

DCB Bank

⊠DBS



Your success is our success

Refer to important disclosures at the end of this report

Loan growth and margins dip;

maintain Sell

- Amid slower loan growth (16% yoy) in Q4FY19, DCB Bank reported subdued NIMs (down 5bps goq to 3.78%). However, lower opex/provisions led to higher PAT at Rs963mn (up 50% yoy). For FY19, the bank reported profits of Rs3.3bn (up 33% yoy) and RoA of 1%.
- Despite an expected margin compression, it aspires for RoA>1% on better fees and lower cost-income ratio, in turn, led by slower branch expansion (15-20 p.a.) and improved employee productivity (business per employee of Rs110mn vs. Rs80mn currently).
- Near-term loan growth could be subdued, but the bank maintains its long-term stance of doubling its balance sheet every 3-3.5 years. With adequate Tier I at 13.1%, the bank would look to raise capital after six-nine months, depending on growth trajectory.
- We revise our earnings estimates by 3% for FY21, factoring in lower opex. Maintain Sell with a TP of Rs170 (based on 1.5x FY21E P/ABV) due to expensive valuations for a suboptimal RoA of 1%. Instead, we prefer City Union Bank in small and mid-cap space.
- Loan growth and margins dip: Loan growth slipped further to 16% yoy/3% gog from a high of 29% a year ago, with slowdown across business verticals and more so on the corporate front due to unwinding of short-term loans. The bank expects near-term growth to be subdued, given an increased focus on risk adjusted returns vs. growth, but guides for doubling its balance sheet over the next 3-3.5 years. NIMs declined 5bps qog/29bps yoy to 3.78%, mainly due to slower loan growth and higher cost of funds. The bank expects NIMs to slip further to 3.7-3.75% in FY20 due to likely MCLR reset and an elevated cost of funds.
- Asset quality improves qoq: Fresh slippages remain elevated at Rs1bn (1.9% of loans), however, higher reductions led to lower GNPAs to 1.84%. DCB's GNPA ratio in the vehicle loan segment grew to 2.9% vs. 2.5% a year ago, while in SME, it rose to 1.5% from a low of 1.3% The GNPA ratio in mortgages has now stabilized at 1.7%. DCB Bank believes that NPA ratios should settle around the current levels as GST/demonetization impact recedes.
- Outlook and valuations: We remain concerned about the bank's loan portfolio which is heavily skewed toward a relatively high-risk LAP. DCB has also considerably slowed down its opex growth to reduce cost ratios. However, in our view, the bank needs to rigorously invest in expanding liability franchise and sweat its vintage network to improve the otherwise weak liability profile. We believe that the stock is trading at expensive valuations (2.0x/1.8x FY20/FY21E ABV) for a relatively lower RoA of 1%. Key risks include higher-than-expected RoAs, led by lower margin compression, and better operating leverage.

Please see our sector EAP (Page 7): Emkay Alpha Portfolio - BFSI-Banks Financial Snapshot (Standalone)

(Rs mn)	FY17	FY18	FY19	FY20E	FY21E
Net income	10,465	13,057	14,995	17,495	21,062
Net profit	1,997	2,453	3,254	3,996	4,939
EPS (Rs)	7.0	8.3	10.5	12.9	16.0
ABV (Rs)	64.9	82.0	90.1	100.3	112.8
RoA (%)	0.9	0.9	1.0	1.0	1.0
RoE (%)	10.0	9.9	11.0	12.2	13.5
PE (x)	28.8	24.5	19.2	15.7	12.7
P/ABV	3.1	2.5	2.2	2.0	1.8

Source: Company, Emkay Research

CMP Rs 202 as of (April 18, 2019) **Target Price** Rs 170 (=)

Rating SELL (=)

Upside (15.8) %

Change in Estimates	
EPS Chg FY20E/FY21E (%)	-/(2.4)
Target Price change (%)	0.2
Target Period (Months)	12
Previous Reco	SELL
Emkov vo Concencue	

Emkay vs Consensus

Li o Latinatea							
	FY20E	FY21E					
Emkay	12.9	16.0					
Consensus	13.6	17.6					
Mean Consensus TF	Rs 210						
Stock Details							

FPS Estimates

Mean Consensus TP (12M)	KS 210
Stock Details	
Bloomberg Code	DCBB IN
Face Value (Rs)	10
Shares outstanding (mn)	310
52 Week H/L	209 / 140
M Cap (Rs bn/USD bn)	63 / 0.90
Daily Avg Volume (nos.)	2,066,329
Daily Avg Turnover (LIS\$ mn)	5.6

Snareholding Pattern Mar 19	
Promoters	14.9%
Fils	26.0%
DIIs	25.1%
Public and Others	34.0%

ushaldina Dattaus Mau I40

Price Performance									
(%)	1M	3M	6M	12M					
Absolute	1	9	26	3					
Rel. to Nifty	(2)	1	12	(8)					

Relative price chart



Source: Bloomberg

This report is solely produced by Emkay Global. The following person(s) are responsible for the production of the recommendation:

