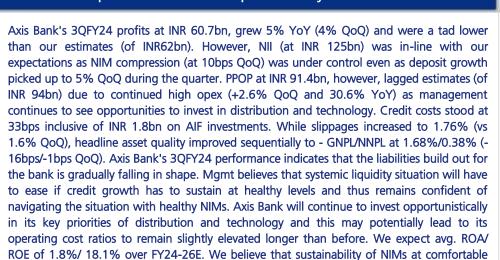
at INR 73.

AXIS Bank | BUY

NIMs hold up well and so does profitability



■ Deposit growth picks up; loan growth broadbased: Axis Bank's deposit growth picked up in 3QFY24 (5% QoQ) after remaining sluggish for 1HFY24. Term deposits grew +24% YoY/ +9% QoQ, though it was also aided by corporate TDs. Retail TD accretion stood at 17% YoY/+2% QoQ while CASA ratio stood at 42% (vs 44% QoQ). Loan growth was well rounded across segments (+22% YoY, +4% QoQ) with Retail/ Agri / SME/ Wholesale growing at +5%/ +7%/ +4%/ +1% QoQ. Amongst retail, growth was led by credit cards (+12% QoQ), LAP (+8.8% QoQ), personal loans (+6.4% QoQ) and retail agri (+6.8% QoQ). This broad based growth in loan portfolio was supported by various digital and transformation initiatives by the bank, benign credit environment and improved capacity utilization across sectors for corporates. We expect advances/ deposit CAGR at 16%/ 14% over FY23A-26E respectively.

levels and healthy asset quality will see Axis Bank re-rating further. Maintain BUY with SoTP based target price of INR 1,330 valuing the core bank at 1.9x FY26E BVPS with subs valued

- Margins moderate though still a respectable outcome: NIMs for Axis Bank stood at 4.01% (-10bps QoQ) which, in our view, is a healthy outcome given the liquidity tightness in the system. Management believes that deposit repricing will continue in 1HCY24 and may put further pressure on cost of deposits unless systemic liquidity eases. According to the management, given systemic liquidity pressures credit growth overall is likely to moderate for system unless regulatory actions improve the liquidity situation. Axis Bank will strive to grow 400-600bps faster than system while keeping NIMs largely stable on a full year basis. We build NII CAGR of 18% FY23-26E for Axis Bank.
- Opex likely to stay elevated; asset quality healthy: Axis Bank's opex ratios (cost/avg assets) remain elevated at 2.6% management has indicated that it will remain in investment

JM	FINANCIAL

Sameer Bhise sameer.bhise@jmfl.com | Tel: (91 22) 66303489

Apurva Deshmukh

apurva.deshmukh@jmfl.com | Tel: (91 22) 66303263

Mayank Mistry

mayank.mistry@jmfl.com | Tel: (91 22) 62241877

Shreyas Pimple

Shreyas.Pimple@jmfl.com | Tel: (91 22) 66301881

Gayathri Shivaram

gayathri.shivaram@jmfl.com | Tel: (91 22) 66301889

Recommendation and Price Target	
Current Reco.	BUY
Previous Reco.	BUY
Current Price Target (12M)	1,330
Upside/(Downside)	22.1%
Previous Price Target	1,330
Change	0.0%

Key Data – AXSB IN	
Current Market Price	INR1,089
Market cap (bn)	INR3,359.6/US\$40.4
Free Float	90%
Shares in issue (mn)	3,063.7
Diluted share (mn)	
3-mon avg daily val (mn)	INR9,301.2/US\$111.8
52-week range	1,152/814
Sensex/Nifty	70,371/21,239
INR/US\$	83.2

Price Performance			
%	1M	6M	12M
Absolute	0.1	12.1	16.8
Relative*	1.1	6.3	0.6

* To the BSE Sensex

Financial Summary					(INR mn)
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Net Profit	130,255	95,797	244,531	283,029	341,968
Net Profit (YoY) (%)	97.7%	-26.5%	155.3%	15.7%	20.8%
Assets (YoY) (%)	19.1%	12.1%	12.4%	14.4%	15.4%
ROA (%)	1.2%	0.8%	1.7%	1.8%	1.9%
ROE (%)	12.0%	8.0%	18.1%	17.9%	18.5%
EPS	42.4	31.1	79.5	92.0	111.1
EPS (YoY) (%)	97.3%	-26.6%	155.3%	15.7%	20.8%
PE (x)	25.7	35.0	13.7	11.8	9.8
BV	375	406	474	553	651
BV (YoY) (%)	13.0%	8.4%	16.6%	16.7%	17.7%
P/BV (x)	2.91	2.68	2.30	1.97	1.67

