

Well poised to sustain best-in-class performance

Operating leverage emerging as an earnings lever; growth outlook steady

We met with the top management team of ICICI Bank (ICICIBC), represented by Mr. Sandeep Bakhshi, MD & CEO, Mr. Abhinek Bhargava, Head-IR, and select business heads to discuss the bank's business outlook and other key focus areas. Following are the key takeaways from the discussion:

Loan growth to remain robust; focusing on quality underwriting

ICICIBC is consistently outpacing system credit growth, driven by higher growth in retail and SME segments, while the wholesale growth remains modest. With a focus on building a diversified and granular portfolio, ICICIBC reported a ~17% CAGR in loans over FY22-24. The bank has adopted data analytics-driven processes for onboarding, credit assessment, and customer monitoring. The share of unsecured loans (credit cards + personal loans) now stands at ~14% of the total portfolio. A major proportion of loans in this portfolio are extended to existing customers, with a notable preference toward the salaried segment. Looking ahead, while the bank remains agnostic to sectors and continues to focus on risk-calibrated core PPoP, the burgeoning pace of activity in SME, business banking and retail will continue to drive overall growth. The bank will continue to tighten its underwriting in unsecured lending, thereby supporting sustained growth and portfolio quality.

Liability momentum healthy; superior tech to aid customer acquisition

ICICIBC delivered industry-leading deposit growth of ~20% in FY24. The bank's strategic initiatives in digital banking and branch network expansion should help it sustain healthy momentum in liabilities. Deposit growth has been aided by continuous improvements in digital platforms and the simplification of processes to provide a seamless banking experience to customers. ICICIBC has launched several digital innovations with powerful functionalities and seamless access to digital channels. It has also launched an array of new products (iLens, Insta Export Packing Credit etc.), besides enhancing InstaBIZ and Merchant Stack tools. These tools have the ability to offer customized solutions, enable data-driven cross-sell and up-sell, onboard new customers, and provide value-added features. The bank is also focusing on a 360-degree customer-centric approach by providing various products and solutions for a holistic banking experience, thus improving its customer acquisition run rate and overall engagement levels.

NIMs to remain range-bound in near term

The bank remains focused on bolstering its retail deposit base even as the CASA mix moderated to 42.2% in FY24 (~39% on average basis) owing to a higher rate differential. The management intends to maintain a healthy and stable deposit profile to keep funding cost in control. The conservative LDR of 82.3% on domestic book places the bank well among large private banks to pursue loan growth. Over the past one year, margins have corrected by 50bp to 4.4%; however, the pace of NIM compression has moderated sharply with a tiny 3bp QoQ decline in margins in 4QFY24. The bank expects margins to remain range-bound with a slight downside bias in the near term due to elevated TD rates (recently raised rates by 10bp) and residual repricing of its TD portfolio.

Nitin Aggarwal - Research Analyst (Nitin.Agarwal@MotilalOswal.com)

Research Analyst: Dixit Sankharva (Dixit.sankharva@MotilalOswal.com) | **Disha Singhal** (Disha.Singhal@MotilalOswal.com)

ICICI Bank



Mr. Sandeep Bakhshi, MD & CEO

Mr. Bakhshi has been MD and CEO of ICICI Bank since Oct'18. Previously, he was a Wholetime Director and COO of the bank. Mr. Bakhshi has been with the ICICI Group since 1986 and has handled various assignments across the group in ICICI Limited, ICICI Lombard General Insurance, ICICI Bank and ICICI Prudential Life Insurance. He grew up in a defense services family and attended several schools and colleges across India before completing his management studies from XLRI in Jamshedpur.

Fee growth steady; operating leverage emerging as a key lever with focus on “Return on Effort”

ICICIBC delivered ~16% growth in core fees in FY24, driven by strategic initiatives across retail, SME, and business banking segments, which collectively contributed ~78% to overall fees. The bank's focus on enhancing transaction banking, foreign exchange services, and derivatives products has bolstered fee income, complemented by gains in credit cards through an increased market share in cards-in-force and spending volumes. Efficient deployment of data analytics has further augmented digital transactions across retail segments, while a gradual recovery in the corporate portfolio is anticipated to spur fee growth as lending activity remains healthy. The bank has been focusing on enhancing its digital capabilities to support business growth and expand new verticals. Over past three years the bank has reported avg. 22% YoY growth in opex, yet the C/I ratio remains broadly stable at ~40%, supported by healthy revenue growth. The bank is focusing strongly on leveraging technology to increase volumes in the retail and SME segments, with an aim to improve productivity and ensuring that it gets its due **“Return on Effort.”** We currently factor in ~15% YoY growth in opex over FY24-26E and remain optimistic on further moderation in the opex run rate.

