



## Infosys

## Lack of acceleration in core verticals is a concern

April 13, 2018

Madhu Babu madhubabu@plindia.com +91-22-66322300

Rating	BUY
Price	Rs1,169
Target Price	Rs1,220
Implied Upside	4.4%
Sensex	34,193
Nifty	10,481

(Prices as on April 13, 2018)

Trading data								
Market Cap. (Rs	bn)		2,674.7					
Shares o/s (m)			2,288.0					
3M Avg. Daily va	lue (Rs m)		5964.9					
Major sharehold	lers							
Promoters			13.39%					
Foreign 34.9								
Domestic Inst.								
Public & Other			29.98%					
Stock Performan	ice							
(%)	1M	6M	12M					
Absolute	(1.0)	25.4	25.5					
Relative	(2.0)	20.0	9.5					
How we differ fr	om Consens	sus						
EPS (Rs)	PL	Cons.	% Diff.					
2019	69.2	77.0	-10.2					
2020	77.1	82.0	-6.0					

## Price Performance (RIC: INFY.BO, BB: INFO IN)



Source: Bloomberg

Infosys 4QFY18 results were a mixed bag. Revenues at USD2805mn were up 1.8% QoQ and marginally below our estimates (Ple: USD2824mn). Constant currency growth for the quarter stood at 0.6% below our estimates (Ple: 1.5% cc growth). EBIT margin came at 24.7% up 40bps QoQ and above our estimates (Ple: 24.6%). PAT for the quarter came at Rs36.9bn marginally below our estimates owing to lower other income (Ple: Rs37.4bn). Among verticals, BFSI vertical revenues were up 0.1% QoQ in constant currency and Retail &CPG vertical revenues were down 0.7% QoQ in constant currency. Among Geographies, North America revenues were up 0.1% QoQ in constant currency and revenues from Europe were down 0.2% QoQ in constant currency. Absence of growth uptick in BFS (excluding Insurance) and Retail &CPG vertical which together account to 39% of total revenues is a concern. Tepid growth in developed markets is also a concern. Insourcing by select North American banks and disruption of Traditional retailers owing to online retailers (Amazon) is weighing on growth in these verticals.

For FY19E, Infosys quided for 6-8% YoY constant currency growth in line with our estimates ( vs 5.8% cc revenue growth delivered in FY18). Infosys has lowered EBIT margin guidance at 22-24% for FY19E (vs 23-25% earlier). Management guided that it intends to increase investments in Digital, expand Sales investments to drive large deal wins and focus on localization of business (investing in onsite delivery and local hiring). Hence, Infosys has reset the margin band lower despite strong margin execution in FY18 and favourable 4QFY18 exit EBIT margin (which is 24.7%). We believe Infosys is building conservatism in margin guidance. Considering the strong execution on margin front in FY18, we only marginally trim our EBIT margin assumptions to 23.9/24.1% for FY19E/FY20E (v/s 24.1/24.5% modelled earlier). We also trim our USD revenue growth assumptions to 8.4/8.5% for FY19E/FY20E (vs 9.1%/8.7% modelled earlier). Led by USD revenue downgrade, modest EBIT margin downgrade and lower other income (factoring special dividends) we marginally trim our EPS estimates by 2.6/2.5% for FY19E/FY20E to Rs 69/77/sh for FY19/FY20E. Infosys aims to return Rs130bn to shareholders in FY19E. While Rs26bn has been earmarked for special dividend (to be given in June), we believe Infosys could only do a Buy back post Dec 15, 2018 (completion of one year from earlier Buyback). Retain TP at Rs1220/sh (16x FY20E EPS vs 15.5x FY20 EPS earlier) and maintain BUY.

THAIL TO THE				
Key financials (Y/e March)	2017	2018	<b>2019E</b>	2020E
Revenues (Rs m)	684,850	705,220	773,647	836,579
Growth (%)	9.7	3.0	9.7	8.1
EBITDA (Rs m)	186,050	190,100	203,091	221,253
PAT (Rs m)	143,530	160,280	150,524	167,676
EPS (Rs)	62.7	72.0	69.2	77.1
Growth (%)	6.4	14.8	(4.0)	11.4
Net DPS (Rs)	25.8	33.9	41.5	36.2

