

HOLD
TP: Rs 4,170 | △ 3%

PERSISTENT SYSTEMS

Technology & Internet

27 October 2021

## **Growth outperformance continues**

- Stellar Q2 print with revenue growth of 9.3% QoQ USD (incl. Capiot)
   driven by BFSI and healthcare
- EBIT margin at 13.9% beat our/consensus estimates. TCV at a robust US\$ 282.5mn (+15% QoQ)
- We raise FY22/FY23 EPS and hike our target P/E to 40x. Revise TP to Rs 4,170 (vs. Rs 3,560) but retain HOLD as upsides look capped

Ruchi Burde | Seema Nayak researchreport@bobcaps.in

**Revenue well ahead of estimates:** PSYS reported revenue growth of 9.3% QoQ USD in Q2FY22 vs. our optimistic estimate of 7.4%. IP revenue grew 4.3% QoQ USD despite seasonality and services grew 10.1% QoQ. Growth was spread across three verticals, led by healthcare (+13% QoQ USD).

**Robust margin:** EBIT margin stood at 13.9% (+30bps QoQ) vs. 13.1% estimated. Offshoring continued to improve with 57.1% revenue share (+160bps QoQ). While offshore billing rates were up 0.5% QoQ, PSYS was able to reduce onsite billing by 2.7% due to lower cost in Mexico, aiding margins. Blended utilisation at 82.8% improved 270bps QoQ backed by talent deployment over the last couple of guarters.

**Attrition accelerates:** As the industry continues to reel under a talent crunch, PSYS reported its highest-ever attrition rate of 23.6% (+7ppt QoQ). To backfill this, PSYS inducted 975 employees QoQ. Management expects supply pressure to persist for the next few quarters. To contain attrition, PSYS has launched an ESOPs programme covering 80% of employees. Supply-side costs are expected to impact margins and hence PSYS is in talks with clients for better billing rates.

**Strong deal wins:** The pipeline is strong with TCV at US\$ 282.5mn in Q2, up 15% QoQ. ACV at US\$ 201.1mn was up 7% QoQ. The quarter saw key wins in the software, hi-tech, BFSI and healthcare verticals. The largest BFSI deal win was worth >US\$ 50mn in TCV, spread over a period of five years. PSYS added eight new clients in the US\$ 1mn-5mn revenue bucket and one in the >US\$ 5mn bucket.

**Maintain HOLD:** In line with sector-wide commentary, management is confident of demand growth for the next 2-3 years and indicated that its steady TCV win rate is directly proportional to revenue growth. Based on the buoyant outlook and contribution from acquired entities (SCI and Shree Partners), we raise FY22/FY23/FY24 revenue estimates by 4%/6%/5%. EPS rises only 6%/1%/1% due to lower USDINR estimates and a conservative margin outlook. We also upgrade our target P/E to 40x (vs. 35x) on steady deal wins and upbeat growth, yielding a new Sep'22 TP of Rs 4,170 – retain HOLD as current valuations of 39.7x FY23E price in the strong outlook.

### Key changes

Target	Rating	
<b>A</b>	< ▶	

Ticker/Price	PSYS IN/Rs 4,038
Market cap	US\$ 4.3bn
Free float	70%
3M ADV	US\$ 14.3mn
52wk high/low	Rs 4,390/Rs 1,103
Promoter/FPI/DII	30%/26%/44%

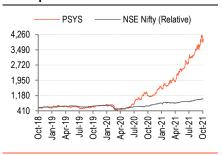
Source: NSE | Price as of 27 Oct 2021

### **Key financials**

Y/E 31 Mar	FY21A	FY22E	FY23E
Total revenue (Rs mn)	41,879	56,441	68,837
EBITDA (Rs mn)	6,830	9,034	11,193
Adj. net profit (Rs mn)	4,507	6,260	7,374
Adj. EPS (Rs)	56.5	78.5	92.4
Consensus EPS (Rs)	56.5	83.7	101.7
Adj. ROAE (%)	17.1	21.0	21.5
Adj. P/E (x)	71.5	51.5	43.7
EV/EBITDA (x)	47.1	35.5	28.6
Adj. EPS growth (%)	32.4	38.9	17.8

