

## **Persistent Systems Limited**

India Equity Analytics 31-Jan-20 Result Update

Industry Bloomberg BSE CODE TECHNOLOGY PSYS IN 533179

RATING	NEUTRAL
CMP	690
Price Target	627
Potential Upside	-9%

Rating Change	$\longleftrightarrow$
Estimate Change	
Target Change	<b>←</b>

STOCK INFO	
52wk Range H/L	472/740
Mkt Capital (Rs Cr)	5275
Free float (%)	69%
Avg. Vol 1M (,000)	6
No. of Shares (Crs)	8
Promoters Pledged %	0

Fig	in	Rs	Cr

FINANCIAL	FY19	FY20E	FY21E
Net Sales	3,366	3,587	4,004
EBITDA	556	519	606
EBIT	399	353	431
PAT	352	357	402
EPS (Rs)	44	46	52
EPS growth (%)	9%	5%	13%
ROE (%)	16%	15%	16%
ROCE (%)	18%	15%	17%
BV	295	311	349
P/B (X)	2	2	2
P/E (x)	14	15	13

### Largest client drags the margin in 3Q

#### **3QFY20 Result Update**

- Persistent reported mixed set of numbers in its 3QFY20 result. Revenue grew 3.1%QoQ to USD129.4 million which is in line while margin remained way below our estimates.
- EBIT during the quarter stood at Rs 81 crore, a growth of 2%QoQ. Margin came at 8.8% for the quarter mainly impact by drop in largest client revenue. Drop in IP led revenue was partially absorbed by lower SG&A during the quarter thus resulting in overall 10 bps decline in Ebit margin.
- Gross margin for the quarter dropped 140bps to 33.3% vs. 34.7% last quarter
- PAT for the quarter stood at Rs 88 crore, a growth of 2.3%QoQ, primarily led to higher other income.
- The Company provided Rs 5 crore towards ILFS exposure and cumulative provision now stands at 38.2crore against total exposure of Rs 43 crore.

#### Lower than expected royalty impacted IP led revenue

Persistent revenue grew 3.1% showing strong growth in services business while IP led revenue remained soft. Service business grew 4.9%QoQ While IP-led business (21.2% of revenue), after a strong quarter declined 2.8%QoQ majorly attributable to lower than expected royalty revenue. Segment wise, Technology service unit led the growth by growing 6.4%QoQ owing to growth across BFSI, Healthcare & Life Sciences and ISVs . Alliance and Accelerite segment reported a soft growth of 2%/13.7%QoQ impacted by weakness in largest client.

#### Margin continue to remain weak

Persistent margins have been deteriorating for last 5 quarters and 3Q was no different. Margin has almost contracted 400bps in 9MFY20 mainly owing to lower volume and continued weakness in IP led revenue. In 3QFY20 Ebit Margin further declined 10bps to 8.8% mainly owing to weakness in largest client revenue dragging the overall margin .Going forward management expects margin to improve gradually and get back to its historical 15% level as the growth picks up.

#### View and valuation

Persistent reported a moderate growth in 3QFY20. Revenue posted a healthy growth driving mostly from service business (grew 4.9%) while dip in IP led revenue due to weakness in largest client offset some growth .Margin continued to remain flat. Digital business which has been responsible for revenues drag in the last few quarter, showed a 6.1% QoQ growth, still much lower than peers. Going forward we expect recent leadership changes and large deal win (long tenured deal wins in BFSI) will improve growth in coming quarters .However despite having large opportunities in alliance , we expect there will laggard growth in this business as largest account continues to remain volatile .

Margins have bottomed out and thus we expect to margins to improve as stability in Alliance and SG&A efficiencies will play out .

Post result, we have reduced our margin estimates by 72/70bps for FY20/FY21E seeing the miss in margins. Thus we maintain our neutral stance on the stock with target price of Rs 627.

#### Key Risks to our rating and target

- Delay in project execution.
- Slow momentum in Digital segment.

#### **RESEARCH ANALYST**

#### **NIHARIKA OJHA**

niharika@narnolia.com +91-22-62701230

The views expressed above accurately reflect the personal views of the authors about the subject companies and its(their) securities. The authors have not and will not receive any compensation for providing a specific recommendation or view. Narnolia Financial Advisors Ltd. does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.