<b>Profitability &amp; Valuation</b>	2017	2018	<b>2019E</b>	2020E
EBITDA margin (%)	27.2	27.0	26.3	26.4
RoE (%)	22.0	24.3	23.2	23.8
RoCE (%)	22.0	24.4	23.1	23.7
EV / sales (x)	3.3	3.3	2.9	2.6
EV / EBITDA (x)	12.3	12.1	10.9	9.8
PE (x)	18.6	16.2	16.9	15.2
P / BV (x)	3.9	4.1	3.8	3.4
Net dividend yield (%)	2.2	2.9	3.6	3.1

Source: Company Data; PL Research

Prabhudas Lilladher Pvt. Ltd. and/or its associates (the 'Firm') does and/or 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 the report. Investors should consider this report as only a single factor in making their investment decision.



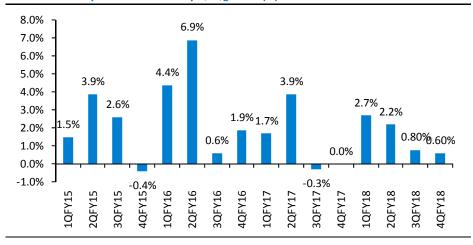
Exhibit 1: Q4FY18: Revenues remain tepid while Margins beat

Rs mn	Q4FY18	Q3FY18	QoQ	Q4FY17	YoY	Q1FY18(PLe)	Variance(PL VS ACTUAL)
Total Operating Income (US\$)	2,805	2,755	1.8%	2,569	9.2%	2,824	-0.7%
Total Operating Income	180,830	177,940	1.6%	171,200	5.6%	182,422	-0.9%
EBIT	44,720	43,190	3.5%	42,120	6.2%	44,876	-0.3%
EBIT Margin	24.7%	24.3%	46 bps	24.6%	13 bps	24.6%	13 bps
Pre Tax Income	50,060	52,810	-5.2%	49,580	1.0%	52,376	-4.4%
Tax	13,160	1,520		13,300		14,927	
Tax Rate	26.3%	2.9%		26.8%		28.0%	
PAT	36,900	51,290	-28.1%	36,030	2.4%	37,449	-1.5%
APAT	36,900	36,970	-0.2%	36,030	2.4%	37,449	-1.5%
EPS	17.0	16.2	4.5%	15.8	7.7%	16.5	3.1%

Revenues below estimates: Revenues stood at US\$2805m for Q4FY18, up 1.8% QoQ and below our estimates (US\$2824m). Revenue growth was 0.6% QoQ in constant currency and below our expectations (PLe: 1.5% cc growth). Volume growth for the quarter stood at 1.1% (Onsite up 0.2% QoQ and offshore up 1.5% QoQ). Blend pricing dropped by 0.2% in cc (Onsite up 0.4% QoQ and offshore down 0.2% QoQ in constant currency).

CC revenue growth was 0.6% for the quarter. BFS and Retail continued to show tepid performance. Developed markets (North America and Europe) remained weak for the quarter

Exhibit 2: Infosys Constant Currency QoQ growth (%)



Source: Company Data, PL Research

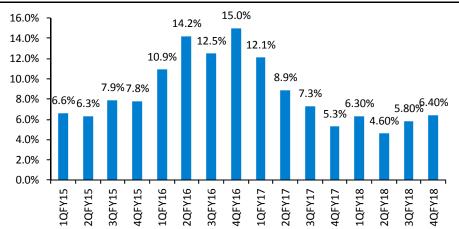


Exhibit 3: Infosys Constant currency YoY growth (%)

Margins beat estimates: EBIT margin came in at 24.7% up 40bps QoQ and above our estimates (PLe: 24.6%). Effort mix shift towards offshore continued to aid margin improvement for the quarter. Effort from offshore came at 71.3% up 30bps and up 60bps YoY has aided margins.

EBIT margin Average Exchange Rate 26.1% 27.0% 70 25.1% 68 26.0% 66 64 25.0% 62 24.0% 60 58 23.0% 56 22.0% 1QFY15 2QFY15 3QFY15 4QFY15 1QFY16 2QFY16 3QFY16 4QFY16 1QFY17 4QFY17 1QFY18 2QFY18 3QFY18 4QFY18 2QFY17 3QFY17

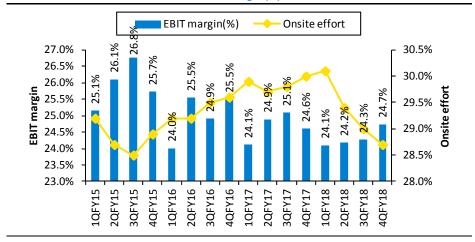
**Exhibit 4: EBIT Margins vs Average Exchange Rate** 

Source: Company Data, PL Research



 Company has shown a steady reduction in effort from onsite over the past three quarters which aided in margin trajectory.