JM Financial Research is also available on: Bloomberg - JMFR <GO>, Thomson Publisher & Reuters, S&P Capital IQ, FactSet and Visible Alpha

Please see Appendix I at the end of this report for Important Disclosures and Disclaimers and Research Analyst Certification.

Source: Company data, JM Financial. Note: Valuations as of 23/Jan/2024

mode given that benign credit environment gives them additional comfort to invest in distribution/technology while protecting profitability. We believe this is likely to keep opex ratios elevated for a longer period of time than anticipated earlier. Healthy asset quality (with gross slippages at 1.76%) and high provision buffers (non-NPA provisions at 1.3% of loans) offer meaningful earnings cushion and remain a bright spot. Despite impact of risk weight changes in 3QFY24, Axis Bank's CET1 ratio remains healthy at 13.7% (incl. 9M profits).

Valuation and view: AXSB's transformation is in the right direction driving stock performance going ahead; continued investment initiatives, meaningful improvement in liability franchise and sustainability of NIMs in combination with steady loan growth. Given the long-term measures undertaken to improve the liability franchise and portfolio granularity, we expect avg. ROA/ ROE of 1.8%/ 18.1% over FY24-26E. We maintain BUY with SoTP based TP of INR 1,330 valuing the core bank at 1.9x FY26E BVPS with subs valued at INR 73.

Axis Bank – 3Q24trends

Exhibit 1. Axis Bank 3Q24: Re Earnings Table (Rs mn)	3Q'23	2Q'24	3Q'24	YoY (%)	QoQ (%
NII	114,593	123,146	125,322	9.4%	1.8%
Fee based Income	40,080	49,630	51,700	29.0%	4.2%
Trading Profits	4,280	-1,010	2,910	-32.0%	-388.1%
Misc Income	1,360	1,721	938	-31.0%	-45.5%
Non-Interest income	45,720	50,341	55,548	21.5%	10.3%
Total Income	160,313	173,486	180,870	12.8%	4.3%
Employee Cost	22,811	26,098	27,113	18.9%	3.9%
Other Operating Expenses	45,662	61,070	62,344	36.5%	2.1%
Total Operating Expenses	68,473	87,168	89,457	30.6%	2.6%
Operating Profit	91,841	86,319	91,412	-0.5%	5.9%
Loan Loss Provisions	14,470	11,210	7,610	-47.4%	-32.1%
Provisions on Investments	0	0	0	#DIV/0!	#DIV/0
Other Provisions	-93	-3,064	2,673	-2983.9%	-187.2%
Total Provisions	14,377	8,146	10,283	-28.5%	26.2%
PBT	77,463	78,173	81,129	4.7%	3.8%
Tax	19,867	19,537	20,418	2.8%	4.5%
PAT (Pre-Extraordinaries)	57,596	58,636	60,711	5.4%	3.5%
Extraordinaries (Net of Tax)	0.00	0.00	0.00	0.0%	0.0%
Reported Profit	57,596	58,636	60,711	5.4%	3.5%
Balance sheet (Rs bn)					
Deposits	8,481.7	9,555.6	10,049.0	18.5%	5.2%
Net Advances	7,620.8	8,973.5	9,322.9	22.3%	3.9%
Total Assets	12,235.1	13,389.1	13,985.4	14.3%	4.59
Low-cost Deposits (%)	44.5%	44.4%	42.1%	-2.4%	-2.2%
Loan-Deposit ratio (%)	89.8%	93.9%	92.8%	2.9%	-1.1%
Key Ratios					
Credit Quality					
Gross NPAs (Rs. mn.)	199,610	167,567	158,930	-20.4%	-5.2%
Net NPAs (Rs. mn.)	38,301	34,413	35,269	-7.9%	2.5%
Gross NPA (%)	2.57%	1.84%	1.68%	-0.88%	-0.16%
Net NPA (%)	0.50%	0.38%	0.38%	-0.12%	-0.01%
Loan Loss Provisions (%)	0.81%	0.55%	0.36%	-0.45%	-0.19%
Coverage Ratio (%)	80.8%	79.5%	77.8%	-3.0%	-1.7%
Capital Adequacy					
Tier I (%)	16.15%	15.08%	14.18%	-1.97%	-0.90%
CAR (%)	19.51%	17.84%	16.63%	-2.88%	-1.21%
Du-pont Analysis					
NII / Assets (%)	3.81%	3.73%	3.66%	-0.14%	-0.07%
Non-Interest Inc. / Assets (%)	1.52%	1.52%	1.62%	0.10%	0.10%
Operating Cost / Assets (%)	2.27%	2.64%	2.61%	0.34%	-0.03%
Operating Profits / Assets (%)	3.05%	2.61%	2.67%	-0.38%	0.06%
Provisions / Assets (%)	0.48%	0.25%	0.30%	-0.18%	0.05%
ROA (%)	1.91%	1.78%	1.77%	-0.14%	0.00%