# 3QFY20 Results Mixed performance

Fig in Rs Cr

FINANCIALS	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20	YoY %	QoQ%	FY18	FY19	YoY %
Net Sales	864	832	832	885	923	6.8%	4.3%	3033.7	3365.9	11.0%
Other Income	(1)	28	30	38	35	-3261.4%	-9.1%	119	88	-26.4%
Employee Exp	491	486	492	537	559	14.0%	4.2%	1,832	1,925	5.1%
Other Expenses	203	225	220	226	240	18.1%	6.1%	733	885	20.6%
EBITDA	170	121	120	122	124	-27.5%	1.6%	469	556	18.7%
Deprication	40	38	39	42	43	8.1%	0.7%	158	157	-0.8%
EBIT	131	83	82	79	81	-38.2%	2.0%	310	399	28.6%
Interest	0	0	2	2	1	2103.0%	-19.6%	0	0	286.1%
PBT	130	111	110	116	114	-12.0%	-1.3%	429	486	13.3%
Tax	38	27	27	29	26	-31.1%	-11.7%	106	135	26.9%
PAT	92	84	82	86	88	-4.1%	2.3%	323	352	8.9%

#### **Concall Highlights**

- **Dip in IP led revenue:** The Company reported 3%QoQ dip in the IP led revenue. The decline is majorly attributable to lower than expected royalty revenue. The company sees growth and have healthy pipeline with the largest client. The company is working on strategy of balanced growth across all areas of software business, large Alliance business and from own organic activities which will require few more quarters.
- Margin performance: The drop in largest client revenue impacted the EBITDA margin (13.4% vs. 13.8% last quarter). Gross margin dropped 140bps to 33.3% vs. 34.7% last quarter. Drop in IP led revenue was partially absorbed by lower SG&A during the quarter. The company investment in event and conference for future opportunities resulted in higher other income.
- ILFS exposure: The Company provided Rs5 crore towards ILFS exposure and cumulative provision now stands at 38.2crore against Total exposure of Rs 43 crore.
- Change in tax rate: The effective tax rate for the quarter was 22.9% vs. 25.5% last quarter. The ETR was lower on account of R&D tax credits in some locations. The ETR on annual basis is expected to be in the range of 24% to 25%. Also the company has decided to opt for the new corporate tax regime which will allow the company to get the benefit of deduction in corporate tax
- **Jump in DSO:** The company DSO days for the quarter increased from 64 to 68 days, partly the reason is due to furloughs and also as couple of customers has increased the payment from 60 days to 90 days impacting DSO by 3 days.
- **Resignation:** The Company saw illusive change in the business with separation with Mr Mark (President of alliance). Mark separated due to difference in opinion.
- Alliance business: The revenue from largest client surprised the company. The company reported a 2% dip in revenue however continued to see growth in industrial sector (significant part of overall alliance unit which grew 19%QoQ). Going forward, The company continues to see deal flow in industrial sector. Also it will expands in other larger client. The company remain bullish on growth from IBM and is positive on the potential opportunity from IBM's Red Hat acquisition.
- **Technology services business:** The Company saw strong 3Q in this segment with 6.4%QoQ growth on back of 3.5% growth in 2Q.The company saw strong growth across all verticals .BFSI services grew 6.7%QoQ, ISV emerging vertical grew 6.4% and healthcare grew 5.9%QoQ. The company won several deal wins in most of the verticals and thus sees healthy pipeline going ahead.
- **BFSI pipeline:** The company's BFSI pipeline remains healthy cross both existing customer as well as new customers. The company is able to sell more service lines , grow wallet share from customer. Also addition to that, the company also have offering in digital banking, AI &ML platform development which is seeing new area of customer pipeline.
- Healthcare vertical: This vertical for the company is basically split in three categories, Pharma side, Payer and provider side. In the Pharma side, the company continue to be strong player with large companies as client. The company continue to add logos here. Also on ISV & emerging vertical the company seeing ES playing out well and the company will continues to see growth in this segment.
- Outlook on margins: The Company expects to bring back the EBITDA margin to 15% level going ahead. G&M is expected to rebound to 35% plus (1% to 1.5% improvement). For SG&A side, optimization of 1% to 1.5% is target for the company. The company is aspiring to grow at 3% to 3.5% run rate on sustained basis.