Source: Company, Bloomberg, BOBCAPS Research

### Stock performance



Source: NSE





## Other highlights

- PSYS's biggest IP account (IBM) will be transitioned from reseller business-based reporting to a TTM-based model. This will lead to reduced reported IP revenue and growth in IT services, driving a slight uptick in margin from Q3FY22.
- The company has launched an ESOP plan for ~80% of its employees. Management believes the estimated 70-80bps impact of ESOP expense on margins would be offset by increased employee participation, leading to a sense of ownership.
- The company aims to hire 2,500-3,000 freshers in the next one year.
- PSYS announced the acquisition of SCI, its affiliate Fusion 360, and Shree Partners in Sep'21. No revenue was registered in Q2FY22.
- Management plans to also expand its footprint in Canada and Mexico.
- DSO increased by 1 day QoQ to 55 days in Q2.

## **Details of acquired entities**

Software Corporation International (SCI): SCI has 30+ years of payments industry experience and brings deep domain consulting capabilities, specialising in payment solutions, integration, and support services for an impressive portfolio of leading US banks. Fusion360 provides application development, maintenance, and support for leading payment platforms including IBM's Financial Transaction Manager (FTM).

The total purchase consideration was US\$ 53mn, comprising US\$ 34mn upfront and the balance in earnouts (over two years) or retention (over three years). SCI has annual revenue of US\$ 17.1mn; the purchase consideration thus implies an EV/revenue multiple of 3.1x.

Shree Partners: Established in 2005, Shree Partners is a digital transformation and technology solutions company. It helps clients in BFSI and other industries increase profitability by implementing and maintaining innovative cloud, infrastructure, data, and AI/ML solutions that reduce costs and drive revenue.

The total purchase consideration was US\$ 6.9mn, comprising US\$ 3.4mn upfront and the balance in earnouts (over two years) or retention (over three years). Based on annual revenue of US\$ 7.6mn, the purchase consideration implies an EV/revenue multiple of 0.9x.



Fig 1 - Quarterly performance

(Rs mn)	Q2FY22	Q2FY21	YoY (%)	Q1FY22	QoQ (%)	H1FY22	H1FY21	YoY (%)
Revenue (US\$ mn)	182.3	136.1	34.0	166.8	9.3	349	267	30.7
Revenue	13,512	10,077	34.1	12,299	9.9	25,812	19,991	29.1
Operating Expenditure	11,268	8,420	33.8	10,284	9.6	21,552	16,869	27.8
Cost of revenues	8,982	6,577	36.6	8,173	9.9	17,155	13,223	29.7
as % of sales	66.5	65.3	-	66.5	-	66.5	66.1	-
SG&A expenses	2,286	1,843	24.1	2,111	8.3	4,397	3,646	20.6
as % of sales	16.9	18.3	-	17.2	-	17.0	18.2	-
EBITDA	2,244	1,658	35.4	2,015	11.4	4,259	3,122	36.4
Depreciation	371	440	(15.7)	350	5.9	721	875	(17.6)
EBIT	1,873	1,218	53.8	1,665	12.5	3,538	2,247	57.5
Other Income	303	157	-	366	-	669	349	-
PBT	2,176	1,375	58.3	2,031	7.2	4,207	2,596	62.1
Total Tax	559	355	57.3	518	7.9	1,077	676	59.4
Adjusted PAT	1,618	1,020	58.6	1,513	6.9	3,131	1,920	63.1
(Profit)/loss from JV's/Ass/MI	-	-	-	-	-	0	0	-
APAT after MI	1,618	1,020	58.6	1,513	6.9	3,131	1,920	63.1
Extra ordinary items	0	0	-	0	-	0	0	-
Reported PAT	1,618	1,020	58.6	1,513	6.9	3,131	1,920	63.1
Reported EPS	20.2	12.7	58.6	18.9	6.9	39	24	63.1
Margins (%)			(bps)		(bps)			
EBITDA	16.6	16.4	16	16.4	22	16.5	15.6	88
EBIT	13.9	12.1	178	13.5	32	13.7	11.2	247
EBT	16.1	13.6	246	16.5	(40)	16.3	13.0	332
PAT	12.0	10.1	185	12.3	(33)	12.1	9.6	252
Effective Tax rate	25.7	25.8	(16)	25.5	17	25.6	26.0	(44)
Source: Company BORCAPS Research								