Exhibit 5: Effort mix from Onsite and EBIT Margin (%)

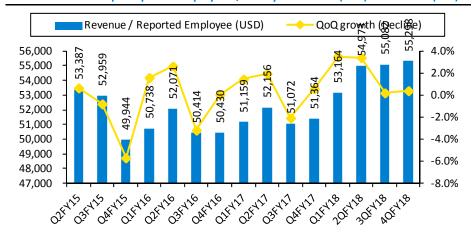


Source: Company Data, PL Research

## Focus on Automation to drive revenue per reported employee

Infosys revenue per reported employee (Quarterly annualized) stood at USD 55,298 per employee as on 3QFY18. This represents a 7.7% YoY growth. Strong focus on improving utilisation rates has aided revenue productivity of Infosys.

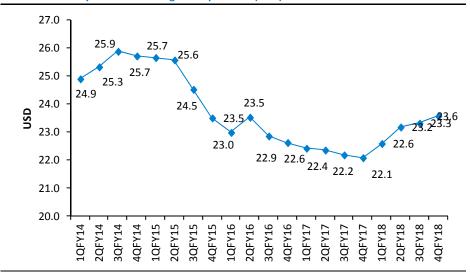
Exhibit 6: Revenue per reported employee Quarterly Annualized (USD) and Growth (YoY)



Source: Company Data, PL Research \* Revenue per reported employee is quarterly annualized

Infosys continues to show sharp improvement in utilisation rates and tepid hiring trend which is visible in the surge in revenue productivity. Improving mix of business and focus on automation has also been driving the offshore realisations.

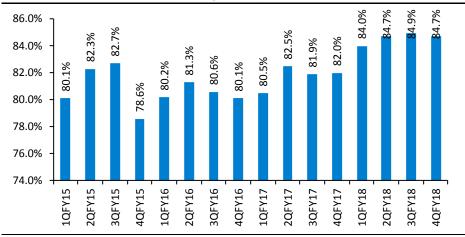
Exhibit 7: Infosys Offshore Billing Rates per hour (USD)



## **Utilisation remain strong**

IT services utilisation (excluding trainees) came in at 84.7% for Q4FY18 down 20bps QoQ. Infosys has been maintaining utilisation rates above 80% for the past ten consecutive quarters..

**Exhibit 8: IT Service Utilisation (excluding trainees)** 



Source: Company Data, PL Research



## **Key Takes from the concall:**

## Infosys aims to focus on a four pillar strategy. These include

- Strengthening the Digital business (which is currently 25% of total revenues) and increasing investments in these capabilities.
- Energizing the Core: This aims at using automation platforms (Nia) to drive efficiency in the traditional services
- Re skilling the Employees: This would increase focus on reskilling the employees on new and Digital Technologies.
- Localization: This would aim at Increasing investments in local delivery and increased onsite hiring. For example, Infosys has done recent investments in technology hubs in Indiana and Connecticut in North America. Company also aims to increase localization in Europe and in Australia.

### Other Key Highlights from concall

- Infosys would be giving wage hikes to 85% of employees in 1QFY19 and wage hikes to remaining 15% of employee in 2QFY19.
- Acquisition: Infosys entered into a definitive agreement to acquire WongDoody., a US-based digital creative and consumer insights agency for a total consideration of up to USD75 mn. This acquisition is subject to regulatory approvals and fulfilment of closing conditions.
- Hive off Panaya and Skava: Infosys initiated identification and evaluation of potential buyers for its subsidiaries, Kallidus and Skava and Panaya. Both these acquisitions were done under Dr Sikka's tenure and the new management aims to dispose of these assets. We believe that disposal of these assets would not have any meaningful impact on revenues for FY19E(As combined revenues of both the entities could be ~USD60mn in our view).
- The Company anticipates completion of the sale by March 2019 and accordingly, assets amounting to USD316mn and liabilities amounting to USD50 mn in respect of the disposal group have been reclassified and presented as "held for sale".



