Result Update

Karur Vysya Bank



Refer to important disclosures at the end of this report

Improving return profile, healthy dividend yield and cheap valuations make it an attractive Buy

CMP Target Price Rs 72 (■) Rs 45 as of (May 20, 2022)

Rating BUY (■) **Upside** 61.8 %

- KVB reported a strong PAT beat (Rs2.1bn vs. estimate of Rs1.4bn) in Q4, mainly driven by lower LLP and opex. After the clean-up in FY18-20, the bank has seen steady improvement in its GNPA ratio to ~6% on higher w-offs/recoveries. The RoA has also improved from the lows of 0.3-0.5% to a high of 0.9% in FY22.
- Overall credit growth was relatively moderate at 10% yoy amid the bank's conscious strategy to de-focus from consortium-based large corporate lending, which was the key source of asset-quality trouble in the past. The bank has guided for 12% growth in FY23 with an upward bias. As a differentiated strategy, it has created a consumer banking department, headed by a senior executive, to specifically focus on retail asset/liability.
- We have revised our FY23/24 earnings estimates by 8%/4% and have introduced FY25 estimates. We expect the bank to report a steady improvement in its RoA/RoE profile to 1-1.2%/11-13% with an upward potential, subject to improvement in its otherwise sub-par operating leverage.
- We maintain Buy on KVB with a TP of Rs72, valuing it at 0.7x Mar'24E ABV. KVB is trading at a cheap valuation of 0.4x FY24E ABV. After recovering from past asset-quality issues and management volatility, and seeing steady improvement in return ratios (RoAs >1% from FY24E) with best-in-class capital profile (Tier I >17.5%), the stock offers an attractive play in the small-cap banking space. Higher dividend yield of 4-6% adds to the comfort.

Corporate remains a drag; the emphasis remains on accelerating retail growth: Overall loan growth improved to 10% yoy, backed by growth in the commercial and agri books. Retail book growth remained decent at 8% yoy, mainly driven by mortgages, housing and jewel loans. The bank has guided for 12% growth in FY23 with an upward bias, depending on retail acceleration. The bank claims that it does not see any asset-quality risk from the current crisis in Sri Lanka. As a differentiated business strategy, KVB has created a separate consumer banking unit, which will house retail assets, retail liabilities, 3rd party products business, which we believe will improve the bank's retail orientation and long-term RoA sustainability.

Steady improvement in NPA ratios; need to focus on higher relapse from restructured pool: Fresh slippages were higher at Rs3bn (2.4% of loans). However, higher w-offs and recoveries led to a 100bps gog improvement in the GNPA ratio at 6%. The specific PCR declined to 63%, mainly due to heavy w-offs. However, the bank is determined to maintain a healthy PCR of >65%. The restructured pool remained largely flat gog at 2.9% of loans, and except for real-estate, all other sectors witnessed a reduction in stress. KVB has guided for net negative slippages for FY23, which, in our view, is achievable given moderating slippages, improving recoveries and hopes around some lumpy corporate resolutions. The bank intends to bring its NNPA below 2% from 2.3% in FY23.

Outlook and valuations: We expect the bank to report a steady improvement in its RoA/RoE profile to 1-1.2%/11-13%, with an upward potential, subject to improvement in its otherwise sub-par operating leverage. Retain Buy rating with a TP of Rs72, valuing the bank at 0.7x Mar'24E ABV. The key risks to our call/estimates include higher NPA formation, mainly in the SME portfolio, and a delay in credit growth revival.

Please see our sector model portfolio (Emkay Alpha Portfolio): BFSI-Banks (Page 8)

Financial Snapshot (Standalone)

(Rs mn)	FY21	FY22	FY23E	FY24E	FY25E
Net income	32,782	34,844	38,219	43,199	49,719
Net profit	3,593	6,733	8,348	10,177	12,457
EPS (Rs)	4.5	8.4	10.4	12.7	15.6
ABV (Rs)	71.0	82.0	91.6	103.0	117.2
RoA (%)	0.5	0.9	1.0	1.1	1.2
RoE (%)	5.3	9.3	10.6	11.8	13.1
PE (x)	9.9	5.3	4.3	3.5	2.9
P/ABV This report is leter	0.6	0.5	0.5	0.4	0.4