Source: Company, BOBCAPS Research

Fig 2 – Operating metrics

(in LICD towns)	Q2FY22	Growth		
(in USD terms)	(% Contr. to Revenue)	QoQ (%)	YoY (%)	
Revenue by Geography				
North America	78.7	9.0	27.2	
Europe	8.8	1.2	55.1	
India, APAC	12.5	17.8	76.3	
Client Concentration				
Top Client	16.9	8.6	(12.9)	
Top 5 Clients	35.8	7.2	(13.9)	
Top 10 Clients	45.4	6.3	(10.1)	
Non Top 10 Clients	54.6	12.0	10.3	
Revenue by Vertical				
BFSI	30.7	8.9	28.9	
Healthcare and Lifesciences	21.2	13.0	47.1	
Tech. Cos. & Emerging Verticals	48.1	7.9	32.0	

# **PERSISTENT SYSTEMS**



	Q2FY22	Q1FY22	Q2FY21
Onsite-Offshore mix			
Onsite	30.4	31.4	33.1
Offshore	57.1	55.5	50.7
IP-led	12.5	13.1	16.2
Utilisation (%)	82.8	80.1	81.2
Headcount	15,879	14,904	10,820

Source: Company, BOBCAPS Research



# Valuation methodology

Incorporating the stellar Q2FY22 print, we raise FY22/FY23/FY24 EPS estimates by 6%/1%/1%, baking in higher revenue growth assumptions and contribution from acquired entities. The increase in EPS estimates is relatively muted given reduced USDINR assumptions and management's conservative margin outlook. PSYS's sustained growth momentum coupled with stable margins and regular TCV gives us confidence on earnings.

We increase our target one-year forward P/E from 35x to 40x, which is in line with our target multiple for L&T Infotech (LTI) – this yields a new Sep'22 TP of Rs 4,170 (vs. Rs 3,560 earlier). While we expect PSYS to maintain its strong growth momentum, we see limited upside at current valuations of 39.7x FY23E EPS and hence retain HOLD.

Fig 3 - Revised estimates

(Pa mn)		New			Old		(	Change (%)	
(Rs mn)	FY22E	FY23E	FY24E	FY22E	FY23E	FY24E	FY22E	FY23E	FY24E
Revenues (US\$ mn)	746.9	879.6	992.1	719.2	829.4	941.2	3.8	6.1	5.4
YoY growth (%)	31.9	17.8	12.8	27.0	15.3	13.5	-	-	-
Revenues	56,441	68,837	77,878	54,654	64,905	73,882	3.3	6.1	5.4
EBITDA	9,034	11,193	12,657	8,765	11,084	12,519	3.1	1.0	1.1
EBITDA margin (%)	16.0	16.3	16.3	16.0	17.1	16.9	-	-	-
Net profits	6,260	7,374	8,404	5,899	7,294	8,308	6.1	1.1	1.1
EPS (Rs)	78.5	92.4	105.4	74.0	91.4	104.2	6.1	1.1	1.1

Source: BOBCAPS Research

Fig 4 - Key assumptions

Parameter	FY21	FY22E	FY23E	FY24E
Revenues (US\$ mn)	566	747	880	992
Revenues growth YoY (%)	12.9	31.9	17.8	12.8
EBITDA margin (%)	16.3	16.0	16.3	16.3