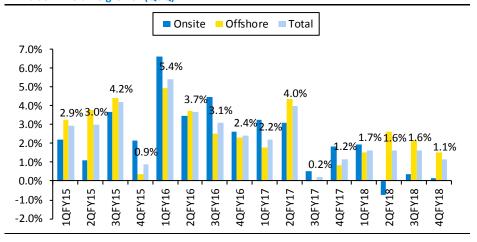
Volume growth for the quarter improved and grew by 1.1% for the quarter.

# Blended pricing dropped by 0.2% for the quarter. (Onsite: up 0.4%QoQ in cc and

offshore down 0.2% QoQ in cc)

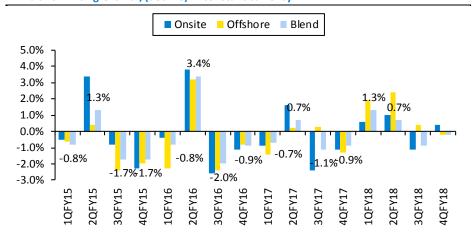
## **Key Metrics**

Exhibit 9: Volume growth (QoQ)



Source: Company Data, PL Research

Exhibit 10: Pricing Growth/(decline) in constant currency



Source: Company Data, PL Research

**Steady TCV wins:** TCV wins for the quarter stood at USD905mn and remained strong..

Exhibit 11: TCV and number of deal wins

USD mn	2QFY16	3QFY16	4QFY16	1QFY17	2QFY17	3QFY17	4QFY17	1QFY18	2QFY18	3QFY18	4QFY18
TCV	688	983	350	757	810	1,209	664	657	731	779	905

Source: Company Data, PL Research



## **Operating metrics**

**Exhibit 12: Geography Mix of Revenues (%)** 

Geography Mix (%)	1QFY17	2QFY17	3QFY17	4QFY17	1QFY18	2QFY18	3QFY18	4QFY18
North America	62	61.5	62.0	62.3	61.1	60.6	60.4	59.4
Europe	23	22.5	22.2	22.1	22.4	23.2	24.4	24.8
India	2.7	3.4	3.4	3.2	3.6	3.3	3	2.8
Rest of the world	12.3	12.6	12.4	12.4	12.9	12.9	12.2	13

Source: Company Data, PL Research

Europe revenues were down 0.2% QoQ in constant currency. However, cross currency tailwind aided reported USD revenues grow by 3.5% QoQ.

Exhibit 13: Geography wise Revenues and Growth in geographies (%)

(USD mn)	4QFY18	3QFY18	QoQ gr.	4QFY17	YoY gr.
North America	1666	1664	0.1%	1600	4.1%
Europe	696	672	3.5%	568	22.5%
India	79	83	-5.0%	82	-4.5%
Rest of the World	365	336	8.5%	319	14.5%
Total Revenues	2805	2755	1.8%	2569	9.2%

Source: Company Data, PL Research

Exhibit 14: Vertical Mix of Revenues (%)

Vertical Mix (%)	1QFY17	2QFY17	3QFY17	4QFY17	1QFY18	2QFY18	3QFY18	4QFY18
BFSI	32.8	33.1	33.3	33.5	33.3	33.4	33.1	33
BFS	27.2	27.4	27.2	27.4	27.1	27	26.3	26.2
Insurance	5.6	5.7	6.1	6.1	6.2	6.4	6.8	6.8
Manufacturing	22.8	22.5	22.5	22.4	22.2	22	21.8	21.9
Retail and Life sciences	24.2	23.5	23.5	22.7	22.7	22.6	22.7	22.4
a) Retail and CPG	15.5	14.9	14.6	14.1	14.2	13.8	14.1	13.3
b)Transport and Logistics	1.9	1.9	2.0	2.0	1.9	2	2.1	2.5
c)Life sciences	4.7	4.5	4.6	4.6	4.6	4.8	4.6	4.7
d)Healthcare	2.1	2.2	2.3	2.0	2	2	1.9	1.9
Energy and utilities , communication and services	20.2	20.9	20.7	21.4	21.8	22	22.4	22.7
a)Energy and Utilities	4.7	4.8	5.0	5.0	5.2	5.5	5.8	5.9
b) Communication services	9.4	9.4	9.1	9.9	10.4	10.4	10.5	10.8
c) Others	6.1	6.7	6.6	6.5	6.2	6.1	6.1	6