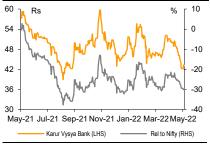
Change in Estimates	
EPS Chg FY23E/FY24E (%)	7.7/4.3
Target Price change (%)	-
Target Period (Months)	12
Previous Reco	BUY
Emkay vs Consensus	

EPS Estimates						
	FY23E	FY24E				
Emkay	10.4	12.7				
Consensus	9.8	12.1				
Mean Consensus TP (1	2M)	Rs 81				
Stock Details						
Bloomberg Code		KVB IN				
Face Value (Rs)		2				
Shares outstanding (mn	1)	799				
52 Week H/L		61 / 38				
M Cap (Rs bn/USD bn)		36 / 0.46				
Daily Avg Volume (nos.))	3,351,505				
Daily Avg Turnover (US	\$ mn)	2.1				

Shareholding Pattern Mar '22	
Promoters	2.3%
FIIs	15.4%
DIIs	21.9%
Public and Others	60.5%

Price Performance									
(%)	1M	3M	6M	12M					
Absolute	(11)	(14)	(16)	(21)					
Rel. to Nifty	(6)	(9)	(8)	(28)					

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

Heet Khimawat

heet.khimawat@emkayglobal.com +91 22 6612 1275

Dixit Sankharva

dixit.sankharva@emkayglobal.com +91 22 6612 1281

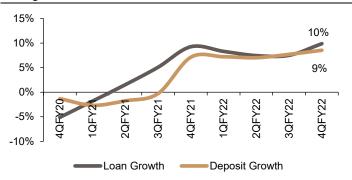
Soumya Jain

soumya.jain@emkayglobal.com 5/23/2099 22,6612 1262

Source: Company, Emkay Research

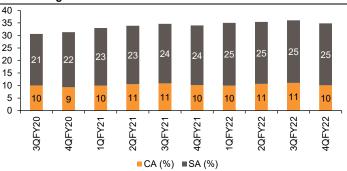
Story in Charts

Exhibit 1: Credit growth improved backed by growth in commercial and Agri book



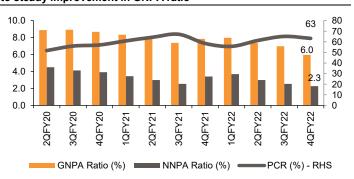
Source: Company, Emkay Research

Exhibit 3: CASA ratio slipped a bit due to moderation in CA deposits and faster growth in TD



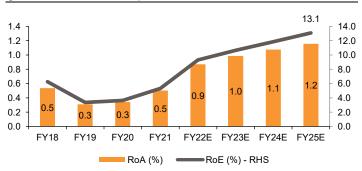
Source: Company, Emkay Research

Exhibit 5: Elevated slippages offset by higher recoveries/w-offs led to steady improvement in GNPA ratio



Source: Company, Emkay Research

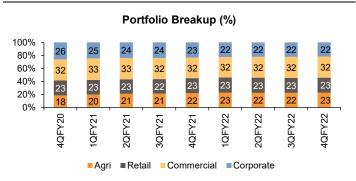
Exhibit 7: Steady improvement in return ratios led by better growth/NIMs, contained opex and lower LLP



Source: Company, Emkay Research

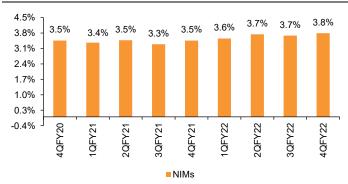
This report is intended for team.emkay@whitemarquesolutions.com use and downloaded at 05/23/2022 03:18 PM

Exhibit 2: Portfolio movement is in line with the bank's strategy to reduce share of lumpy corporate book