Axis Bank – Key quarterly trends

Exhibit 2. Axis bank: Loan mix as of 3Q24					
Loan Book Composition - old reporting (INR bn)	3Q'23	2Q'24	3Q'24	YoY (%)	QoQ (%)
Large & Mid Corporates	2,506	2,817	2,852	13.8%	1.3%
Retail	3,698	4,451	4,672	26.4%	5.0%
SME	822	960	1,000	21.7%	4.3%
Agriculture	595	747	798	34.0%	6.8%
Total	7,621	8,973	9,323	22.3%	3.9%
Large & Mid Corporates	32.9%	31.4%	30.6%	-2.3%	-0.8%
Retail	48.5%	49.6%	50.1%	1.6%	0.5%
SME	10.8%	10.7%	10.7%	-0.1%	0.0%
Agriculture	7.8%	8.3%	8.6%	0.7%	0.2%
Total	100%	100%	100%		

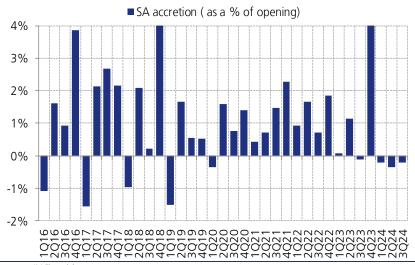
Source: Company, JM Financial

Exhibit 3. Axis Bank: Retail loan mix as on 3Q	24				
Retail loans composition -New reporting (Rs bn)	3Q'23	2Q'24	3Q'24	YoY (%)	QoQ (%)
Housing Loans	1,494	1,592	1,628	9.0%	2.3%
LAP	425	539	586	38.0%	8.8%
Personal loans & Credit cards	713	914	1,050	47.4%	14.9%
Auto Loans	468	556	579	23.6%	4.1%
Retail agri loans	595	747	798	34.0%	6.8%
Others	598	850	829	38.5%	-2.5%
Total Retail Loans	4,293	5,197	5,470	27.4%	5.2%
Housing Loans	35%	31%	30%	-5.0%	-0.9%
LAP	10%	10%	11%	0.8%	0.4%
Personal loans & Credit cards	17%	18%	19%	2.6%	1.6%
Auto Loans	11%	11%	11%	-0.3%	-0.1%
Retail agri loans	14%	14%	15%	0.7%	0.2%
Others	14%	16%	15%	1.2%	-1.2%
Total Retail Loans	100%	100%	100%		

Source: Company, JM Financial

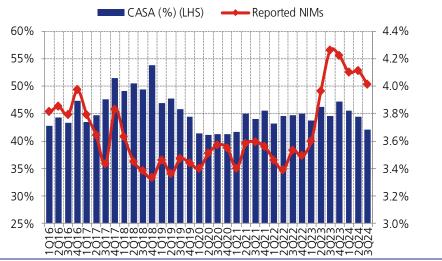
Deposits Composition (Rs bn)	30'23	20'24	30'24	YoY (%)	QoQ (%)
Current	1,263	1,316	1,331	5.4%	1.2%
Saving	2,514	2,923	2,904	15.5%	-0.7%
Time	4,705	5,317	5,814	23.6%	9.4%
Total Deposits	8,482	9,556	10,049	18.5%	5.2%
Current	14.9%	13.8%	13.2%	-1.6%	-0.5%
Saving	29.6%	30.6%	28.9%	-0.7%	-1.7%
CASA	44.5%	44.4%	42.1%	-2.4%	-2.2%
Time	55.5%	55.6%	57.9%	2.4%	2.2%
Total	100%	100%	100%		