Source: Company Data, PL Research

Exhibit 15: Vertical wise Revenues and Growth in verticals (%)

(USD mn)	4QFY18	3QFY18	QoQ gr.	4QFY17	YoY gr.
BFS	734.9	724.6	1.4%	703.9	4.4%
Insurance	190.7	187.3	1.8%	156.7	21.7%
Manufacturing	614.3	600.6	2.3%	575.5	6.7%
Retail	373.1	388.5	-4.0%	362.2	3.0%
Telecom	302.9	289.3	4.7%	254.3	19.1%
Energy & Utilities	165.5	159.8	3.6%	128.5	28.8%
Transportation & Logistics	70.1	57.9	21.2%	51.4	36.5%
Healthcare and life sciences	185.1	179.1	3.4%	169.6	9.2%
Others	168.3	168.1	0.1%	167.0	0.8%
Total Revenues	2805.0	2755.0	1.8%	2569.0	9.2%

Exhibit 16: Service Mix (%)

Service Mix (%)	1QFY17	2QFY17	3QFY17	4QFY17	1QFY18	2QFY18	3QFY18	4QFY18
Business Operations	62.4	62.8	62.0	61.9	62.0	62.3	61.9	62.7
Application Development	14.4	15.6	15.5	15.3	15.4	15.6	15.4	15.5
Application Maintenance	19.5	18.1	17.0	16.8	16.7	16.0	16.2	15.6
Infrastructure Management Services	8.3	8.4	8.6	8.5	8.4	9.0	8.8	9.3
Testing Services	9.1	9.2	9.1	9.0	9.3	9.4	9.4	9.8
Business Process Management	4.9	4.9	4.9	5.1	5.0	5.1	5.3	5.4
Product Engineering	3.5	3.7	3.9	4.0	4.1	4.1	4.0	3.1
Others	2.7	2.9	3.0	3.2	3.1	3.1	2.8	4.0
Consulting & System Integration	32.1	32.1	32.4	32.6	32.6	32.5	32.8	32.4
Products, Platforms and Solutions	5.5	5.1	5.6	5.5	5.4	5.2	5.3	4.9

Source: Company Data, PL Research

**Exhibit 17: Employee Metrics** 

	1QFY17	2QFY17	3QFY17	4QFY17	1QFY18	2QFY18	3QFY18	4QFY18
Total Employees	197,050	199,829	199,763	200,364	198,553	198,440	201,691	204,107
S/W professionals	184,644	187,595	187,919	188,665	186,882	186,806	189,998	192,179
Billable	173,154	176,334	178,548	178,474	178,494	180,397	180,842	182,619
Banking Product Group	4,910	4,958	4,941	4,753	4,770	4,498	4,367	4,308
Trainees	6,580	6,303	4,430	5,438	3,618	1,911	4,789	5,252
Sales & Support	12,406	12,234	11,844	11,699	11,671	11,634	11,693	11,928
Gross Addition	13,268	12,717	9,120	9,130	8,645	10,514	12,622	12,329
Net Addition	3,006	2,779	(66)	601	(1,811)	(113)	3,251	2,416
Attrition	10,262	9,938	9,186	8,529	10,456	10,627	9,371	9,913
Attrition Consol						21.4	18.6	19.4
(Quarterly Annualized)	21.0	20.0	18.4	17.1	21.0	21.7	10.0	13.4