Source: Company, BOBCAPS Research

Fig 5 - Peer comparison

Tieker	Ticker Rating Target Price		US\$ revenue CAGR	EPS (Rs)		RoE (%)		P/E (x)	
rickei	Kaung	(Rs)	FY21-23E (%)	FY22E	FY23E	FY22E	FY23E	FY22E	FY23E
TCS IN	BUY	4,630	13.8	103.4	119.7	39.4	37.4	33.7	29.1
INFO IN	BUY	2,000	14.4	53.9	59.5	29.6	30.7	32.1	29.1
WPRO IN	BUY	840	18.4	23.4	26.9	21.2	21.6	28.6	24.9
HCLT IN	BUY	1,440	10.7	49.1	55.2	20.3	20.5	24.0	21.3
TECHM IN	BUY	1,890	15.3	65.2	80.0	21.4	23.3	24.1	19.6
LTI IN	BUY	7,980	21.1	134.5	161.8	29.5	29.9	34.9	29.0
MPHL IN	HOLD	3,510	16.1	76.5	92.6	21.0	23.6	43.8	36.2
MTCL IN	SELL	3,390	21.0	94.1	100.2	33.0	29.8	48.7	45.7
PSYS IN	HOLD	4,170	24.7	78.5	92.4	21.0	21.5	51.7	43.9
COFORGE IN	BUY	6,680	27.1	125.6	172.0	28.4	32.8	40.1	29.3
ECLX IN	BUY	2,880	20.4	122.7	143.6	25.3	26.7	18.1	15.5

Source: BOBCAPS Research



# **Key risks**

Key upside risks to our estimates are:

- increase in annuity business, and
- above-expected operating margin improvement.

# **Sector recommendation snapshot**

Company	Ticker	Market Cap (US\$ bn)	Price (Rs)	Target (Rs)	Rating
Affle (India)	AFFLE IN	0.4	1,154	1,240	BUY
Coforge	COFORGE IN	4.2	5,043	6,680	BUY
eClerx Services	ECLX IN	1.1	2,213	2,880	BUY
HCL Technologies	HCLT IN	42.6	1,177	1,440	BUY
IndiaMart InterMesh	INMART IN	3.0	7,357	8,430	HOLD
Info Edge	INFOE IN	10.7	6,216	6,530	BUY
Infosys	INFO IN	98.1	1,729	2,000	BUY
Just Dial	JUST IN	0.7	821	1,190	BUY
L&T Infotech	LTI IN	15.6	6,659	7,980	BUY
Mindtree	MTCL IN	10.1	4,582	3,390	SELL
Mphasis	MPHL IN	8.3	3,352	3,510	HOLD
Persistent Systems	PSYS IN	4.3	4,038	4,170	HOLD
Tata Consultancy Services	TCS IN	174.5	3,490	4,630	BUY
Tech Mahindra	TECHM IN	18.2	1,568	1,890	BUY
Wipro	WPRO IN	49.4	671	840	BUY