Anand Dama

anand.dama@emkayglobal.com +91 22 6624 2480

Shreesh Chandra

shreesh.chandra@emkayglobal.com +91 22 6612 1327

Exhibit 1: Actuals vs. Estimates

Rs mn	Actuala	Estimates		% V	ariation	Comments	
	Actuals		Consensus	Emkay	Consensus	Comments	
Net income	4,002	4,012	4,052	0%	-1%	Missed estimates due to lower margins	
PPOP	1,853	1,730	1,746	7%	6%	PPoP beat due to higher other income/lower opex	
PAT	963	836	875	15%	10%	Beat due to better PPoP and lower provisions	

Source: Company, Emkay Research

Exhibit 2: Quarterly Summary

Rs (mn)	4QFY18	1QFY19	2QFY19	3QFY19	4QFY19	yoy (%)	qoq (%)	FY19	FY20E	yoy (%)	FY21E	yoy (%)
Interest Earned	6,492	7,014	7,357	7,773	8,271	27	6	30,415	36,280	19	43,945	21
Interest Exp	3,855	4,285	4,538	4,837	5,262	37	9	18,922	22,786	20	27,602	21
Net Interest Income	2,637	2,730	2,818	2,936	3,009	14	2	11,493	13,495	17	16,343	21
Global NIMs (reported)	4.07	3.90	3.83	3.83	3.78	-29bps	-5bps	3.66	3.61	-4bps	3.61	0bps
Non-interest Income	849	828	735	945	994	17	5	3,502	4,001	14	4,719	18
Operating Expenses	2,070	2,144	2,092	2,143	2,150	4	0	8,529	9,473	11	10,922	15
Pre Provisioning Profit	1,416	1,414	1,461	1,738	1,853	31	7	6,466	8,022	24	10,140	26
Provision & Contingencies	388	332	319	401	348	-10	-13	1.401	1,875	34	2,541	36
PBT	1,028	1,082	1,142	1,336	1,505	46	13	5,065	6,147	21	7,599	24
Income Tax Expense (Gain)	386	387	408	475	542	40	14	1,812	2,152	19	2,660	24
Net Profit/(Loss)	642	695	734	861	963	50	12	3,254	3,996	23	4,939	24
Gross NPA (%)	1.79	1.86	1.84	1.92	1.84	5bps	-8bps	1.84	1.95	10bps	2.06	11bps
Net NPA (%)	0.72	0.72	0.70	0.71	0.65	-7bps	•	0.65	0.69	4bps	0.73	4bps
Deposits (Rs in bn)	240	250	262	275	284	18	3	284	349	23	432	24
Net Advances (Rs in bn)	203	212	221	229	236	16	3	236	287	22	359	25

Source: Company, Emkay Research

Exhibit 3: Revision in estimates

YE Mar (Rs mn)		FY20E		FY21E			
	Earlier	Revised	% change	Earlier	Revised	% change	
Net income	17,993	17,495	-2.76%	22,525	21,062	-6.49%	
PPOP	8,366	8,022	-4.11%	10,817	10,140	-6.25%	
PAT	3,990	3,996	0.15%	5,071	4,939	-2.60%	
EPS (Rs)	12.9	12.9	0.07%	16.4	16.0	-2.68%	
BV (Rs)	102.1	104.5	2.40%	116.4	118.4	1.72%	

Source: Company, Emkay Research

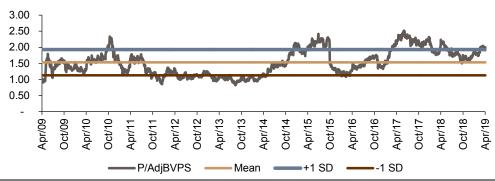
We revise our earnings estimates by 3% for FY21, factoring in lower operating expenses.

Exhibit 4: Key Assumptions

Key Assumptions	FY19A	FY20E	FY21E
Loan Growth %	15.9	21.9	24.9
Deposit Growth %	18.4	22.6	23.9
NIM %	3.7	3.6	3.6
GNPA %	1.8	1.9	2.1
Credit Cost %	0.9	0.8	0.8

Source: Company, Emkay Research

Exhibit 5: The stock currently trades at 1.9x 1-yr forward ABV



Source: Company, Emkay Research

Emikay Research is also available on www.emikayglobal.com, Bloomberg EMKAY<QO>, Reuters and DOWJONES. DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd,its respective connected and associated corporations and affiliates are the distributors of the research reports, please refer to the last page of the report on Restrictions on Distribution. In Singapore, this research report or research analyses may only be distributed to Institutional Investors, Expert Investors or Accredited Investors as defined in the Securities and Futures Act, Chapter 289 of Singapore

