering of any investment/trading opportunity on behalf of the issuer(s) of the respective security (ies) referred to herein. These information / opinions / views are not meant to serve as a professional investment guide for the readers. No action is solicited based upon the information provided herein. Recipients of this Report should rely on information/data arising out of their own investigations. Readers are advised to seek independent professional advice and arrive at an informed trading/investment decision before executing any trades or making any investments. This Report has been prepared on the basis of publicly available information, internally developed data and other sources believed by ARSSBL to be reliable. ARSSBL or its directors, employees, affiliates or representatives do not assume any responsibility for, or warrant the accuracy, completeness, adequacy and reliability of such information / opinions / views. While due care has been taken to ensure that the disclosures and opinions given are fair and reasonable, none of the directors, employees, affiliates or representatives of ARSSBL shall be liable for any direct, indirect, special, incidental, consequential, punitive or exemplary damages, including lost profits arising in any way whatsoever from the information / opinions / views contained in this Report. The price and value of the investments referred to in this Report and the income from them may go down as well as up, and investors may realize losses on any investments. Past performance is not a guide for future performance. ARSSBL does not provide tax advice to its clients, and all investors are strongly advised to consult with their tax advisers regarding taxation aspects of any potential investment.

Opinions expressed are our current opinions as of the date appearing on this Research only. We do not undertake to advise you as to any change of our views expressed in this Report. Research Report may differ between ARSSBL's RAs and/ or ARSSBL's associate companies on account of differences in research methodology, personal judgment and difference in time horizons for which recommendations are made. User should keep this risk in mind and not hold ARSSBL, its employees and associates responsible for any losses, damages of any type whatsoever.

ARSSBL and its associates or employees may: (a) from time to time, have long or short positions in, and buy or sell the investments in/ security of company (ies) mentioned herein or (b) be engaged in any other transaction involving such investments/ securities of company (ies) discussed herein or act as advisor or lender / borrower to such company (ies) these and other activities of ARSSBL and its associates or employees may not be construed as potential conflict of interest with respect to any recommendation and related information and opinions. Without limiting any of the foregoing, in no event shall ARSSBL and its associates or employees or any third party involved in, or related to computing or compiling the information have any liability for any damages of any kind.

Details of Associates of ARSSBL and Brief History of Disciplinary action by regulatory authorities & its associates are available on our website i.e. www.rathionline.com

Disclaimers in respect of jurisdiction: This report is not directed to, 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 or regulation or which would subject ARSSBL to any registration or licensing requirement within such jurisdiction(s). No action has been or will be taken by ARSSBL in any jurisdiction (other than India), where any action for such purpose(s) is required. Accordingly, this Report shall not be possessed, circulated and/or distributed in any such country or jurisdiction unless such action is in compliance with all applicable laws and regulations of such country or jurisdiction. ARSSBL requires such recipient to inform himself about and to observe any restrictions at his own expense, without any liability to ARSSBL. Any dispute arising out of this Report shall be subject to the exclusive jurisdiction of the Courts in India.

Statements on ownership and material conflicts of interest, compensation - ARSSBL and Associates

Answers to the Best of the knowledge and belief of ARSSBL/ its Associates/ Research Analyst who is preparing this report

Research analyst or research entity or his associate or his relative has any financial interest in the subject company and the nature of such financial interest.	No
ARSSBL/its Associates/ Research Analyst/ his Relative 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?	No
ARSSBL/its Associates/ Research Analyst/ his Relative have actual/beneficial ownership of one per cent or more securities of the subject company	No
ARSSBL/its Associates/ Research Analyst/ his Relative have any other material conflict of interest at the time of publication of the research report?	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation from the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have managed or co-managed public offering of securities for the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation for investment banking or merchant banking or brokerage services from the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative 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	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation or other benefits from the subject company or third party in connection with the research report	No
ARSSBL/its Associates/ Research Analyst/ his Relative have served as an officer, director or employee of the subject company.	No

Other Disclosures pertaining to distribution of research in the United States of America

This research report is a product of ARSSBL, 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 ARSSBL 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, ARSSBL has entered into an agreement with a U.S. registered broker-dealer, Cabrera Capital Markets. ("Cabrera"). Transactions in securities discussed in this research report should be effected through Cabrera or another U.S. registered broker dealer.

1. ARSSBL or its Affiliates may or may not have been beneficial owners of the securities mentioned in this report.
2. ARSSBL or its affiliates may have or not managed or co-managed a public offering of the securities mentioned in the report in the past 12 months.
3. ARSSBL or its affiliates may have or not received compensation for investment banking services from the issuer of these securities in the past 12 months and do not expect to receive compensation for investment banking services from the issuer of these securities within the next three months.
4. However, one or more of ARSSBL or its Affiliates may, from time to time, have a long or short position in any of the securities mentioned herein and may buy or sell those securities or options thereon, either on their own account or on behalf of their clients.
5. As of the publication of this report, ARSSBL does not make a market in the subject securities.
6. ARSSBL or its Affiliates may or may not, to the extent permitted by law, act upon or use the above material or the conclusions stated above, or the research or analysis on which they are based before the material is published to recipients and from time to time, provide investment banking, investment management or other services for or solicit to seek to obtain investment banking, or other securities business from, any entity referred to in this report.

© 2021. This report is strictly confidential and is being furnished to you solely for your information. All material presented in this report, unless specifically indicated otherwise, is under copyright to ARSSBL. None of the material, its content, or any copy of such material or content, may be altered in any way, transmitted, copied or reproduced (in whole or in part) or redistributed in any form to any other party, without the prior express written permission of ARSSBL. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of ARSSBL or its affiliates, unless specifically mentioned otherwise.

Additional information on recommended securities/instruments is available on request.

ARSSBL registered address: Express Zone, A Wing, 9th Floor, Western Express Highway, Diagonally Opposite Oberoi Mall, Malad (E), Mumbai – 400097.
Tel No: +91 22 6281 7000 | Fax No: +91 22 4001 3770 | CIN: U67120MH1991PLC064106.