Source: Company Data, PL Research



**Exhibit 18: Financial summary** 

Exhibit 18: Financial summary						
	FY15	FY16	FY17	FY18	FY19E	FY20E
Total revenues USD mn	8711	9501	10208	10,939	11,857	12,870
Growth (%)	5.6%	9.1%	7.4%	7.2%	8.4%	8.5%
Average exchange rate	61.2	65.7	67.1	64.5	65.25	65.00
Total Revenues (Rs mn)	533,190	624,410	684,850	705,220	773,647	836,579
Growth (%)	6.4%	17.1%	9.7%	3.0%	9.7%	8.1%
EBIDTA	149,028	170,780	186,050	190,100	203,091	221,253
EBIT	138,338	156,190	169,020	171,480	184,523	202,012
PAT	123,328	134,900	143,530	160,280	150,524	167,676
Margins						
EBIDTA Margins (%)	28.0%	27.4%	27.2%	27.0%	26.3%	26.4%
EBIT Margin (%)	25.9%	25.0%	24.7%	24.3%	23.9%	24.1%
PBT(%)	32.4%	30.0%	29.2%	28.8%	27.2%	28.0%
NPM	23.1%	21.6%	21.0%	22.7%	19.5%	20.0%
Tax Rate	28.6%	28.0%	28.0%	20.9%	28.5%	28.5%
Diluted EPS	54	59	63	71.1	69.2	77.1
EPS Growth (%)	15.8%	9.4%	6.4%	13.2%	-2.7%	11.4%
P/E	17.1	15.7	14.7	15.8	16.2	14.5
P/S	4.0	3.4	3.1	3.6	3.3	3.0
EV/EBIDTA	12.1	10.4	9.3	11.8	10.9	9.8
ROE (%)	24.1%	23.2%	22.0%	24.3%	23.2%	23.8%
ROCE (%)	24.1%	23.2%	22.0%	24.3%	23.2%	23.8%
DPS	22.4	24.4	25.9	33.4	41.5	36.2
Dividend Payout Ratio	41.4%	41.5%	41.2%	56.8%	72.5%	56.8%
Dividend Yield (%)	2.4%	2.6%	2.8%	2.9%	3.5%	3.1%
Consolidated Balance sheet (Rs mn)						
Net Cash on Balance Sheet	330520	391540	389770	300,811	328,523	385,442
Net Cash Per Share	145	171	171	138	151	177
Net Cash per share as a % of stock price	15.6%	18.5%	18.4%	11.8%	12.9%	15.1%
Consolidated Cash flow (Rs mn)						
Cash flow from Operations	107520	122430	140630	155,067	158,902	174,197
Capex+ acquisitions	35290	34700	27600	22,000	22,000	22,000
Free cash flow from operations	72230	87730	113030	133,067	136,902	152,197
FCF /EBIDTA	48.5%	51.4%	60.8%	70.0%	67.4%	68.8%
FCF Yield(%)	3.4%	4.1%	5.3%	5.2%	5.4%	6.0%



## Income Statement (Rs m)

Y/e March	2017	2018	2019E	2020E
Net Revenue	684,850	705,220	773,647	836,579
Employee costs	415,500	432,690	478,689	516,610
Gross Profit	269,350	272,530	294,958	319,969
Other costs	_	_	_	_
SG&A expenses	83,300	82,430	91,867	98,716
EBITDA	186,050	190,100	203,091	221,253
Depr. & Amortization	17,030	18,620	18,568	19,241
Other Income	30,790	31,930	26,000	32,500
Profit before Tax	199,810	203,410	210,523	234,512
Total Tax	55,980	42,420	59,999	66,836
Profit after Tax	143,830	160,990	150,524	167,676
Ex-Od items / Min. Int.	300	710	_	_
Adj. PAT	143,530	160,280	150,524	167,676
Avg. Shares O/S (m)	2,288.0	2,224.9	2,176.0	2,176.0
EPS (Rs.)	62.7	72.0	69.2	77.1

## **Balance Sheet Abstract (Rs m)**

/			
2017	2018	<b>2019E</b>	2020E
689,430	628,074	669,408	741,806
_	_	_	_
3,600	3,600	3,600	3,600
693,030	631,674	673,008	745,406
117,160	120,540	123,972	126,731
44,280	44,280	44,280	44,280
_	_	_	_
460,740	393,614	429,516	497,154
389,770	300,811	328,523	385,442
211,100	215,248	235,975	251,209
140,130	122,445	134,982	139,496
71,240	73,240	75,240	77,240
693,420	631,674	673,008	745,406
	689,430 — 3,600 <b>693,030</b> 117,160 44,280 — 460,740 389,770 211,100 140,130 71,240	689,430 628,074	689,430         628,074         669,408           —         —         —           3,600         3,600         3,600           693,030         631,674         673,008           117,160         120,540         123,972           44,280         44,280         44,280           —         —         —           460,740         393,614         429,516           389,770         300,811         328,523           211,100         215,248         235,975           140,130         122,445         134,982           71,240         73,240         75,240

## Cash Flow Abstract (Rs m)

Y/e March	2017	2018	2019E	2020E
C/F from Operations	140,630	155,067	158,902	174,197
C/F from Investing	(170,670)	(22,000)	(22,000)	(22,000)
C/F from Financing	(69,390)	(221,076)	(109,190)	(95,278)
Inc. / Dec. in Cash	(99.430)	(88.009)	27.712	56.918