Exhibit 6: Key Financials

Particulars	40EV47	40EV49	20EV49	20EV40	40EV49	40EV40	20EV40	20EV40	40EV40
Loans Rs mn	4QFY17 158,176	1QFY18 162,657	2QFY18 173,950	3QFY18 185,952	4QFY18 203,367	1QFY19 212,434	2QFY19 220,688	3QFY19 228,884	4QFY19 235,680
Loan Growth yoy %	22.4	22.0	20.5	27.5	28.6	30.6	26.9	23.1	15.9
Loan Growth qoq %	8.5	2.8	6.9	6.9	9.4	4.5	3.9	3.7	3.0
Composition %	0.0	2.0	0.9	0.9	9.4	4.5	3.9	3.1	3.0
- Corporate	16.0	15.0	17.0	17.0	17.0	17.0	15.0	15.0	13.0
- SME/BB	12.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
- Retail & Others	54.0	57.0	54.0	54.0	53.0	53.0	54.0	54.0	55.0
- Agri	18.0	17.0	17.0	17.0	18.0	18.0	19.0	19.0	20.0
Liability Profile & Margin	10.0	17.0	17.0	17.0	10.0	10.0	19.0	19.0	20.0
CASA %	24.3	26.9	25.9	25.7	24.3	24.6	24.3	24.2	23.9
CASA %	8.0	8.1	7.5	6.4	7.6	5.7	5.4	5.1	5.0
SA %	16.3	18.8	18.4	19.2	16.7	19.0	18.9	19.1	19.0
Branches	262	290	306	311	318	323	328	331	333
	4.05	4.23	4.22	4.12	4.07	3.90	3.83	3.83	3.78
NIM (%)	4.05	4.23	4.22	4.12	4.07	3.90	3.03	3.03	3.70
Asset Quality									
GNPA	1.6	1.7	1.8	1.9	1.8	1.9	1.8	1.9	1.8
NNPA	0.8	0.9	0.9	0.9	0.7	0.7	0.7	0.7	0.7
PCR	51.1	47.7	50.3	54.4	60.2	61.6	62.1	63.3	65.0
Slippages (Rs mn)	746	887	779	1,031	814	1,074	972	1,143	985
Upgrades/Recoveries	393	331	473	576	667	680	700	630	822
Write-Offs	90	245	1	75	2	78	184	166	241
Annualized Slippages %	2.3	2.7	2.2	2.8	2.1	2.6	2.2	2.5	1.9
Capital Adequacy %	13.8	15.3	14.7	15.8	16.5	15.6	15.6	15.5	16.8
Tier I %	11.9	13.4	12.9	12.5	12.7	12.0	12.0	11.9	13.1
ROE Decomposition % (on Total Asset)									
NII	3.7	3.9	3.9	3.8	3.7	3.6	3.5	3.5	3.4
Other Income	1.0	0.9	0.9	1.0	1.1	0.9	0.9	1.0	1.0
Opex	2.8	3.0	3.0	3.1	2.9	2.8	2.6	2.6	2.5
PPOP	1.9	2.3	2.0	1.8	2.0	1.8	1.8	2.1	2.1
Provisioning Cost	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.5	0.4
РВТ	1.4	1.7	1.5	1.3	1.4	1.4	1.4	1.6	1.7
RoA	0.9	1.1	0.9	0.9	0.9	0.9	0.9	1.0	1.1
RoE	9.7	10.8	8.9	8.4	9.3	9.8	10.2	11.6	12.6

Source: Company, Emkay Research

Emkay Research is also available on www.emkayglobal.com, Bloomberg EMKAY<GO>, Reuters and DOWJONES. DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd, its respective connected and associated corporations and affiliates are the distributors of the research reports, please refer to the last page of the report on Restrictions on Distribution. In Singapore, this research report or research analyses may only be distributed to Institutional Investors, Expert Investors or Accredited Investors as defined in the Securities and Futures Act, Chapter 289 of Singapore

Key Financials (Standalone)

Income Statement

YE Mar (Rs mn)	FY17	FY18	FY19	FY20E	FY21E
Net interest income	7,971	9,954	11,493	13,495	16,343
Other income	2,495	3,103	3,502	4,001	4,719
Fee income	1,657	2,192	2,400	2,856	3,427
Net income	10,465	13,057	14,995	17,495	21,062
Operating expenses	6,283	7,807	8,529	9,473	10,922
Pre provision profit	4,182	5,250	6,466	8,022	10,140
PPP excl treasury	3,728	4,796	6,080	7,597	9,694
Provisions	1,115	1,388	1,401	1,875	2,541
Profit before tax	3,067	3,862	5,065	6,147	7,599
Tax	1,070	1,408	1,812	2,152	2,660
Tax rate	35	36	36	35	35
Profit after tax	1,997	2,453	3,254	3,996	4,939

Balance Sheet

YE Year End (Rs mn)	FY17	FY18	FY19	FY20E	FY21E
Equity	2,854	3,081	3,096	3,096	3,096
Reserves	19,010	24,720	28,061	31,458	35,656
Net worth	21,864	27,801	31,156	34,553	38,751
Deposits	192,892	240,069	284,351	348,505	431,802
Borrowings	10,392	12,401	21,366	20,090	24,108
Total liabilities	240,464	302,221	357,918	425,778	520,204
Cash and bank	8,583	11,364	13,172	12,514	13,139
Investments	58,179	62,190	78,441	89,009	108,516
Loans	158,176	203,367	235,680	287,334	358,896
Others	7,298	8,004	10,603	11,664	12,956
Total assets	240,464	302,221	357,918	425,778	520,204

Key Ratios (%)

YE Year End	FY17	FY18	FY19	FY20E	FY21E
NIM	3.9	3.9	3.7	3.6	3.6
Non-II/avg assets	1.2	1.1	1.1	1.0	1.0
Fee income/avg assets	0.8	0.8	0.7	0.7	0.7
Opex/avg assets	2.9	2.9	2.6	2.4	2.3
Provisions/avg assets	0.5	0.5	0.4	0.5	0.5
PBT/avg assets	1.4	1.4	1.5	1.6	1.6
Tax/avg assets	0.5	0.5	0.5	0.5	0.6
RoA	0.9	0.9	1.0	1.0	1.0
RoAE	10.0	9.9	11.0	12.2	13.5
GNPA (%)	1.6	1.8	1.8	1.9	2.1
NNPA (%)	0.8	0.7	0.7	0.7	0.7