Source: BOBCAPS Research, NSE | Price as of 27 Oct 2021



# **Financials**

Income Statement	FY20A	FY21A	FY22E	FY23E	FY24E
Y/E 31 Mar (Rs mn)					
Total revenue	35,658	41,879	56,441	68,837	77,878
EBITDA	4,930	6,830	9,034	11,193	12,657
Depreciation	1,660	1,756	1,599	1,854	1,938
EBIT	3,270	5,075	7,435	9,339	10,719
Net interest inc./(exp.)	0	0	0	0	0
Other inc./(exp.)	1,254	1,020	972	626	714
Exceptional items	0	0	0	0	0
EBT	4,523	6,094	8,408	9,965	11,433
Income taxes	1,121	1,588	2,148	2,591	3,030
Extraordinary items	0	0	0	0	0
Min. int./Inc. from assoc.	0	0	0	0	0
Reported net profit	3,403	4,507	6,260	7,374	8,404
Adjustments	0	0	0	0	0
Adjusted net profit	3,403	4,507	6,260	7,374	8,404
Balance Sheet					
Y/E 31 Mar (Rs mn)	FY20A	FY21A	FY22E	FY23E	FY24E
Accounts payables	0	0	0	0	0
Other current liabilities	3,810	4,607	6,031	7,355	8,321
Provisions	1,954	2,719	3,093	3,772	4,267
Debt funds	12	44	44	44	44
Other liabilities	0	0	0	0	0
Equity capital	791	764	764	764	764
Reserves & surplus	24,002	27,192	30,881	36,036	41,912
Shareholders' fund	24,793	27,957	31,645	36,801	42,676
Total liab. and equities	30,569	35,327	40,813	47,972	55,309
Cash and cash eq.	1,461	2,419	3,047	4,003	8,978
Accounts receivables	5,862	5,709	9,278	11,316	12,802
Inventories	0	0	0	0	0
Other current assets	5,373	4,945	6,495	8,864	10,028
Investments	13,304	17,853	17,853	19,853	19,853
Net fixed assets	4,083	3,277	3,327	3,123	2,835
CWIP	316	122	122	122	122
Intangible assets	81	86	86	86	86
Deferred tax assets, net	405	1,038	727	727	727
Other assets	0	0	0	0	0
Total assets	30,569	35,327	40,813	47,972	55,308
	•	•	,	•	,
Cash Flows Y/E 31 Mar (Rs mn)	FY20A	FY21A	FY22E	FY23E	FY24E
Cash flow from operations	2,025	5,679	3,565	6,199	8,439
Capital expenditures	(1,500)	(392)	(1,650)	(1,650)	(1,650)
Change in investments	(1,300)	(3,722)	(1,030)	(2,000)	(1,030)
Other investing cash flows	1,254	1,020	972	626	714
Cash flow from investing	(247)	(3,094)	(678)	(3,024)	(936)
Equities issued/Others	(828)	0	0	0	0
Debt raised/repaid	0	0	0	0	0
Interest expenses	0	(4.007)	(0.000)	0 (0.040)	(0.500)
Dividends paid	(1,229)	(1,627)	(2,260)	(2,219)	(2,528)
Other financing cash flows	0	0	0	0	
Cash flow from financing	(2,057)	(1,627)	(2,260)	(2,219)	(2,528)
Chg in cash & cash eq.	(278)	958	628	956	4,975
Closing cash & cash eq.	1,461	2,419	3,047	4,003	8,978

Per Share					
Y/E 31 Mar (Rs)	FY20A	FY21A	FY22E	FY23E	FY24E
Reported EPS	42.7	56.5	78.5	92.4	105.4
Adjusted EPS	42.7	56.5	78.5	92.4	105.4
Dividend per share	12.8	16.9	23.5	23.1	26.3
Book value per share	310.8	350.5	396.7	461.4	535.0
Valuations Ratios					
Y/E 31 Mar (x)	FY20A	FY21A	FY22E	FY23E	FY24E
EV/Sales	9.0	7.7	5.7	4.7	4.1
EV/EBITDA	65.1	47.1	35.5	28.6	25.2
Adjusted P/E	94.7	71.5	51.5	43.7	38.3
P/BV	13.0	11.5	10.2	8.8	7.5
DuPont Analysis					
Y/E 31 Mar (%)	FY20A	FY21A	FY22E	FY23E	FY24E
Tax burden (Net profit/PBT)	75.2	73.9	74.5	74.0	73.5
Interest burden (PBT/EBIT)	138.3	120.1	113.1	106.7	106.7
EBIT margin (EBIT/Revenue)	9.2	12.1	13.2	13.6	13.8
Asset turnover (Rev./Avg TA)	120.6	127.1	148.3	155.1	150.8
Leverage (Avg TA/Avg Equity)	1.2	1.2	1.3	1.3	1.3
Adjusted ROAE	14.1	17.1	21.0	21.5	21.1
Ratio Analysis					
Y/E 31 Mar	FY20A	FY21A	FY22E	FY23E	FY24E
YoY growth (%)					
Revenue	5.9	17.4	34.8	22.0	13.1
EBITDA	(15.1)	38.6	32.3	23.9	13.1
Adjusted EPS	(2.9)	32.4	38.9	17.8	14.0
Profitability & Return ratios (%)					
EBITDA margin	13.8	16.3	16.0	16.3	16.3
EBIT margin	9.2	12.1	13.2	13.6	13.8
Adjusted profit margin	9.5	10.8	11.1	10.7	10.8
Adjusted ROAE	14.1	17.1	21.0	21.5	21.1
ROCE	10.9	15.3	20.4	22.5	23.7
Working capital days (days)					
Receivables	55	50	48	55	57
Inventory	0	0	0	0	0
Payables	41	44	41	42	44
Ratios (x)					
Gross asset turnover	8.6	11.4	17.1	21.3	26.1
		4.0	0.4	0.0	0.5