Exhibit 5. Axis Bank: SA accretion during the quarter (%)



Source: Company, JM Financial

Exhibit 6. Axis Bank: Quarterly trends in CASA and margins (%)



Source: Company, JM Financial

Exhibit 7. Axis Bank: Cost ratios (%)

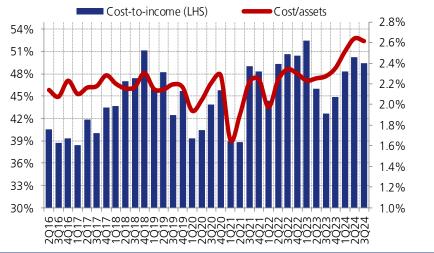
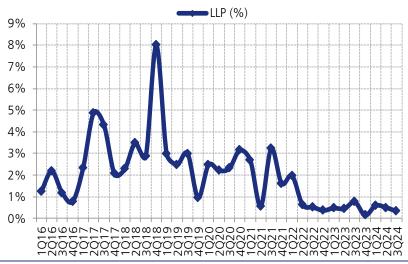
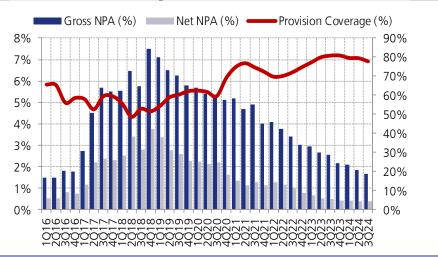


Exhibit 8. Axis Bank: Credit costs



Source: Company, JM Financial

Exhibit 9. Axis Bank: Provision coverage



Valuation and 12M TP

We value Axis Bank on a two-stage Gordon growth model. Our assumptions are as follows:

Exhibit 10. Axis Bank: Valuation summary	
Initial no of years	10
Growth rate for the first 10 years (%)	13.5%
Pay-out ratio for the first 10 years (%)	20.0%
Perpetual growth rate (%)	4.2%
Perpetual payout ratio (%)	75.0%
K1	2.1
K2	9.4
Fully adjusted FY25E BVPS (Rs)	651
Target Price / Fully Adj BV (x)	1.9
Fair value (rounded off)	1,257

Source: Company, JM Financial

The SOTP valuation is summarised below:

Exhibit 11. Axis Bank : SOTP valuation			
SOTP	Holding	Methodology	Value per share
Axis Bank	100%	1.9x FY26E adj. BVPS	1,257
Axis Finance	100%	1.9x FY26E BVPS	30
Axis AMC	75%	30x FY24 PAT	29
Axis Securities	100%	15x FY24 PAT	15
Axis Capital	100%	15x FY24 PAT	7
Cost of investments			(8)
Fair value			1,330

Source: Company, JM Financial



Financial Tables (Standalone)

Profit & Loss					(INR mn)
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Net Interest Income	331,322	429,457	496,794	579,519	703,051
Profit on Investments	13,777	-2,750	5,003	5,003	5,003
Exchange Income	19,124	18,021	15,253	18,509	22,082
Fee & Other Income	119,305	149,738	181,949	220,831	257,346
Non-Interest Income	152,205	165,009	202,204	244,343	284,431
Total Income	483,528	594,466	698,998	823,862	987,482
Operating Expenses	236,108	271,662	328,068	381,492	441,180
Pre-provisioning Profits	247,420	322,804	370,930	442,370	546,302
Loan-Loss Provisions	53,701	37,900	41,725	61,886	87,314
Provisions on Investments	0	0	0	0	0
Others Provisions	19,894	-9,053	3,500	3,500	3,500
Total Provisions	73,595	28,848	45,225	65,386	90,814
PBT	173,826	293,957	325,705	376,983	455,488
Tax	43,571	73,262	81,174	93,954	113,520
PAT (Pre-Extraordinaries)	130,255	220,695	244,531	283,029	341,968
Extra ordinaries (Net of Tax)	0	-124,898	0	0	0
Reported Profits	130,255	95,797	244,531	283,029	341,968
Dividend paid	3,070	3,071	36,922	39,230	39,999
Retained Profits	127,185	92,725	207,609	243,799	301,969