ICICI Bank’s transformation under competent management leading to sustainable growth

Under Mr. Bakhshi's leadership, ICICIBC has undergone a radical transformation characterized by an overhaul of HR policies, thereby shifting emphasis from individual to team performance. Despite facing industry-wide attrition challenges, the bank distinguishes itself with a robust leadership bench and a commitment to structured processes over reliance on individual star performers. This strategic shift has proven effective, enabling the bank to consistently deliver strong outcomes, thus moving away from a culture that previously incentivized individual stardom. ‘One Bank, One Team’ approach has encouraged employees to collectively work toward the greater organizational goals, thus helping achieve superior results. The management's unwavering focus on fostering a cohesive organizational culture underpins its goal of sustainable and profitable growth, reinforcing the bank's position as a resilient and successful institution poised for continued success in the banking sector.

Asset quality remains robust; credit cost to normalize gradually

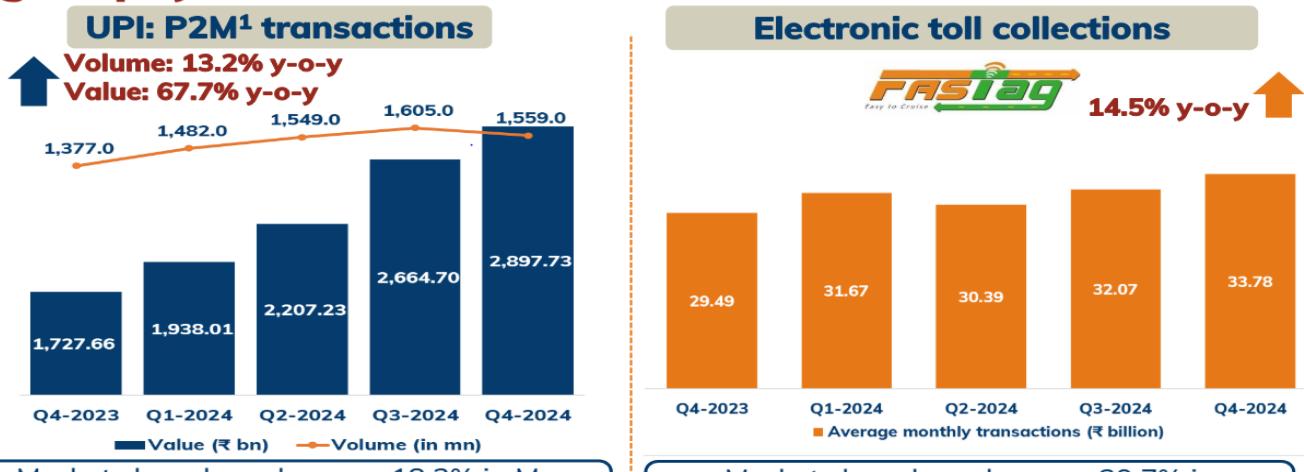
ICICIBC has made significant progress toward improving its asset quality, with the best-in-class PCR of ~81%, which, coupled with contingent provisions of ~INR131b (1.1% of loans), will keep credit cost benign. An improvement in underwriting, led by increasing adoption of analytics, a lower BB and below book (0.5% of loans), and controlled restructuring (0.26% of loans), will keep slippages under control. The bank highlighted that it has improvised the credit filters in the personal loan segment as a risk measure and has also increased the pricing of new personal loans. However, currently no adverse trends are seen in the unsecured portfolio. The bank has made aggressive investments in technology, wherein it has used analytics and digital capabilities to formulate early delinquency models, which is helping the bank keep slippages under control. We estimate GNPA/NNPA ratios to moderate to 2.17%/0.28% by FY26E, while credit cost increases to ~0.6% by FY26E.