Per Share Data (Rs)	FY17	FY18	FY19	FY20E	FY21E
EPS	7.0	8.3	10.5	12.9	16.0
BVPS	67.8	85.3	93.4	104.5	118.4
ABVPS	64.9	82.0	90.1	100.3	112.8
DPS	0.5	8.0	1.0	1.3	1.7

Valuations (x)	FY17	FY18	FY19	FY20E	FY21E
PER	28.8	24.5	19.2	15.7	12.7
P/BV	3.1	2.5	2.2	2.0	1.8
P/ABV	3.1	2.5	2.2	2.0	1.8
P/PPOP	13.8	11.9	9.7	7.8	6.2
Dividend Yield (%)	0.2	0.4	0.5	0.6	0.8
C					

Source: Company, Emkay Research

Emikay Research is also available on www.emikayglobal.com, Bloomberg EMIKAY<GO>, Reuters and DOWJONES. DBS Bank Ltd, DBS Vickers Securities (Singapore) Ple Ltd,its respective connected and associated corporations and affiliates are the distributors of the research reports, please refer to the last page of the report on Restrictions on Distribution. In Singapore, this research report or research analyses may only be distributed to Institutional Investors, Expert Investors or Accredited Investors as defined in the Securities and Futures Act, Chapter 289 of Singapore

Growth (%)	FY17	FY18	FY19	FY20E	FY21E
NII	28.7	24.9	15.5	17.4	21.1
PPOP	19.8	25.5	23.2	24.1	26.4
PAT	2.7	22.9	32.6	22.8	23.6
Loans	22.4	28.6	15.9	21.9	24.9

Quarterly (Rs mn)	Q4FY18	Q1FY19	Q2FY19	Q3FY19	Q4FY19
NII	2,637	2,730	2,818	2,936	3,009
NIM(%)	4.1	3.9	3.8	3.8	3.8
PPOP	1,416	1,414	1,461	1,738	1,853
PAT	642	695	734	861	963
EPS (Rs)	2.08	2.25	2.37	2.78	3.11

Source: Company, Emkay Research

Shareholding Pattern (%)	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19
Promoters	15.0	15.0	14.9	14.9	14.9
FIIs	21.3	22.1	24.2	23.6	26.0
DIIs	25.0	26.1	24.5	25.4	25.1
Public and Others	38.7	36.8	36.3	36.1	34.0

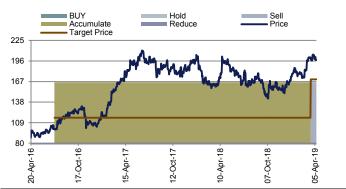
Source: Capitaline

RECOMMENDATION HISTORY TABLE

Date	Closing Price	TP	Period (months)	Rating	Analyst	
20-Mar-19	199	170	12m	Sell	Anand Dama	
18-Jul-16	100	116	12m	Accumulate	Sohail Halai	

Source: Company, Emkay Research

RECOMMENDATION HISTORY CHART



Source: Bloomberg, Company, Emkay Research

Note:

We have updated our Rating Distribution with effect from March 20, 2019 – <u>Kindly refer the Disclaimer page</u>, however for our erstwhile recommendations till March 19, 2019, the rating distribution of the expected total return stands as (**Buy** – Over 25%, **Accumulate** – Over 10%, **Hold** – Upto 10%, **Reduce** – Below 10%, **Sell** – Underperforms the broad market indices or its related universe).



Analyst: Anand Dama

0-	-44	D-4-	.:
L.O	ntaci	: Deta	IIIS

anand.dama@emkayglobal.com +91 22 6624 2480

Sector

Banks

Analyst bio

Anand Dama is a CA, CPM (ICFAI) with total 12 years of research experience, in addition to 3 years in the finance/rating industry. His team currently covers 21 banks and 15 stocks in the NBFC/Insurance space.

Emkay Alpha Portfolio – BFSI-Banks

EAP sector portfolio

Company Name	EAP Weight (Normalised)	EAP Weight	BSE200 Weight	OW/UW (%)	OW/UW (bps)
BFSI-Banks	100.00	23.19	23.19	0.0%	0
Axis Bank	11.41	2.65	2.25	18%	40
AU Small Finance Bank	0.10	0.02	0.05	-58%	-3
Bandhan Bank	0.40	0.09	0.10	-7%	-1
Bank of Baroda	0.25	0.06	0.19	-70%	-13
Canara Bank	0.00	0.00	0.09	-100%	-9
City Union Bank	1.20	0.28	0.25	11%	3
DCB Bank	0.00	0.00	0.00	NA	0
Equitas Holdings	0.00	0.00	0.00	NA	0
Federal Bank	1.29	0.30	0.30	0%	0
HDFC Bank	38.00	8.81	8.38	5%	43
ICICI Bank	21.70	5.03	4.21	20%	82
Indian Bank	0.15	0.03	0.04	-8%	0
Indusind Bank	5.30	1.23	1.45	-15%	-22
Karur Vysya Bank	0.00	0.00	0.00	NA	0
Kotak Mahindra Bank	10.80	2.50	2.64	-5%	-14
Punjab National Bank	0.00	0.00	0.16	-100%	-16
RBL Bank	0.60	0.14	0.35	-60%	-21
State Bank of India	7.50	1.74	1.88	-8%	-14
Ujjivan Financial Services	0.00	0.00	0.00	NA	0
Union Bank of India	0.00	0.00	0.06	-100%	-6
Yes Bank	1.30	0.30	0.78	-61%	-48
Cash	0.00	0.00	0.00	NA	0