Balance Sheet					(INR mn)
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Equity Capital	6,139	6,154	6,154	6,154	6,154
Reserves & Surplus	1,144,115	1,243,779	1,451,387	1,695,187	1,997,156
Deposits	8,219,716	9,469,452	10,605,786	12,090,596	13,904,186
Borrowings	1,851,339	1,863,000	2,065,720	2,374,208	2,722,970
Other Liabilities	531,493	586,636	674,632	775,826	915,475
Total Liabilities	11,754,288	13,173,255	14,803,679	16,941,972	19,545,941
Investments	2,755,972	2,888,148	3,092,522	3,508,857	4,387,276
Net Advances	7,079,466	8,453,028	9,805,513	11,374,395	13,194,298
Cash & Equivalents	1,109,871	1,064,108	1,055,335	1,212,981	1,395,726
Fixed Assets	45,724	47,339	103,626	118,594	136,822
Other Assets	763,255	720,632	746,684	727,145	431,819
Total Assets	11,754,287	13,173,255	14,803,679	16,941,972	19,545,941

Source: Company, JM Financial

Source: Company, JM Financial

Key Ratios						
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E	
Growth (YoY) (%)						
Deposits	17.8%	15.2%	12.0%	14.0%	15.0%	
Advances	15.2%	19.4%	16.0%	16.0%	16.0%	
Total Assets	19.1%	12.1%	12.4%	14.4%	15.4%	
NII	13.3%	29.6%	15.7%	16.7%	21.3%	
Non-interest Income	24.1%	8.4%	22.5%	20.8%	16.4%	
Operating Expenses	28.5%	15.1%	20.8%	16.3%	15.6%	
Operating Profits	7.0%	30.5%	14.9%	19.3%	23.5%	
Core Operating profit	13.5%	35.3%	14.5%	19.5%	23.8%	
Provisions	-48.6%	-60.8%	56.8%	44.6%	38.9%	
Reported PAT	97.7%	-26.5%	155.3%	15.7%	20.8%	
Yields / Margins (%)						
Interest Spread	3.04%	3.35%	3.30%	3.36%	3.43%	
NIM	3.32%	3.68%	3.77%	3.86%	4.01%	
Profitability (%)						
Non-IR to Income	31.5%	27.8%	28.9%	29.7%	28.8%	
Cost to Income	48.8%	45.7%	46.9%	46.3%	44.7%	
ROA	1.20%	0.77%	1.75%	1.78%	1.87%	
ROE	12.0%	8.0%	18.1%	17.9%	18.5%	
Assets Quality (%)						
Slippages	3.31%	2.08%	1.70%	1.60%	1.80%	
Gross NPA	3.01%	2.16%	1.90%	1.85%	2.08%	
Net NPAs	0.78%	0.42%	0.39%	0.37%	0.53%	
Provision Coverage	74.7%	80.9%	80.0%	80.0%	75.0%	
Specific LLP	0.78%	0.43%	0.32%	0.45%	0.57%	
Net NPAs / Networth	4.8%	2.8%	2.6%	2.5%	3.5%	
Capital Adequacy (%)						
Tier I	16.34%	14.57%	15.14%	15.45%	15.78%	
CAR	18.54%	17.64%	18.28%	18.57%	18.80%	

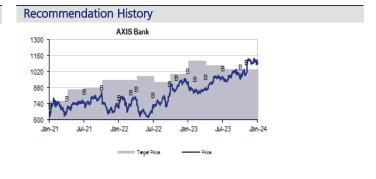
Dupont Analysis						
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E	
NII / Assets	3.06%	3.45%	3.55%	3.65%	3.85%	
Other Income / Assets	1.41%	1.32%	1.45%	1.54%	1.56%	
Total Income / Assets	4.47%	4.77%	5.00%	5.19%	5.41%	
Cost / Assets	2.18%	2.18%	2.35%	2.40%	2.42%	
PBP / Assets	2.29%	2.59%	2.65%	2.79%	2.99%	
Provisions / Assets	0.68%	0.23%	0.32%	0.41%	0.50%	
PBT / Assets	1.61%	2.36%	2.33%	2.38%	2.50%	
Tax rate	25.1%	24.9%	24.9%	24.9%	24.9%	
ROA	1.20%	0.77%	1.75%	1.78%	1.87%	
RoRWAs	1.92%	1.22%	2.70%	2.76%	2.90%	
Leverage	10.2	10.5	10.2	10.0	9.8	
ROE	12.0%	8.0%	18.1%	17.9%	18.5%	