#### **Revenue Mix**

STRONG GROWTH IN SERVICE WHILE ACCELERITE CONTINUED TO DRAG											
SERVICE(USD Mn)	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20	QoQ%	YoY%		
Services	51	51	51	53	55	57	60	6.1%	18.8%		
Digital	27	26	28	29	27	28	30	6.8%	8.4%		
Alliance	40	35	36	29	33	35	35	-2.0%	-2.8%		
Accelerite	6	6	7	7	4	5	5	-13.7%	-33.6%		

#### Revenue by Industry

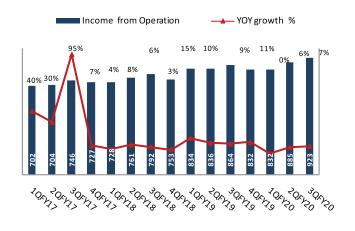
SOFTNESS IN IP LED REVENUE										
INDUSTRY WISE (USD MN)	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20	QoQ%	YoY%	
ISV	48	47	48	49	49	48	50	4.2%	4.89%	
Enterprise	42	41	43	44	45	49	52	5.5%	21.03%	
IP Led	34	30	30	26	26	28	27	-2.8%	-9.23%	

### **Revenue by Verticals**

SOLID GROWTH IN BFS WHILE TECHNOLFY VERTICAL DECLINED											
VERTICAL ( USD MN)	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20	QoQ%	YoY%		
BFS	29	29	31	32	33	36	39	10.8%	27.03%		
Healthcare & Life Science	22	21	22	23	23	23	24	6%	11.16%		
Technology Cos. &	73	67	68	63	64	67	65	-2%	-3.45%		

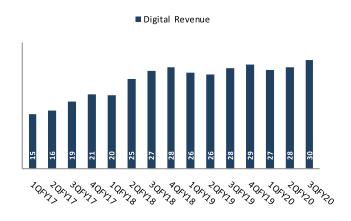
#### **Exhibit: Revenue trend**

Revival in service revenue led to solid growth in 3QFY20.



## **Exhibit: Digital revenue**

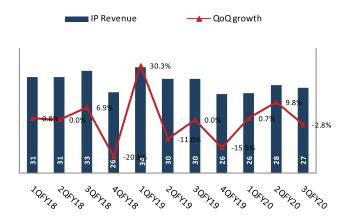
Recovery seen in digital revenue but still below peers.





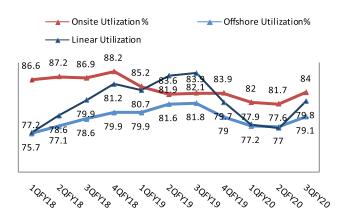
#### **Exhibit: Ipled revenue**

IP revenue has been volatile, remained weak in 3Q.



#### **Exhibit: Utlization trend**

Uptick in Utilization after declining in 2QFY20.



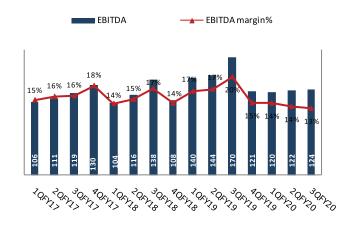
### **Exhibit: Top Client contribution**

Weakness seen in 3Q.



#### **Exhibit: Margin Trend**

T1 account decline impacted the margins.



#### **Exhibit: Attrition trend**

 $Attrition\ moderated\ after\ getting\ into\ peak\ .$ 





## **Operational Details**

INDUSTRY REVENUE MIX	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20
BFSI	23.7%	24.7%	25.7%	27.0%	27.7%	28.4%	30.5%
Healthcare & Life Science	17.6%	18.2%	18.2%	19.6%	18.9%	18.4%	18.9%
Technology Cos. & Emerging Verticals	58.7%	57.1%	56.1%	53.4%	53.4%	53.2%	50.6%

GEOGRAPHY	4QFY19	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	<b>3QFY20</b>
North America	80.9%	79.7%	82.6%	83.7%	80.9%	82.5%	81.4%	80.1%
Europe	8.2%	12.0%	7.5%	7.6%	7.9%	8.5%	9.9%	10.6%
India	7.9%	6.1%	7.3%	6.8%	7.7%	6.7%	6.7%	7.4%
ROW	3.0%	2.2%	2.6%	1.9%	3.5%	2.3%	2.0%	1.9%