Source: Emkay Research

■ High Conviction-Strong Over Weight ■ High Conviction-Strong Under Weight

Sector portfolio NAV

Returns by EAP on rolling basis	N.A	١V			
Performance	1-Apr-19	16-Apr-19	3m	6m	12m
BFSI-Banks	100.0	99.7			
BSE200 weighted	100.0	99.6			

^{*}Performance measurement base date 1st April 2019

Source: Emkay Research

Emkay Rating Distribution

Ratings	Expected Return within the next 12-18 months.
BUY	Over 15%
HOLD	Between -5% to 15%
SELL	Below -5%

Completed Date: 19 Apr 2019 03:16:01 (SGT) Dissemination Date: 19 Apr 2019 03:17:01 (SGT)

Sources for all charts and tables are Emkay Research unless otherwise specified.

GENERAL DISCLOSURE/DISCLAIMER BY EMKAY GLOBAL FINANCIAL SERVICES LIMITED (EGFSL):

Emkay Global Financial Services Limited (CIN-L67120MH1995PLC084899) and its affiliates are a full-service, brokerage, investment banking, investment management and financing group. Emkay Global Financial Services Limited (EGFSL) along with its affiliates are participants in virtually all securities trading markets in India. EGFSL was established in 1995 and is one of India's leading brokerage and distribution house. EGFSL is a corporate trading member of Bombay Stock Exchange Limited (BSE), National Stock Exchange of India Limited (NSE), MCX Stock Exchange Limited (MCX-SX). EGFSL along with its subsidiaries offers the most comprehensive avenues for investments and is engaged in the businesses including stock broking (Institutional and retail), merchant banking, commodity broking, depository participant, portfolio management, insurance broking and services rendered in connection with distribution of primary market issues and financial products like mutual funds, fixed deposits. Details of associates are available on our website i.e. www.emkayglobal.com

EGFSL is registered as Research Analyst with SEBI bearing registration Number INH000000354 as per SEBI (Research Analysts) Regulations, 2014. EGFSL hereby declares that it has not defaulted with any stock exchange nor its activities were suspended by any stock exchange with whom it is registered in last five years, except that NSE had disabled EGFSL from trading on October 05, October 08 and October 09, 2012 for a manifest error resulting into a bonafide erroneous trade on October 05, 2012. However, SEBI and Stock Exchanges have conducted the routine inspection and based on their observations have issued advice letters or levied minor penalty on EGFSL for certain operational deviations in ordinary/routine course of business. EGFSL has not been debarred from doing business by any Stock Exchange / SEBI or any other authorities; nor has its certificate of registration been cancelled by SEBI at any point of time.

EGFSL offers research services to clients as well as prospects. The analyst 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.

Other disclosures by Emkay Global Financial Services Limited (Research Entity) and its Research Analyst under SEBI (Research Analyst) Regulations, 2014 with reference to the subject company(s) covered in this report

EGFSL and/or its affiliates may seek investment banking or other business from the company or companies that are the subject of this material. Our salespeople, traders, and other professionals 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 may be 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 including but not limited to those stated herein. Additionally, other important information regarding our relationships with the company or companies that are the subject of this material is provided herein. 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 EGFSL or its group companies to any registration or licensing requirement within such jurisdiction. Specifically, this document does not constitute an offer to or solicitation to any U.S. person for the purchase or sale of any financial instrument or as an official confirmation of any transaction to any U.S. person. Unless otherwise stated, this message should not be construed as official confirmation of any transaction. No part of this document may be used by private customers in United Kingdom. All material presented in this report, unless specifically indicated otherwise, is under copyright to Emkay. None of the material, nor its content, nor any copy of it, may be altered in any way, transmitted to, copied or distributed to any other party, without the prior express written permission of EGFSL. All trademarks, service marks and logos used in this report are trademarks or registered trademarks of EGFSL or its Group Companies. The information contained herein is not intended for publication or distribution or circulation in any manner whatsoever and any unauthorized reading, dissemination, distribution or copying of this communication is prohibited unless otherwise expressly authorized. Please ensure that you have read "Risk Disclosure Document for Capital Market and Derivatives Segments" as prescribed by Securities and Exchange Board of India before investing in Indian Securities Market. In so far as this report includes current or historic information, it is believed to be reliable, although its accuracy and completeness cannot be guaranteed.

- This publication has not been reviewed or authorized by any regulatory authority. There is no planned schedule or frequency for updating research publication relating to any issuer.
- Please contact the primary analyst for valuation methodologies and assumptions associated with the covered companies or price targets

Disclaimer for U.S. persons only: This research report is a product of Emkay Global Financial Services Limited (Emkay), 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 Financial Institutions Regulatory Authority (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 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 the sender. Further, 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.