Source: Company, JM Financial

Valuations					
Y/E March	FY22A	FY23A	FY24E	FY25E	FY26E
Shares in Issue	3,069.7	3,076.9	3,076.9	3,076.9	3,076.9
EPS (INR)	42.4	31.1	79.5	92.0	111.1
EPS (YoY) (%)	97.3%	-26.6%	155.3%	15.7%	20.8%
PER (x)	25.7	35.0	13.7	11.8	9.8
BV (INR)	375	406	474	553	651
BV (YoY) (%)	13.0%	8.4%	16.6%	16.7%	17.7%
ABV (INR)	375	406	474	553	651
ABV (YoY) (%)	13.0%	8.4%	16.6%	16.7%	17.7%
P/BV (x)	2.91	2.68	2.30	1.97	1.67
P/ABV (x)	2.91	2.68	2.30	1.97	1.67
DPS (INR)	1.0	1.0	12.0	12.8	13.0
Div. yield (%)	0.1%	0.1%	1.1%	1.2%	1.2%

Source: Company, JM Financial

Date	Recommendation	Target Price	% Chg.
29-Apr-20	Hold	460	
21-Jul-20	Hold	460	0.0
28-Oct-20	Hold	530	15.2
11-Jan-21	Buy	750	41.5
27-Jan-21	Buy	770	2.7
27-Apr-21	Buy	870	13.0
26-Jul-21	Buy	880	1.1
27-Oct-21	Buy	950	8.0
24-Jan-22	Buy	950	0.0
30-Mar-22	Buy	950	0.0
28-Apr-22	Buy	985	3.7
25-Jul-22	Buy	930	-5.6
20-Oct-22	Buy	1,000	7.5
24-Nov-22	Buy	1,000	0.0
23-Jan-23	Buy	1,120	12.0
1-Mar-23	Buy	1,120	0.0
27-Apr-23	Buy	1,075	-4.0
27-Jul-23	Buy	1,040	-3.3
26-Oct-23	Buy	1,040	0.0
27-Nov-23	Buy	1,040	0.0



APPENDIX I

JM Financial Institutional Securities Limited

Corporate Identity Number: U67100MH2017PLC296081

Member of BSE Ltd. and National Stock Exchange of India Ltd.

SEBI Registration Nos.: Stock Broker - INZ000163434, Research Analyst - INH000000610

Registered Office: 7th Floor, Cnergy, Appasaheb Marathe Marg, Prabhadevi, Mumbai 400 025, India.

Board: +91 22 6630 3030 | Fax: +91 22 6630 3488 | Email: jmfinancial.research@jmfl.com | www.jmfl.com Compliance Officer: Mr. Sahil Salastekar | Tel: +91 22 6224 1073 | Email: sahil.salastekar@jmfl.com Grievance officer: Mr. Sahil Salastekar | Tel: +91 22 6224 1073 | Email: instcompliance@jmfl.com

Investment in securities market are subject to market risks. Read all the related documents carefully before investing.

Definition of	ratings
Rating	Meaning
Buy	Total expected returns of more than 10% for stocks with market capitalisation in excess of INR 200 billion and REITs* and more than 15% for all other stocks, over the next twelve months. Total expected return includes dividend yields.
Hold	Price expected to move in the range of 10% downside to 10% upside from the current market price for stocks with market capitalisation in excess of INR 200 billion and REITs* and in the range of 10% downside to 15% upside from the current market price for all other stocks, over the next twelve months.
Sell	Price expected to move downwards by more than 10% from the current market price over the next twelve months.

^{*} REITs refers to Real Estate Investment Trusts.