Valuation and view: Growth outlook steady; reiterate Buy with a TP of INR1,350

ICICIBC is well positioned to deliver a superior performance characterized by healthy loan growth, strong asset quality and industry-leading return ratios. While we estimate margins to remain range-bound in the near term, the operating leverage is emerging as a lever to support earnings growth. The bank is witnessing healthy deposit inflow, while a benign CD ratio (lowest among large private banks) places it well to focus on profitable growth. The asset quality outlook remains robust as the bank maintains strong PCR and a high contingency buffer (1.1% of loans). We thus estimate ICICIBC to deliver a PPoP/PATCAGR of 16.7%/13.7% over FY24-26E, leading to RoA/RoE of 2.2%/17.7%. **Reiterate BUY with a TP of INR1,350 (premised on 2.5x FY26E ABV).**

Exhibit 1: ICICIB has increased its market share in digital payments transaction: Market share by value at 18.3% in FY24

Digital payments



Market share by value was 18.3% in Mar 2024

Market share by value was 29.7% in Q4-2024

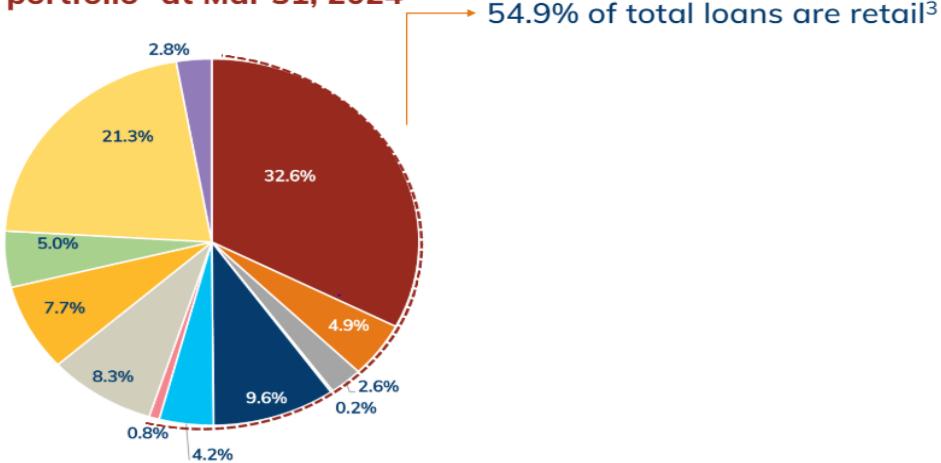
Source: Company

Exhibit 2: Bank is focused on building a diversified and granular portfolio with ~55% of portfolio being retail

Diversified and granular loan book

Breakup of loan portfolio¹ at Mar 31, 2024

- Mortgages
- Auto finance
- Commercial vehicle and equipment
- Two wheeler loans
- Personal loans
- Credit cards
- Other retail loans²
- Rural loans
- Business banking
- SME
- Corporate and others
- Overseas book



1. Proportions are gross of BRDS/IBPC
2. Includes dealer funding, loan against shares and others
3. Including non-fund based outstanding, the share of retail portfolio was 46.8% of the total portfolio at Mar 31, 2024

25

Source: Company

STORY IN CHARTS

Exhibit 3: Overall loan book grew 16.2% YoY (~2.7% QoQ)