Emkay Research is also available on www.emkayglobal.com, Bloomberg EMKAY<GO>, Reuters and DOWJONES. DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd, its respective connected and associated corporations and affiliates are the distributors of the research report or research report or research analyses may only be distributed to Institutional Investors, Expert Investors or Accredited Investors as defined in the Securities and Futures Act, Chapter 289 of Singapore

GENERAL DISCLOSURE/DISCLAIMER BY DBS BANK LTD AS DISTRIBUTOR OF THE RESEARCH REPORT

This report is solely intended for the clients of DBS Bank Ltd,its respective connected and associated corporations and affiliates only and no part of this document may be (i) copied, photocopied or duplicated in any form or by any means or (ii) redistributed without the prior written consent of DBS Bank Ltd.

The research set out in this report is based on information obtained from sources believed to be reliable, but we (which collectively refers to DBS Bank Ltd, its respective connected and associated corporations, affiliates and their respective directors, officers, employees and agents (collectively, the "DBS Group") have not conducted due diligence on any of the companies, verified any information or sources or taken into account any other factors which we may consider to be relevant or appropriate in preparing the research. Accordingly, we do not make any representation or warranty as to the accuracy, completeness or correctness of the research set out in this report. Opinions expressed are subject to change without notice. This research is prepared for general circulation. Any recommendation contained in this document does not have regard to the specific investment objectives, financial situation and the particular needs of any specific addressee. This document is for the information of addressees only and is not to be taken in substitution for the exercise of judgement by addressees, who should obtain separate independent legal or financial advice. The DBS Group accepts no liability whatsoever for any direct, indirect and/or consequential loss (including any claims for loss of profit) arising from any use of and/or reliance upon this document and/or further communication given in relation to this document. This document is not to be construed as an offer or a solicitation of an offer to buy or sell any securities. The DBS Group, along with its affiliates and/or persons associated with any of them may from time to time have interests in the securities mentioned in this document. The DBS Group, may have positions in, and may effect transactions in securities mentioned herein and may also perform or seek to perform broking, investment banking and other banking services for these companies. Any valuations, opinions, estimates, forecasts, ratings or risk assessments herein constitutes a judgment as of the date of this report, and there can be no assurance that future results or events will be consistent with any such valuations, opinions, estimates, forecasts, ratings or risk assessments. The information in this document is subject to change without notice, its accuracy is not guaranteed, it may be incomplete or condensed, it may not contain all material information concerning the company (or companies) referred to in this report and the DBS Group is under no obligation to update the information in this report. This publication has not been reviewed or authorized by any regulatory authority in Singapore, Hong Kong or elsewhere. There is no planned schedule or frequency for updating research publication relating to any issuer.

The valuations, opinions, estimates, forecasts, ratings or risk assessments described in this report were based upon a number of estimates and assumptions and are inherently subject to significant uncertainties and contingencies. It can be expected that one or more of the estimates on which the valuations, opinions, estimates, forecasts, ratings or risk assessments were based will not materialize or will vary significantly from actual results. Therefore, the inclusion of the valuations, opinions, estimates, forecasts, ratings or risk assessments described herein IS NOT TO BE RELIED UPON as a representation and/or warranty by the DBS Group (and/or any persons associated with the aforesaid entities), that: (a) such valuations, opinions, estimates, forecasts, ratings or risk assessments or their underlying assumptions will be achieved, and (b) there is any assurance that future results or events will be consistent with any such valuations, opinions, estimates, forecasts, ratings or risk assessments stated therein. Please contact the primary analyst for valuation methodologies and assumptions associated with the covered companies or price targets. Any assumptions made in this report that refers to commodities, are for the purposes of making forecasts for the company (or companies) mentioned herein. They are not to be construed as recommendations to trade in the physical commodity or in the futures contract relating to the commodity referred to in this report.

DBSVUSA, a US-registered broker-dealer, does not have its own investment banking or research department, has not participated in any public offering of securities as a manager or co-manager or in any other investment banking transaction in the past twelve months and does not engage in market-making.

ANALYST CERTIFICATION BY EMKAY GLOBAL FINANCIAL SERVICES LIMITED (EGFSL)

The research analyst(s) primarily responsible for the content of this research report, in part or in whole, certifies that the views about the companies and their securities expressed in this report accurately reflect his/her personal views. The analyst(s) also certifies that no part of his/her compensation was, is, or will be, directly or indirectly, related to specific recommendations or views expressed in the report. The research analyst (s) primarily responsible of the content of this research report, in part or in whole, certifies that he or his associate does not serve as an officer, director or employee of the issuer or the new listing applicant (which includes in the case of a real estate investment trust, an officer of the management company of the real estate investment trust; and in the case of any other entity, an officer or its equivalent counterparty of the entity who is responsible for the management of the issuer or the new listing applicant). The research analyst(s) primarily responsible for the content of this research report or his associate does not have financial interests in relation to an issuer or a new listing applicant that the analyst reviews. EGFSL has procedures in place to eliminate, avoid and manage any potential conflicts of interests that may arise in connection with the production of research reports. The research analyst(s) responsible for this report operates as part of a separate and independent team to the investment banking function of the EGFSL and procedures are in place to ensure that confidential information held by either the research or investment banking function is handled appropriately. There is no direct link of EGFSL compensation to any specific investment banking function of the EGFSL.