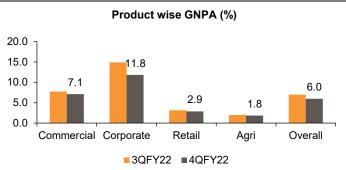
Source: Company, Emkay Research

Exhibit 4: Lower interest reversals/CoF led to marginal improvement in margins



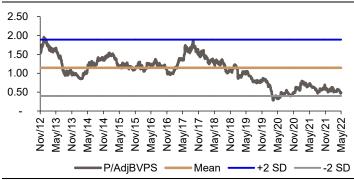
Source: Company, Emkay Research

Exhibit 6: Corporate and commercial stress is now behind, leading to improvement in segmental NPAs



Source: Company, Emkay Research

Exhibit 8: The stock currently trades at near trough valuations



Source: Bloomberg, Emkay Research

Exhibit 9: Actuals vs. Estimates (Q4FY22)

Rs mn	Actuals	Estimates		%	Variation	Comments
		Emkay	Consensus	Emkay	Consensus	
Net income	9,154	9,215	9,078	-1%	1%	Lower NII led to a miss
PPOP	4,413	4,085	3,948	8%	12%	Lower opex led to better PPoP
PAT	2,135	1,415	1,949	51%	10%	Contained LLP leads to a beat

Source: Company, Emkay Research

Exhibit 10: Quarterly summary

Rs (mn)	4QFY21	1QFY22	2QFY22	3QFY22	4QFY22	YoY (%)	QoQ (%)	FY22	FY23E	YoY (%)
Interest Earned	13,493	13,759	13,980	14,045	14,093	4	0	55,877	62,102	11
Interest Exp	7,367	7,380	7,176	7,173	6,993	-5	-3	28,723	32,081	12
Net Interest Income	6,126	6,379	6,803	6,872	7,099	16	3	27,154	30,021	11
Global NIMs (reported)	3.46	3.55	3.74	3.68	3.79	33bps	11bps	3.69	3.73	4bps
Non-interest Income	1,691	2,010	1,631	1,956	2,055	22	5	7,691	8,198	7
Operating Expenses	5,793	4,293	4,696	4,813	4,741	-18	-1	18,542	20,112	8
Pre Provisioning Profit	2,024	4,096	3,738	4,016	4,413	118	10	16,302	18,108	11
Provision & Contingencies	241	2,450	1,642	1,461	1,401	482	-4	6,993	6,951	-1
PBT	1,783	1,646	2,097	2,555	3,012	69	18	9,309	11,156	20
Income Tax Expense (Gain)	740	557	442	700	877	19	25	2,577	2,808	9
Net Profit/(Loss)	1,044	1,089	1,655	1,855	2,135	105	15	6,733	8,348	24
Gross NPA (%)	7.85	7.97	7.38	6.97	5.96	-189bps	-101bps	5.97	5.05	-92bps
Net NPA (%)	3.41	3.69	2.99	2.55	2.28	-113bps	-27bps	2.28	1.83	-45bps
Deposits (Rs bn)	633	644	654	669	687	9	3	687	771	12
Net Advances (Rs bn)	504	500	514	532	553	10	4	553	620	12

Source: Company, Emkay Research

Exhibit 11: Revision in estimates

Y/E Mar (Rs mn)		FY23E			FY24E		FY25E
	Earlier	Revised	% change	Earlier	Revised	% change	Introduced
Net income	39,277	38,219	-2.7%	45,254	43,199	-4.5%	49,719
PPOP	18,328	18,108	-1.2%	21,707	20,730	-4.5%	24,563
PAT	7,745	8,348	7.8%	9,750	10,177	4.4%	12,457
EPS (Rs)	9.7	10.4	7.7%	12.2	12.7	4.3%	15.6
BV (Rs)	101.8	102.2	0.5%	112.0	112.6	0.5%	125.5

Source: Company, Emkay Research

Exhibit 12: Key assumptions

	FY22A	FY23E	FY24E	FY25E
Loan Growth %	9.9	12.1	13.5	16.5
Deposit Growth %	8.5	12.3	12.8	15.4
NIM %	3.7	3.7	3.8	3.8
GNPA %	6.0	5.1	4.3	3.5
Credit Cost %	1.3	1.1	1.0	1.0