INDUSTY WISE(%)	4QFY18	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20
ISV	40.6%	38.8%	39.5%	39.8%	41.2%	40.6%	38.6%	39.0%
Enterprise	37.1%	33.8%	34.9%	35.2%	37.2%	37.9%	38.9%	39.8%
IP Led	22.3%	27.4%	25.6%	25.0%	21.6%	21.5%	22.5%	21.2%

CLIENT	4QFY19	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20
Top 1	21.7%	23.8%	25.7%	26.3%	20.2%	23.6%	23.7%	21.5%
Top 5	40.9%	43.8%	43.3%	45.0%	40.0%	44.6%	44.3%	42.3%
Top 10	49.9%	53.7%	52.4%	54.6%	50.2%	52.6%	53.4%	51.1%
Large > \$ 3Mn	18	18	18	20	20	22	20	22
Medium > \$1Mn, < \$3Mn	53	58	56	56	57	56	56	53

DELIVERY CENTERS	4QFY18	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20
Onsite	34	31	30	30	31	31	31	31.5
Offshore	44	42	45	45	47	48	47	47.3
IP Led	22	27	26	25	22	22	23	21.2

YIELD	4QFY18	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20
yield	5225	5497	5329	5386	5082	4953	5134	5231

PEOPLE NUMBERS	4QFY19	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20
Technical	8329	8196	8566	8761	9185	9363	9726	9729
Sales & Business Development	211	237	247	266	273	272	285	266
Rest	436	469	489	503	504	532	532	537
Grand Total	8976	8902	9302	9530	9962	10167	10543	10532



## **Operational Details**

ATTRITION RATE	4QFY18	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	<b>3QFY20</b>
Attrition Rate	14.7	14.8	15.4	16.4	16.7	17.1	15.7	14.9

UTILIZATION	4QFY18	1QFY19	2QFY19	3QFY19	4QFY19	1QFY20	2QFY20	3QFY20
LINEAR Utilization	81.2	80.7	81.9	82.1	79.7	77.9	77.6	79.8
Onsite Utlization %	88.2	85.2	83.6	83.9	83.9	82.0	81.7	84.0
Offshore Utilization%	79.9	79.9	81.6	81.8	79.0	77.2	77.0	79.1

SEGMENTS	4QFY19	1QFY19	2QFY19	<b>3QFY19</b>	4QFY19	1QFY20	2QFY20	3QFY20
Services	45.5%	41.5%	43.0%	41.9%	44.6%	45.8%	45.2%	46.5%
Digital	24.0%	21.4%	22.0%	22.9%	24.4%	22.7%	22.4%	23.2%
Alliance	24.3%	32.1%	29.5%	29.4%	24.8%	27.8%	28.1%	26.7%
Accelerite	6.2%	5.0%	5.5%	5.8%	6.2%	3.7%	4.3%	3.6%



## **Financial Details**

### **Balance Sheet**

Fig in Rs Cr

Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Share Capital	40	80	80	80	80	80	77	77
Reserves	1,182	1,326	1,559	1,819	2,047	2,266	2,317	2,608
Networth	1,222	1,406	1,639	1,899	2,127	2,345	2,394	2,685
Debt	3	2	3	2	2	1	1	1
Other Non Current Liab	39	12	13	28	43	25	25	25
Total Capital Employed	1,226	1,408	1,642	1,901	2,129	2,346	2,395	2,686
Net Fixed Assets (incl CWIP)	436	409	445	557	509	424	331	264
Non Current Investments	82	212	135	234	288	435	435	435
Other Non Cur Asst	46	1	87	7	9	7	7	7
Non Current Assets	478	456	571	701	599	524	431	364
Debtors	303	359	428	475	485	492	525	586
Cash & Bank	96	142	143	151	242	672	644	789
Other Curr Assets	90	104	179	86	156	139	148	165
Current investments	407	462	483	450	592	330	488	676
current tax asset	-	-	-	9	11	19	19	19
Short-term loans and advances	41	41	81	1	1	1	1	1
Current Assets	937	1,106	1,314	1,404	1,763	1,890	2,061	2,473
Creditors	43	53	165	121	167	152	162	180
Provisons	121	176	122	139	160	169	180	201
Other Curr Liab	114	127	164	111	120	112	120	134
Other financial liability	-	-	-	45	40	44	44	44
Curr Liabilities	278	355	452	417	487	484	513	567
Net Curr Assets	658	751	861	987	1,276	1,406	1,548	1,906
Total Assets	1,543	1,775	2,107	2,346	2,659	2,856	2,933	3,278