Emkay Research is also available on www.emkayglobal.com, Bloomberg EMKAY<GO>, Reuters and DOWJONES. DBS Bank Ltd, DBS Vickers Securities (Singapore) Ple Ltd, its respective connected and associated corporations and affiliates are the distributors of the research report or research report or research analyses may only be distributed to Institutional Investors, Expert Investors or Accredited Investors as defined in the Securities and Futures Act, Chapter 289 of Singapore

ED: HEMANT MARADIA SA: DHANANJAY SINHA April 18, 2019 9

¹ An associate is defined as (i) the spouse, or any minor child (natural or adopted) or minor step-child, of the analyst; (ii) the trustee of a trust of which the analyst, his spouse, minor child (natural or adopted) or minor step-child, is a beneficiary or discretionary object; or (iii) another person accustomed or obliged to act in accordance with the directions or instructions of the analyst.

² Financial interest is defined as interest that are commonly known financial interest, such as investment in the securities in respect of an issuer or a new listing applicant, or financial accommodation arrangement between the issuer or the new listing applicant and the firm or analysis. This term does not include commercial lending conducted at the arm's length, or investments in any collective investment scheme other than an issuer or new listing applicant notwithstanding the fact that the scheme has investments in securities in respect of an issuer or a new listing applicant.

COMPANY-SPECIFIC / REGULATORY DISCLOSURES BY EMKAY GLOBAL FINANCIAL SERVICES LIMITED (EGFSL):

Disclosures by Emkay Global Financial Services Limited (Research Entity) and its Research Analyst under SEBI (Research Analyst) Regulations, 2014 with reference to the subject company(s) covered in this report-:

- 1. EGFSL, its subsidiaries and/or other affiliates do not have a proprietary position in the securities recommended in this report as of April 18, 2019
- 2. EGFSL, and/or Research Analyst does not market make in equity securities of the issuer(s) or company(ies) mentioned in this Research Report Disclosure of previous investment recommendation produced:
- 3. EGFSL may have published other investment recommendations in respect of the same securities / instruments recommended in this research report during the preceding 12 months. Please contact the primary analyst listed in the first page of this report to view previous investment recommendations published by EGFSL in the preceding 12 months.
- 4. EGFSL, its subsidiaries and/or other affiliates and Research Analyst or his/her relative's does not have any material conflict of interest in the securities recommended in this report as of April 18, 2019.
- EGFSL, its subsidiaries and/or other affiliates and Research Analyst or his/her relative's does not have actual/beneficial ownership of 1% or more securities of the subject company at the end of the month immediately preceding the April 18, 2019
- 6. EGFSL, its subsidiaries and/or other affiliates and Research Analyst have not received any compensation in whatever form including compensation for investment banking or merchant banking or brokerage services or for products or services other than investment banking or merchant banking or brokerage services from securities recommended in this report (subject company) in the past 12 months.
- 7. EGFSL, its subsidiaries and/or other affiliates and/or and Research Analyst have not received any compensation or other benefits from securities recommended in this report (subject company) or third party in connection with the research report.
- 8. Securities recommended in this report (Subject Company) has not been client of EGFSL, its subsidiaries and/or other affiliates and/or and Research Analyst during twelve months preceding the April 18, 2019

Emikay Research is also available on www.emkayglobal.com, Bloomberg EMKAY<GO>, Reuters and DOWJONES. DBS Bank Ltd, DBS Vickers Securities (Singapore) Ple Ltd, its respective connected and associated corporations and affiliates are the distributors of the research report or research report or research analyses may only be distributed to Institutional Investors, Expert Investors or Accredited Investors as defined in the Securities and Futures Act, Chapter 289 of Singapore

COMPANY-SPECIFIC / REGULATORY DISCLOSURES BY DBS BANK LTD AS DISTRIBUTOR OF THE RESEARCH REPORT

- 1. DBS Bank Ltd., DBS HK, DBS Vickers Securities (Singapore) Pte Ltd ("DBSVS") or their subsidiaries and/or other affiliates do not have a proprietary position in the securities recommended in this report as of 30 Apr 2018.
- 2. Neither DBS Bank Ltd nor DBS HK market makes in equity securities of the issuer(s) or company(ies) mentioned in this Research Report.

Compensation for investment banking services:

3. DBSVUSA, does not have its own investment banking or research department, nor has it participated in any public offering of securities as a manager or co-manager or in any other investment banking transaction in the past twelve months. Any US persons wishing to obtain further information, including any clarification on disclosures in this disclaimer, or to effect a transaction in any security discussed in this document should contact DBSVUSA exclusively.

Disclosure of previous investment recommendation produced:

4. DBS Bank Ltd. DBS Vickers Securities (Singapore) Pte Ltd ("DBSVS"), their subsidiaries and/or other affiliates may have published other investment recommendations in respect of the same securities / instruments recommended in this research report during the preceding 12 months. Please contact the primary analyst listed in the first page of this report to view previous investment recommendations published by DBS Bank Ltd. DBS Vickers Securities (Singapore) Pte Ltd ("DBSVS"), their subsidiaries and/or other affiliates in the preceding 12 months.