Source: Company, Emkay Research

Exhibit 13: Key ratios and trends

	4QFY20	1QFY21	2QFY21	3QFY21	4QFY21	1QFY22	2QFY22	3QFY22	4QFY22
Loans (Rs mn)	460,981	461,310	478,218	495,120	503,635	499,620	513,813	532,270	553,346
Growth YoY %	(5.1)	(1.8)	1.5	5.1	9.3	8.3	7.4	7.5	9.9
Growth QoQ %	(2.2)	0.1	3.7	3.5	1.7	(8.0)	2.8	3.6	4.0
Liability Profile & Margins									
Deposits (Rs mn)	590,751	600,650	611,224	620,900	632,784	643,980	654,101	668,710	686,762
Growth YoY %	(1.3)	(2.7)	(1.8)	(0.3)	7.1	7.2	7.0	7.7	8.5
Growth QoQ %	(5.1)	1.7	1.8	1.6	1.9	1.8	1.6	2.2	2.7
CASA %	31.3	33.0	33.9	34.6	34.2	35.0	35.4	36.1	34.8
CA %	9.3	10.0	10.6	10.9	10.2	10.0	10.7	11.1	10.1
SA %	22.0	23.0	23.3	23.8	24.0	25.0	24.8	25.0	24.7
Branches	779	779	780	780	780	781	781	781	789
NIM	3.46	3.36	3.47	3.29	3.46	3.55	3.74	3.68	3.79
Asset Quality									
GNPA	8.7	8.3	7.9	7.4	7.9	8.0	7.4	7.0	6.0
NNPA	3.9	3.4	3.0	2.6	3.4	3.7	3.0	2.6	2.3
PCR	57.1	60.9	64.3	67.1	58.5	55.7	61.3	65.1	63.3
Capital Adequacy									
CRAR %	17.2	18.1	18.4	18.5	19.0	19.1	18.8	18.8	19.5
Tier I %	15.3	16.1	16.4	16.5	17.0	17.0	16.8	16.8	17.5
ROE Decomposition %									
NII	4.1	3.3	3.5	3.2	3.3	3.4	3.6	3.6	3.6
Other Income	1.5	0.8	0.9	1.1	0.9	1.1	0.9	1.0	1.0
Opex	3.0	2.4	2.5	3.2	3.1	2.3	2.5	2.5	2.4
PPOP	3.5	2.8	2.6	1.4	1.1	2.2	2.0	2.1	2.2
Provisioning Cost	3.0	2.0	1.6	1.1	0.1	1.3	0.9	0.8	0.7
PBT	0.5	0.8	0.9	0.3	1.0	0.9	1.1	1.3	1.5
ROA	0.6	0.6	0.7	0.2	0.6	0.6	0.9	1.0	1.1
ROE	5.1	6.3	6.8	2.0	6.0	6.2	9.3	10.2	11.4

Source: Company, Emkay Research

Key Financials (Standalone)

Income Statement

Y/E Mar (Rs mn)	FY21	FY22	FY23E	FY24E	FY25E
Net interest income	23,594	27,154	30,021	34,090	39,319
Other income	9,188	7,691	8,198	9,109	10,400
Fee income	5,482	6,340	6,974	7,811	8,983
Net income	32,782	34,844	38,219	43,199	49,719
Operating expenses	19,868	18,542	20,112	22,469	25,156
Pre provision profit	12,914	16,302	18,108	20,730	24,563
PPP excl treasury	9,366	15,593	17,611	20,233	24,041
Provisions	7,571	6,993	6,951	7,130	7,916
Profit before tax	5,343	9,309	11,156	13,600	16,647
Tax	1,750	2,577	2,808	3,423	4,190
Tax rate	33	28	25	25	25
Profit after tax	3,593	6,733	8,348	10,177	12,457

Balance Sheet

Y/E Year End (Rs mn)	FY21	FY22	FY23E	FY24E	FY25E
Equity	1,599	1,600	1,600	1,600	1,600
Reserves	67,999	74,362	81,065	89,279	99,614
Net worth	69,597	75,962	82,665	90,879	101,214
Deposits	632,784	686,762	771,270	870,328	1,004,541
Borrowings	20,413	11,891	13,080	14,388	15,827
Total liabilities	746,232	800,437	891,651	1,001,702	1,151,952
Cash and bank	31,241	35,943	37,761	39,854	42,884
Investments	160,185	172,161	188,662	207,454	232,261
Loans	503,635	553,346	620,128	703,853	819,676
Others	13,819	20,884	24,711	29,332	35,004
Total assets	746,232	800,437	891,651	1,001,702	1,151,952