## **Income Statement**

Fig in Rs Cr

Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Revenue from Operation	1669	1891	2312	2878	3034	3366	3587	4004
Change (%)	29%	13%	22%	24%	5%	11%	7%	12%
EBITDA	414	390	414	465	469	556	519	606
Change (%)	32%	-6%	6%	12%	1%	19%	-7%	17%
Margin (%)	25%	21%	18%	16%	15%	17%	14%	15%
Depr & Amor.	103	94	97	149	158	157	166	175
EBIT	312	296	317	316	310	399	353	431
Int. & other fin. Cost	0	0	0	-	0	0	7	6
Other Income	31	94	78	96	119	88	127	111
EBT	343	390	396	412	429	486	473	536
Exp Item	-	-	-	11	-	-	-	-
Tax	93	99	98	99	106	135	116	134
Minority Int & P/L share of Ass.	-	-	-	-	-	-	-	-
Reported PAT	249	291	297	302	323	352	357	402
Adjusted PAT	249	291	297	302	323	352	357	402
Change (%)	33%	17%	2%	1%	7%	9%	1%	13%
Margin(%)	15%	15%	13%	10%	11%	10%	10%	10%



## **Financial Details**

## **Key Ratios**

Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
ROE	22%	22%	20%	17%	16%	16%	15%	16%
ROCE	28%	23%	21%	18%	15%	18%	15%	17%
Asset Turnover	1	1	1	1	1	1	1	1
Current Ratio	3	3	2.9	3.4	3.6	3.9	4.0	4.4
Debtor Days	66	69	67	60	58	53	53	53
Book Value Per Share	9	10	26	15	20	16	16	16
Payable Days	306	171	207	237	266	295	311	349
Earnings Per Share	62	36	37	38	40	44	46	52
P/E	17	20	20	16	18	14	15	13
Price / Book Value	3	4	4	3	3	2	2	2
EV/EBITDA	10	14	14	10	12	9	10	8
EV/Sales	2	3	3	2	2	1	1	1

## **Cash Flow Statement**

Fig in Rs Cr

								Fig in Rs Cr
Y/E March	FY14	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
PBT	343	390	396	401	429	486	473	536
(inc)/Dec in Working Capital	51	28	84	106	106	106	106	106
Non Cash Op Exp	87	49	43	97	108	115	167	175
Int Paid (+)	0	0	0	0	0	0	0	0
Tax Paid	98	100	101	105	121	141	116	134
others	0	0	0	0	0	0	0	0
CF from Op. Activities	281	312	254	286	421	432	511	553
(inc)/Dec in FA & CWIP	-58	-96	-166	-218	-65	-38	-73	-108
Free Cashflow	223	216	88	69	356	394	438	445
(Pur)/Sale of Inv	-1239	0	46	0	0	-14	-158	-188
others	1099	-126	44	-4	-278	168	0	0
CF from Inv. Activities	-196	-232	-116	-222	-347	-226	-231	-296
inc/(dec) in NW	0	0	0	0	0	0	-3	0
inc/(dec) in Debt	2	1	-1	0	0	0	0	0
Int. Paid	-44	0	0	0	0	0	0	0
Div Paid (inc tax)	-7	-67	-125	-58	-95	-102	-111	-111
others	0	0	0	0	0	0	0	0
CF from Fin. Activities	-50	-66	-127	-58	-96	-160	-308	-111
Inc(Dec) in Cash	35	14	11	6	-22	47	-29	146
Add: Opening Balance	48	84	129	140	156	127	174	145
Closing Balance	83	99	140	146	135	174	145	291



Narnolia Financial Advisors Ltd. is a SEBI registered Research Analyst having SEBI Registration No. INH300006500. The Company/Analyst (s) does/do not have any holding in the stocks discussed but these stocks may have been recommended to clients in the past. Clients of Narnolia Financial Advisors Ltd. may be holding aforesaid stocks.

The stocks recommended are based on our analysis which is based on information obtained from public sources and sources believed to be reliable, but no independent verification has been made nor is its accuracy or completeness guaranteed.