Research Analyst(s) Certification

The Research Analyst(s), with respect to each issuer and its securities covered by them in this research report, certify that:

All of the views expressed in this research report accurately reflect his or her or their personal views about all of the issuers and their securities; and

No part of his or her or their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this research
report.

Important Disclosures

This research report has been prepared by JM Financial Institutional Securities Limited (JM Financial Institutional Securities) to provide information about the company(ies) and sector(s), if any, covered in the report and may be distributed by it and/or its associates solely for the purpose of information of the select recipient of this report. This report and/or any part thereof, may not be duplicated in any form and/or reproduced or redistributed without the prior written consent of JM Financial Institutional Securities. This report has been prepared independent of the companies covered herein.

JM Financial Institutional Securities is registered with the Securities and Exchange Board of India (SEBI) as a Research Analyst and a Stock Broker having trading memberships of the BSE Ltd. (BSE) and National Stock Exchange of India Ltd. (NSE). No material disciplinary action has been taken by SEBI against JM Financial Institutional Securities in the past two financial years which may impact the investment decision making of the investor. Registration granted by SEBI and certification from the National Institute of Securities Market (NISM) in no way guarantee performance of JM Financial Institutional Securities or provide any assurance of returns to investors.

JM Financial Institutional Securities renders stock broking services primarily to institutional investors and provides the research services to its institutional clients/investors. JM Financial Institutional Securities and its associates are part of a multi-service, integrated investment banking, investment management, brokerage and financing group. JM Financial Institutional Securities and/or its associates might have provided or may provide services in respect of managing offerings of securities, corporate finance, investment banking, mergers & acquisitions, broking, financing or any other advisory services to the company(ies) covered herein. JM Financial Institutional Securities and/or its associates might have received during the past twelve months or may receive compensation from the company(ies) mentioned in this report for rendering any of the above services.

JM Financial Institutional Securities and/or its associates, their directors and employees may; (a) from time to time, have a long or short position in, and buy or sell the securities of the company(ies) mentioned herein or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) covered under this report or (c) act as an advisor or lender/borrower to, or may have any financial interest in, such company(ies) or (d) considering the nature of business/activities that JM Financial Institutional Securities is engaged in, it may have potential conflict of interest at the time of publication of this report on the subject company(ies).

Neither JM Financial Institutional Securities nor its associates or the Research Analyst(s) named in this report or his/her relatives individually own one per cent or more securities of the company(ies) covered under this report, at the relevant date as specified in the SEBI (Research Analysts) Regulations, 2014.

The Research Analyst(s) principally responsible for the preparation of this research report and their immediate relatives are prohibited from buying or selling debt or equity securities, including but not limited to any option, right, warrant, future, long or short position issued by company(ies) covered under this report. The Research Analyst(s) principally responsible for the preparation of this research report or their immediate relatives (as defined under SEBI (Research Analysts) Regulations, 2014); (a) do not have any financial interest in the company(ies) covered under this report or (b) did not receive any compensation from the company(ies) covered under this report, or from any third party, in connection with this report or (c) do not have any other material conflict of interest at the time of publication of this report. Research Analyst(s) are not serving as an officer, director or employee of the company(ies) covered under this report.

While reasonable care has been taken in the preparation of this report, it does not purport to be a complete description of the securities, markets or developments referred to herein, and JM Financial Institutional Securities does not warrant its accuracy or completeness. JM Financial Institutional Securities may not be in any way responsible for any loss or damage that may arise to any person from any inadvertent error in the information contained in this report. This report is provided for information only and is not an investment advice and must not alone be taken as the basis for an investment decision.

This research report is based on the fundamental research/analysis conducted by the Research Analyst(s) named herein. Accordingly, this report has been prepared by studying/focusing on the fundamentals of the company(ies) covered in this report and other macro-economic factors. JM Financial Institutional Securities may have also issued or may issue, research reports and/or recommendations based on the technical/quantitative analysis of the company(ies) covered in this report by studying and using charts of the stock's price movement, trading volume and/or other volatility parameters. As a result, the views/recommendations expressed in such technical research reports could be inconsistent or even contrary to the views contained in this report.

The investment discussed or views expressed or recommendations/opinions given herein may not be suitable for all investors. The user assumes the entire risk of any use made of this information. The information contained herein may be changed without notice and JM Financial Institutional Securities reserves the right to make modifications and alterations to this statement as they may deem fit from time to time.