RESTRICTIONS ON DISTRIBUTION

General	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.
Australia	This report is not for distribution into Australia.
Hong Kong	This report is not for distribution into Hong Kong.
Indonesia	This report is being distributed in Indonesia by PT DBS Vickers Sekuritas Indonesia.
Malaysia	This report is not for distribution into Malaysia.
Singapore	This report is distributed in Singapore by DBS Bank Ltd (Company Regn. No. 16800306E) or DBSVS (Company Regn. No. 1860024G) both of which are Exempt Financial Advisers as defined in the Financial Advisers Act and regulated by the Monetary Authority of Singapore. DBS Bank Ltd and/or DBSVS, may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an agreement under Regulation 32C of the financial Advisers Regulations. Singapore recipients should contact DBS Bank Ltd at 6327 2288 for matters arising from, or in connection with the report.
Thailand	This report is being distributed in Thailand by DBS Vickers Securities (Thailand) Co Ltd.
United Kingdom	This report is disseminated in the United Kingdom by DBS Vickers Securities (UK) Ltd, ("DBSVUK"). DBSVUK is authorised and regulated by the Financial Conduct Authority in the United Kingdom. In respect of the United Kingdom, this report is solely intended for the clients of DBSVUK, its respective connected and associated corporations and affiliates only and no part of this document may be (i) copied, photocopied or duplicated in any form or by any means or (ii) redistributed without the prior written consent of DBSVUK. This communication is directed at persons having professional experience in matters relating to investments. Any investment activity following from this communication will only be engaged in with such persons. Persons who do not have professional experience in matters relating to investments should not rely on this communication.
Dubai International Financial Centre	This research report is being distributed by DBS Bank Ltd., (DIFC Branch) having its office at units 608-610, 6th Floor, Gate Precinct Building 5, PO Box 506538, Dubai International Financial Centre (DIFC), Dubai, United Arab Emirates. DBS Bank Ltd., (DIFC Branch) is regulated by The Dubai Financial Services Authority. This research report is intended only for professional clients (as defined in the DFSA rulebook) and no other person may act upon it.
United Arab Emirates	This report is provided by DBS Bank Ltd (Company Regn. No. 196800306E) which is an Exempt Financial Adviser as defined in the Financial Advisers Act and regulated by the Monetary Authority of Singapore. This report is for information purposes only and should not be relied upon or acted on by the recipient or considered as a solicitation or inducement to buy or sell any financial product. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situation, or needs of individual clients. You should contact your relationship manager or investment adviser if you need advice on the merits of buying, selling or holding a particular investment. You should note that the information in this report may be out of date and it is not represented or warranted to be accurate, timely or complete. This report or any portion thereof may not be reprinted, sold or redistributed without our written consent.
United States	DBSVUSA did not participate in its preparation. The research analyst(s) named on this report are not registered as research analysts with FINRA and are not associated persons of DBSVUSA. The research analyst(s) are not subject to FINRA Rule 2241 restrictions on analyst compensation, communications with a subject company, public appearances and trading securities held by a research analyst. This report is being distributed in the United States by DBSVUSA, which accepts responsibility for its contents. This report may only be distributed to Major U.S. Institutional Investors (as defined in SEC Rule 15a-6) and to such other institutional investors and qualified persons as DBSVUSA may authorize. Any U.S. person receiving this report who wishes to effect transactions in any securities referred to herein should contact DBSVUSA directly and not its affiliate.
Other jurisdictions	In any other jurisdictions, except if otherwise restricted by laws or regulations, this report is intended only for qualified, professional, institutional or sophisticated investors as defined in the laws and regulations of such jurisdictions.

Emkay Global Financial Services Ltd.

CIN - L67120MH1995PLC084899

7th Floor, The Ruby, Senapati Bapat Marg, Dadar - West, Mumbai - 400028. India Tel: +91 22 66121212 Fax: +91 22 66121299 Web: www.emkayglobal.com

Emkay Research is also available on www.emkayglobal.com, Bloomberg EMKAY<GO>, Reuters and DOWJONES. DBS Bank Ltd, DBS Vickers Securities (Singapore) Pte Ltd its respective connected and associated corporations and affiliates are the distributors of the research reports, please refer to the last page of the report on Restrictions on Distribution. In Singapore, this research report or research analyses may only be distributed to Institutional Investors, Expert Investors or Accredited Investors as defined in the Securities and Futures Act, Chapter 289 of Singapore

SINGAPORE

DBS Bank Ltd

Contact: Janice Chua

12 Marina Boulevard, Marina Bay Financial Centre Tower 3

Singapore 018982 Tel. 65-6878 8888 Fax: 65 65353 418

e-mail: equityresearch@dbs.com Company Regn. No. 196800306E

THAILAND

DBS Vickers Securities (Thailand) Co Ltd

Contact: Chanpen Sirithanarattanakul 989 Siam Piwat Tower Building,

9th, 14th-15th Floor

Rama 1 Road, Pathumwan, Nagkok Thailand 10330 Tel. 66 2 857 7831

Fax: 66 2 658 1269 e-mail: research@th.dbs.com

Company Regn. No 0105539127012

Securities and Exchange Commission, Thailand

INDONESIA

PT DBS Vickers Sekuritas (Indonesia)

Contact: Maynard Priajaya Arif

DBS Bank Tower Ciputra World 1, 32/F JI. Prof. Dr. Satrio Kav. 3-5 Jakarta 12940, Indonesia Tel. 62 21 3003 4900

Fax: 62 21 3003 4943

e-mail: research@id.dbsvickers.com



Anand Dama, CA, CPM anand.dama@emkayglobal.com +91 22 6624 2480