Key Ratios (%)

Y/E Year End	FY21	FY22	FY23E	FY24E	FY25E
NIM	3.5	3.7	3.7	3.8	3.8
Non-II/avg assets	1.3	1.0	1.0	1.0	1.0
Fee income/avg assets	0.8	8.0	0.8	0.8	0.8
Opex/avg assets	2.8	2.4	2.4	2.4	2.3
Provisions/avg assets	1.1	0.9	0.8	0.8	0.7
PBT/avg assets	0.7	1.2	1.3	1.4	1.5
Tax/avg assets	0.2	0.3	0.3	0.4	0.4
RoA	0.5	0.9	1.0	1.1	1.2
RoAE	5.3	9.3	10.6	11.8	13.1
GNPA (%)	7.8	6.0	5.1	4.3	3.5
NNPA (%)	3.4	2.3	1.8	1.4	1.1

Per Share Data (Rs)	FY21	FY22	FY23E	FY24E	FY25E
EPS	4.5	8.4	10.4	12.7	15.6
BVPS	87.1	93.8	102.2	112.6	125.5
ABVPS	71.0	82.0	91.6	103.0	117.2
DPS	0.5	1.6	2.0	2.4	2.6

Valuations (x)	FY21	FY22	FY23E	FY24E	FY25E
PER	9.9	5.3	4.3	3.5	2.9
P/BV	0.5	0.5	0.4	0.4	0.4
P/ABV	0.6	0.5	0.5	0.4	0.4
P/PPOP	2.8	2.2	2.0	1.7	1.4
Dividend Yield (%)	1.1	3.6	4.5	5.4	5.8
Caurage Campany Emiliar Daggarah					

Source: Company, Emkay Research
This report is intended for team.emkay@whitemarquesolutions.com use and downloaded at 05/23/2022 03:18 PM

Growth (%)	FY21	FY22	FY23E	FY24E	FY25E
NII	0.5	15.1	10.6	13.6	15.3
PPOP	(26.7)	26.2	11.1	14.5	18.5
PAT	52.9	87.4	24.0	21.9	22.4
Loans	9.3	9.9	12.1	13.5	16.5

Quarterly (Rs mn)	Q4FY21	Q1FY22	Q2FY22	Q3FY22	Q4FY22
NII	6,126	6,379	6,803	6,872	7,099
NIM(%)	3.5	3.6	3.7	3.7	3.8
PPOP	2,024	4,096	3,738	4,016	4,413
PAT	1,044	1,089	1,655	1,855	2,135
EPS (Rs)	1.31	1.36	2.07	2.32	2.67

Source: Company, Emkay Research

Shareholding Pattern (%)	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Promoters	2.1	2.1	2.1	2.3	2.3
FIIs	21.3	21.1	18.9	15.5	15.4
DIIs	20.5	20.1	19.7	21.3	21.9
Public and Others	56.1	56.7	59.3	60.9	60.5

Source: Capitaline

RECOMMENDATION HISTORY TABLE

Date	Closing Price	TP	Period (months)	Rating	Analyst
1-Feb-22	51	72	12m	Buy	Anand Dama
11-Nov-21	58	72	12m	Buy	Anand Dama
5-Aug-21	47	62	12m	Buy	Anand Dama
1-Jun-21	56	62	12m	Hold	Anand Dama
12-Feb-21	55	62	12m	Hold	Anand Dama
20-Jan-21	46	53	12m	Hold	Anand Dama
3-Nov-20	32	33	12m	Hold	Anand Dama
1-Aug-20	35	29	12m	Sell	Anand Dama
26-Jun-20	37	29	12m	Sell	Anand Dama
11-Apr-20	28	18	12m	Sell	Anand Dama
3-Feb-20	47	41	12m	Sell	Anand Dama
1-Nov-19	55	64	12m	Hold	Anand Dama
9-Oct-19	59	66	12m	Hold	Anand Dama
26-Jul-19	66	75	12m	Hold	Anand Dama

Source: Company, Emkay Research

RECOMMENDATION HISTORY CHART



Source: Bloomberg, Company, Emkay Research

Emkay Alpha Portfolio - BFSI-Banks





Analyst: Anand Dama

Contact Details

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

Sector

Banks

Analyst bio

Anand Dama is a CA, CPM (ICFAI) with total 13 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.