Source: Company, BOBCAPS Research | Note: TA = Total Assets

2.2

NA

(0.1)

1.8

NA

(0.1)

2.1

NA

(0.1)

2.2

NA

(0.1)

2.5

NA

(0.2)

Current ratio

Net interest coverage ratio

Adjusted debt/equity



## **Disclaimer**

Recommendation scale: Recommendations and Absolute returns (%) over 12 months

BUY - Expected return >+15%

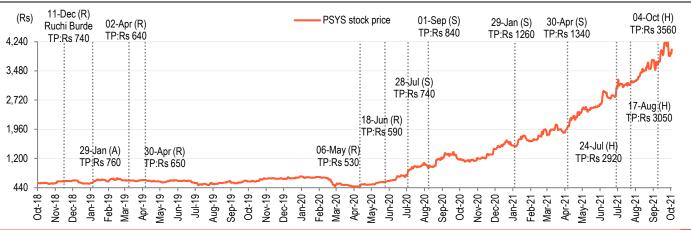
HOLD - Expected return from -6% to +15%

SELL - Expected return <-6%

Note: Recommendation structure changed with effect from 21 June 2021

Our recommendation scale does not factor in short-term stock price volatility related to market fluctuations. Thus, our recommendations may not always be strictly in line with the recommendation scale as shown above.

## Ratings and Target Price (3-year history): PERSISTENT SYSTEMS (PSYS IN)



B - Buy, H - Hold, S - Sell, A - Add, R - Reduce

### Rating distribution

As of 30 September 2021, out of 105 rated stocks in the BOB Capital Markets Limited (BOBCAPS) coverage universe, 48 have BUY ratings, 25 have HOLD ratings, 10 are rated ADD\*, 2 are rated REDUCE\* and 20 are rated SELL. None of these companies have been investment banking clients in the last 12 months. (\*Our ADD and REDUCE ratings are in the process of being migrated to the new recommendation structure.)

### Analyst certification

The research analyst(s) authoring this report hereby certifies that (1) all of the views expressed in this research report accurately reflect his/her personal views about the subject company or companies and its or their securities, and (2) no part of his/her compensation was, is, or will be, directly or indirectly, related to the specific recommendation(s) or view(s) in this report. Analysts are not registered as research analysts by FINRA and are not associated persons of BOBCAPS.

### General disclaimers

BOBCAPS is engaged in the business of Institutional Stock Broking and Investment Banking. BOBCAPS is a member of the National Stock Exchange of India Limited and BSE Limited and is also a SEBI-registered Category I Merchant Banker. BOBCAPS is a wholly owned subsidiary of Bank of Baroda which has its various subsidiaries engaged in the businesses of stock broking, lending, asset management, life insurance, health insurance and wealth management, among others.

BOBCAPS's activities have neither been suspended nor has it defaulted with any stock exchange authority with whom it has been registered in the last five years. BOBCAPS has not been debarred from doing business by any stock exchange or SEBI or any other authority. No disciplinary action has been taken by any regulatory authority against BOBCAPS affecting its equity research analysis activities.

BOBCAPS has obtained registration as a Research Entity under SEBI (Research Analysts) Regulations, 2014, having registration No.: INH000000040 valid till 03 February 2025. BOBCAPS is also a SEBI-registered intermediary for the broking business having SEBI Single Registration Certificate No.: INZ000159332 dated 20 November 2017. BOBCAPS CIN Number: U65999MH1996GOI098009.

BOBCAPS prohibits its analysts, persons reporting to analysts, and members of their households from maintaining a financial interest in the securities or derivatives of any companies that the analysts cover. Additionally, BOBCAPS prohibits its analysts and persons reporting to analysts from serving as an officer, director, or advisory board member of any companies that the analysts cover.

Our salespeople, traders, and other professionals may provide oral or written market commentary or trading strategies to our clients that reflect opinions 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 of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additionally, other important information regarding our relationships with the company or companies that are the subject of this material is provided herein.