## Quarterly Financials (Rs m)

Y/e March	Q1FY18	Q2FY18	Q3FY18	Q4FY18
Net Revenue	170,780	175,670	177,940	180,830
EBITDA	45,610	47,020	48,170	49,300
% of revenue	26.7	26.8	27.1	27.3
Depr. & Amortization	4,500	4,560	4,980	4,580
Net Interest	(8,140)	(8,830)	(9,620)	(5,340)
Other Income	8,140	8,830	9,620	5,340
Profit before Tax	49,250	51,290	52,810	50,060
Total Tax	13,710	14,030	1,520	13,160
Profit after Tax	35,540	37,260	51,290	36,900
Adj. PAT	35,540	37,260	51,290	36,900

Source: Company Data, PL Research.

## **Key Financial Metrics**

,				
Y/e March	2017	2018	<b>2019E</b>	2020E
Growth				
Revenue (%)	9.7	3.0	9.7	8.1
EBITDA (%)	8.9	2.2	6.8	8.9
PAT (%)	6.4	11.7	(6.1)	11.4
EPS (%)	6.4	14.8	(4.0)	11.4
Profitability				
EBITDA Margin (%)	27.2	27.0	26.3	26.4
PAT Margin (%)	21.0	22.7	19.5	20.0
RoCE (%)	22.0	24.4	23.1	23.7
RoE (%)	22.0	24.3	23.2	23.8
Balance Sheet				
Net Debt : Equity	(0.6)	(0.5)	(0.5)	(0.5)
Net Wrkng Cap. (days)	_	_	_	_
Valuation				
PER (x)	18.6	16.2	16.9	15.2
P / B (x)	3.9	4.1	3.8	3.4
EV / EBITDA (x)	12.3	12.1	10.9	9.8
EV / Sales (x)	3.3	3.3	2.9	2.6
Earnings Quality				
Eff. Tax Rate	28.0	20.9	28.5	28.5
Other Inc / PBT	15.4	15.7	12.4	13.9

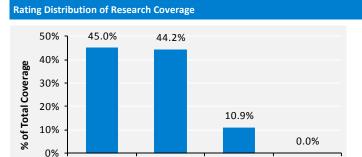
Source: Company Data, PL Research.



#### Prabhudas Lilladher Pvt. Ltd.

3rd Floor, Sadhana House, 570, P. B. Marg, Worli, Mumbai-400 018, India

Tel: (91 22) 6632 2222 Fax: (91 22) 6632 2209



Accumulate

#### **PL's Recommendation Nomenclature**

**BUY** : Over 15% Outperformance to Sensex over 12-months

Accumulate : Outperformance to Sensex over 12-months

**Reduce**: Underperformance to Sensex over 12-months

Sell : Over 15% underperformance to Sensex over 12-months

Trading Buy : Over 10% absolute upside in 1-month

Trading Sell : Over 10% absolute decline in 1-month

Not Rated (NR) : No specific call on the stock

Under Review (UR) : Rating likely to change shortly

#### DISCLAIMER/DISCLOSURES

#### **ANALYST CERTIFICATION**

We/I, Mr. Madhu Babu, BTech & PG MBA, Research Analysts, authors and the names subscribed to this report, hereby certify that all of the views expressed in this research report accurately reflect our views about the subject issuer(s) or securities. We also certify that no part of our compensation was, is, or will be directly or indirectly related to the specific recommendation(s) or view(s) in this report.

#### Terms & conditions and other disclosures:

BUY

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

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

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

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

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

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

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

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

Reduce

Sell

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

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

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

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

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

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

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

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

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

It is confirmed that Mr. Madhu Babu, BTech & PG MBA, Research Analysts of this report have not received any compensation from the companies mentioned in the report in the preceding twelve months

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

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

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

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

PL and its associates, their directors and employees may (a) from time to time, have a long or short position in, and buy or sell the securities of the subject company or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the subject company or act as an advisor or lender/borrower to the subject company or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.

#### **DISCLAIMER/DISCLOSURES (FOR US CLIENTS)**

#### ANALYST CERTIFICATION

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

#### Terms & conditions and other disclosures:

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

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

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

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