Company Name	BSE200 Weight	EAP Weight	OW/UW (%)	OW/UW (bps)	EAP Weight based on Current NAV	vs last
BFSI-Banks	19.30	19.30	0.0%	0	100.00	
Axis Bank	1.91	1.95	2%	4	10.12	0
AU Small Finance Bank	0.31	0.25	-17%	-5	1.32	
Bandhan Bank	0.23	0.26	15%	4	1.37	0
Bank of Baroda	0.19	0.19	0%	0	1.00	0
Canara Bank	0.11	0.05	-54%	-6	0.27	0
City Union Bank	0.00	0.04	NA	4	0.20	0
DCB Bank	0.00	0.00	NA	0	0.00	0
Equitas Small Finance Bank	0.00	0.00	NA	0	0.00	0
Federal Bank	0.18	0.22	21%	4	1.13	0
HDFC Bank	6.08	6.14	1%	7	31.82	0
ICICI Bank	5.17	5.30	3%	13	27.47	0
Indian Bank	0.00	0.00	NA	0	0.00	0
Indusind Bank	0.56	0.66	18%	10	3.44	0
Karur Vysya Bank	0.00	0.00	NA	0	0.00	0
Kotak Mahindra Bank	2.52	2.24	-11%	-27	11.62	0
Punjab National Bank	0.09	0.00	-100%	-9	0.00	0
RBL Bank	0.00	0.00	NA	0	0.00	0
State Bank of India	1.85	1.98	7%	12	10.24	0
Ujjivan Small Finance Bank	0.00	0.00	NA	0	0.00	0
Union Bank of India	0.04	0.00	-100%	-4	0.00	0
Yes Bank	0.05	0.00	-100%	-5	0.00	0
Cash	0.00	0.00	NA	0	0.00	0

Source: Emkay Research

Sector portfolio NAV

	Base					Latest
	1-Apr-19	20-May-21	18-Nov-21	17-Feb-22	20-Apr-22	19-May-22
EAP - BFSI-Banks	100.0	114.3	130.1	128.3	124.0	114.2
BSE200 Neutral Weighted Portfolio (ETF)	100.0	111.9	127.7	125.8	121.5	112.0

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

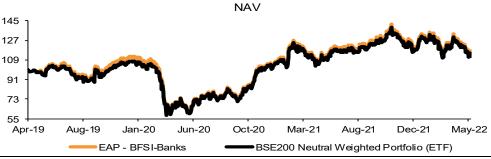
Source: Emkay Research

Price Performance (%)

	1m	3m	6m	12m
EAP - BFSI-Banks	-7.9%	-11.1%	-12.3%	-0.1%
BSF200 Neutral Weighted Portfolio (FTF)	-7.8%	-11 0%	-12 3%	0.1%

Source: Emkay Research

NAV chart



Source: Emkay Research

Please see our model portfolio (Emkay Alpha Portfolio): Nifty

Please see our model portfolio (Emkay Alpha Portfolio): SMID

"Emkay Alpha Portfolio – SMID and Nifty are a supporting document to the Emkay Alpha

This report is intended for team.emkay@wRortfolioseReport and is updated on regular intervals 2022 03:18 PM

[■] High Conviction/Strong Over Weight ■ High Conviction/Strong Under Weight

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: 23 May 2022 01:46:01 (SGT) Dissemination Date: 23 May 2022 01:47:01 (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.emkavolobal.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.

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.

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.

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 May 22, 2022
- 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 May 22, 2022.
- 5. 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 May 22, 2022
- 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 May 22, 2022

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.

RESTRICTIONS ON DISTRIBUTION

12011110110110	70 11420 11014
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.
	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.
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