#### PERSISTENT SYSTEMS



This material should not be construed as an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. We are not soliciting any action based on this material. It is for the general information of BOBCAPS's clients. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Before acting on any advice or recommendation in this material, clients should consider whether it is suitable for their particular circumstances and, if necessary, seek professional advice.

The price and value of the investments referred to in this material 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, future returns are not guaranteed and a loss of original capital may occur. BOBCAPS does not provide tax advice to its clients, and all investors are strongly advised to consult with their tax advisers regarding any potential investment in certain transactions — including those involving futures, options, and other derivatives as well as non-investment-grade securities —that give rise to substantial risk and are not suitable for all investors. The material is based on information that we consider reliable, but we do not represent that it is accurate or complete, and it should not be relied on as such. Opinions expressed are our current opinions as of the date appearing on this material only. We endeavour to update on a reasonable basis the information discussed in this material, but regulatory, compliance, or other reasons may prevent us from doing so.

We and our affiliates, officers, directors, and employees, including persons involved in the preparation or issuance of this material, may from time to time have "long" or "short" positions in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein and may from time to time add to or dispose of any such securities (or investment). We and our affiliates may act as market makers or assume an underwriting commitment in the securities of companies discussed in this document (or in related investments), may sell them to or buy them from customers on a principal basis, and may also perform or seek to perform investment banking or advisory services for or relating to these companies and may also be represented in the supervisory board or any other committee of these companies.

For the purpose of calculating whether BOBCAPS and its affiliates hold, beneficially own, or control, including the right to vote for directors, one per cent or more of the equity shares of the subject company, the holdings of the issuer of the research report is also included.

BOBCAPS and its non-US affiliates may, to the extent permissible under applicable laws, have acted on or used this research to the extent that it relates to non-US issuers, prior to or immediately following its publication. Foreign currency denominated securities are subject to fluctuations in exchange rates that could have an adverse effect on the value or price of or income derived from the investment. In addition, investors in securities such as ADRs, the value of which are influenced by foreign currencies, effectively assume currency risk. In addition, options involve risks and are not suitable for all investors. Please ensure that you have read and understood the Risk disclosure document before entering into any derivative transactions.

In the US, this material is only for Qualified Institutional Buyers as defined under rule 144(a) of the Securities Act, 1933. No part of this document may be distributed in Canada or used by private customers in the United Kingdom.

No part of this material may be (1) copied, photocopied, or duplicated in any form by any means or (2) redistributed without BOBCAPS's prior written consent.

#### Company-specific disclosures under SEBI (Research Analysts) Regulations, 2014

The research analyst(s) or his/her relatives do not have any material conflict of interest at the time of publication of this research report.

BOBCAPS or its research analyst(s) or his/her relatives do not have any financial interest in the subject company. BOBCAPS or its research analyst(s) or his/her relatives do not have actual/beneficial ownership of one per cent or more securities in the subject company at the end of the month immediately preceding the date of publication of this report.

The research analyst(s) has not received any compensation from the subject company in the past 12 months. Compensation of the research analyst(s) is not based on any specific merchant banking, investment banking or brokerage service transactions.

BOBCAPS or its research analyst(s) is not engaged in any market making activities for the subject company.

The research analyst(s) has not served as an officer, director or employee of the subject company.

BOBCAPS or its associates may have material conflict of interest at the time of publication of this research report.

BOBCAPS's associates may have financial interest in the subject company. BOBCAPS's associates may hold actual / beneficial ownership of one per cent or more securities in the subject company at the end of the month immediately preceding the date of publication of this report.

BOBCAPS or its associates may have managed or co-managed a public offering of securities for the subject company or may have been mandated by the subject company for any other assignment in the past 12 months.

BOBCAPS may have received compensation from the subject company in the past 12 months. BOBCAPS may from time to time solicit or perform investment banking services for the subject company. BOBCAPS or its associates may have received compensation from the subject company in the past 12 months for services in respect of managing or co-managing public offerings, corporate finance, investment banking or merchant banking, brokerage services or other advisory services in a merger or specific transaction. BOBCAPS or its associates may have received compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company in the past 12 months.