This report is neither an offer nor solicitation of an offer to buy and/or sell any securities mentioned herein and/or not an official confirmation of any transaction.

This report is not directed 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, regulation or which would subject JM Financial Institutional Securities and/or its affiliated company(ies) to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to a certain category of investors. Persons in whose possession this report may come, are required to inform themselves of and to observe such restrictions.

Additional disclosure only for U.S. persons: JM Financial Institutional Securities has entered into an agreement with JM Financial Securities, Inc. ("JM Financial Securities"), a U.S. registered broker-dealer and member of the Financial Industry Regulatory Authority ("FINRA") in order to conduct certain business in the United States in reliance on the exemption from U.S. broker-dealer registration provided by Rule 15a-6, promulgated under the U.S. Securities Exchange Act of 1934 (the "Exchange Act"), as amended, and as interpreted by the staff of the U.S. Securities and Exchange Commission ("SEC") (together "Rule 15a-6").

This research report is distributed in the United States by JM Financial Securities in compliance with Rule 15a-6, and as a "third party research report" for purposes of FINRA Rule 2241. In compliance with Rule 15a-6(a)(3) this research report is distributed only to "major U.S. institutional investors" as defined in Rule 15a-6 and is not intended for use by any person or entity that is not a major U.S. institutional investor. If you have received a copy of this research report and are not a major U.S. institutional investor, you are instructed not to read, rely on, or reproduce the contents hereof, and to destroy this research or return it to JM Financial Institutional Securities or to JM Financial Securities.

This research report is a product of JM Financial Institutional Securities, which is the employer of the research analyst(s) solely responsible for its content. The research analyst(s) preparing this research report is/are resident outside the United States and are not associated persons or employees of any U.S. registered broker-dealer. Therefore, the analyst(s) are not subject to supervision by a U.S. broker-dealer, or otherwise required to satisfy the regulatory licensing requirements of FINRA and may not be subject to the Rule 2241 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

Any U.S. person who is recipient of this report that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, must contact, and deal directly through a U.S. registered representative affiliated with a broker-dealer registered with the SEC and a member of FINRA. In the U.S., JM Financial Institutional Securities has an affiliate, JM Financial Securities, Inc. located at 1325 Avenue of the Americas, 28th Floor, Office No. 2821, New York, New York 10019. Telephone +1 (332) 900 4958 which is registered with the SEC and is a member of FINRA and SIPC.

Additional disclosure only for U.K. persons: Neither JM Financial Institutional Securities nor any of its affiliates is authorised in the United Kingdom (U.K.) by the Financial Conduct Authority. As a result, this report is for distribution only to persons who (i) have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Financial Promotion Order"), (ii) are persons falling within Article 49(2)(a) to (d) ("high net worth companies, unincorporated associations etc.") of the Financial Promotion Order, (iii) are outside the United Kingdom, or (iv) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the Financial Services and Markets Act 2000) in connection with the matters to which this report relates may otherwise lawfully be communicated or caused to be communicated (all such persons together being referred to as "relevant persons"). This report is directed only at relevant persons and must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this report relates is available only to relevant persons and will be engaged in only with relevant persons.

Additional disclosure only for Canadian persons: This report is not, and under no circumstances is to be construed as, an advertisement or a public offering of the securities described herein in Canada or any province or territory thereof. Under no circumstances is this report to be construed as an offer to sell securities or as a solicitation of an offer to buy securities in any jurisdiction of Canada. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the registration requirement in the relevant province or territory of Canada in which such offer or sale is made. This report is not, and under no circumstances is it to be construed as, a prospectus or an offering memorandum. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon these materials, the information contained herein or the merits of the securities described herein and any representation to the contrary is an offence. If you are located in Canada, this report has been made available to you based on your representation that you are an "accredited investor" as such term is defined in National Instrument 45-106 Prospectus Exemptions and a "permitted client" as such term is defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations. Under no circumstances is the information contained herein to be construed as investment advice in any province or territory of Canada nor should it be construed as being tailored to the needs of the recipient. Canadian recipients are advised that JM Financial Securities, Inc., JM Financial Institutional Securities Limited, their affiliates and authorized agents are not responsible for, nor do they accept, any liability whatsoever for any direct or consequential lo