Disclosures: Narnolia Financial Advisors Ltd. (NFAL) (FormerlyMicrosec Capital Ltd.) is a SEBI Registered Research Analyst having registration no. INH300006500. NFALis engaged in the business of providing Stock Broking, Depository Participant, Merchant Banking, Portfolio Management & distribution of various financial products. Details of associate entities of NFAL is available on the website at www.narnolia.com

No penalties have been levied on NFAL by any Regulatory/Statutory authority. NFAL, it's associates, Research Analyst or their relative may have financial interest in the subject company. NFAL and/or its associates and/or Research Analyst may have 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. NFAL 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 NFAL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report. Research Analyst may have served as director/officer, etc. in the subject company in the last 12 month period. NFAL and/or its associates may have received compensation from the subject company in the past 12 months. In the last 12 months period ending on the last day of the month immediately preceding the date of publication of this research report, NFAL or any of its associates may have: a) managed or co-managed public offering of securities from subject company of this research report, b) received compensation for investment banking or merchant banking or brokerage services from subject company of this research report, c) received compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company of this research report. d) Subject Company may have been a client of NFAL or its associates during 12 months preceding the date of distribution of the research report. NFAL and it's associates have not received any compensation or other benefits from the Subject Company or third party in connection with the research report. NFAL and / or its affiliates may do and seek to do business including Investment Banking with companies covered in the research reports. As a result, the recipients of this report should be aware that NFAL 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. Research Analyst's views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of NFAL or its associates maintains arm's length distance with Research Team as all the activities are segregated from NFAL research activity and therefore it can have an independent view with regards to subject company for which Research Team have expressed their views.

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.

Disclosure of Interest Statement-

Analyst's ownership of the stocks mentioned in the Report	NIL
---	-----

A graph of daily closing prices of securities is available at www.nseindia.com, www.bseindia.com.

Correspondence Office Address: Arch Waterfront, 5th Floor, Block GP, Saltlake, Sector 5, Kolkata 700 091; Tel No.: 033-40541700; www.narnolia.com.

Registered Office Address: Marble Arch, Office 201, 2nd Floor, 236B, AJC Bose Road, Kolkata 700 020; Tel No.: 033-4050 1500; www.narnolia.com

 $Compliance\ Officer: Manish\ Kr\ Agarwal, Email\ Id:\ mkagarwal @narnolia.com,\ Contact\ No.:033-40541700.$ 

Registration details of Company: Narnolia Financial Advisors Ltd. (NFAL): SEBI Stock Broker Registration: INZ000166737 (NSE/BSE/MSEI); NSDL/CDSL: IN-DP-380-2018; Research Analyst: INH300006500, Merchant Banking: (Registration No.: INM000010791), PMS: (Registration No.: INP000002304), AMFI Registered Mutual Fund distributor: ARN 3087

Registration Details of Group entities: G. Raj & Company Consultants Ltd (G RAJ)-BSE Broker INZ260010731; NSDL DP: IN-DP-NSDL-371-2014 || Narnolia Commerze Limited (Formerly Microsec Commerze Ltd.)-MCX/NCDEX Commodities Broker: INZ000051636 || NarnoliaVelox Advisory Ltd.- SEBI Registered PMS: INP000005109 || Eastwind Capital Advisors Pvt Ltd. (EASTWIND)-SEBI Registered Investment Adviser: INA300005439 || Narnolia Insurance Brokers Limited (Formerly Microsec Insurance Brokers Ltd.)-IRDA Licensed Direct Insurance Broker (Life & Non-Life) Certificate No. 134, License No. DB046/02 || Narnolia Securities Ltd. (NSL)-AMFI Registered Mutual Fund distributor: ARN 20558, PFRDA NPS POP: 27092018 || Narnolia Capital Advisors Pvt. Ltd. - RBI Registered NBFC:B.05.02568.

#### Disclaimer:

This report has been prepared by Narnolia Financial Advisors Ltd. (NFAL) and is meant for sole use by the recipient and not for public 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 NFAL. 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. 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. 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. 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 his/her/its own advisors to determine the merits and risks of such an investment. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. NFAL will not treat recipients as customers by virtue of their receiving this report. Neither the Company, 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 or lost opportunities that may arise from or in connection with the use of the information/report. The person accessing this information specifically agrees to exempt NFAL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold NFAL or any of its affiliates or employees responsible for any such misuse and further agrees to hold NFAL 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 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 NFAL & its group companies to registration or licensing requirements within such jurisdictions.