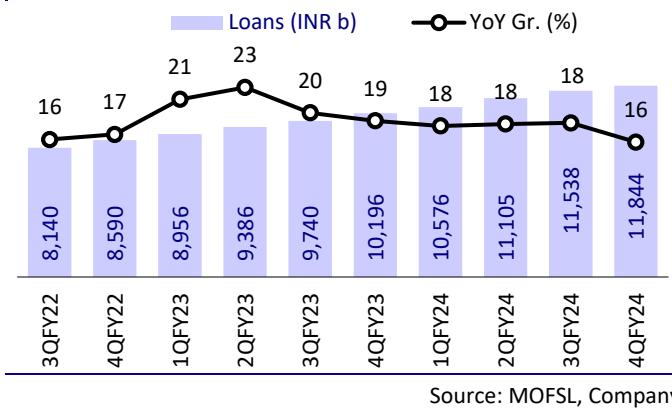


Exhibit 4: Retail loans continue to drive loan growth

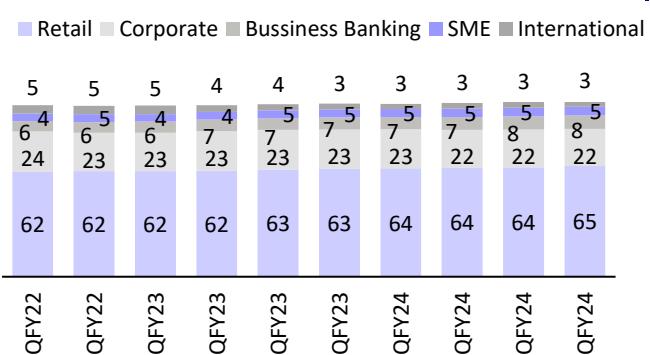


Exhibit 5: Fee income grew 12.5% YoY; Core PPoP at 6% YoY

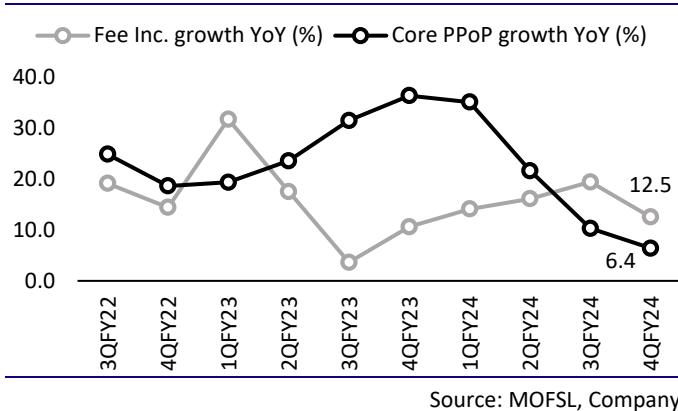


Exhibit 6: NIMs declined 3bp QoQ to 4.4%

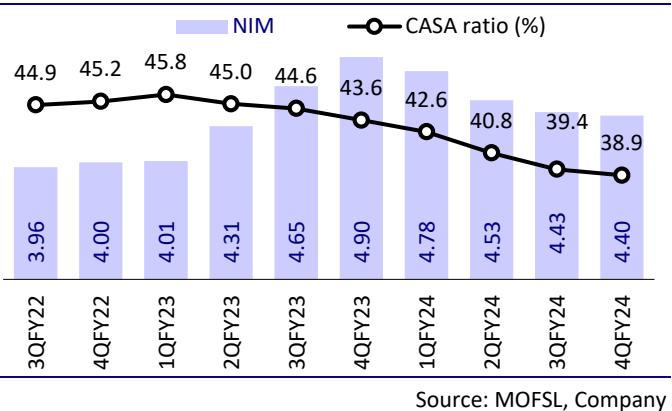


Exhibit 7: C/I ratio eased to ~39% showing strong cost control

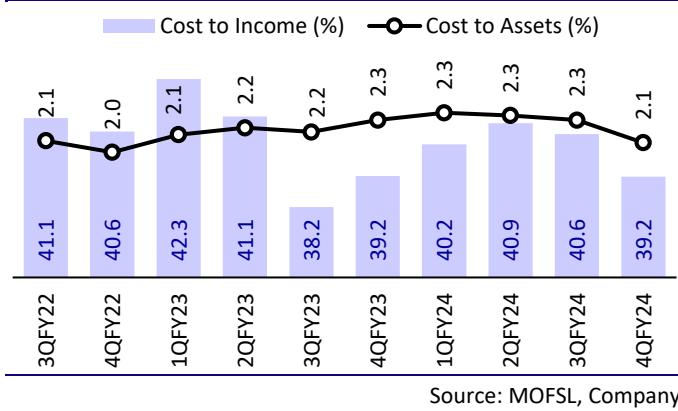


Exhibit 8: CD ratio declined to 83.8% vs 86.6% in 3Q

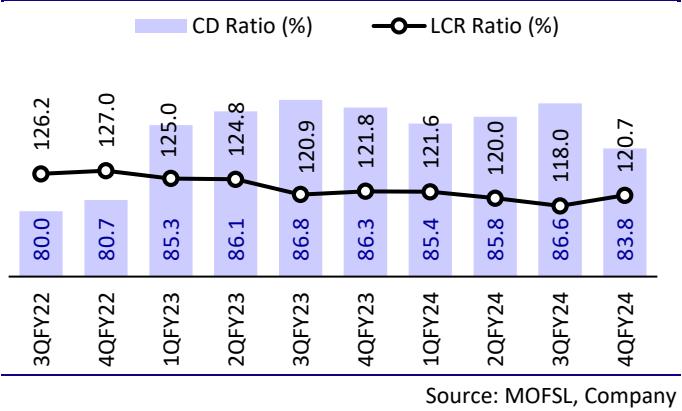


Exhibit 9: Credit cost declined to 0.3% in 4QFY24

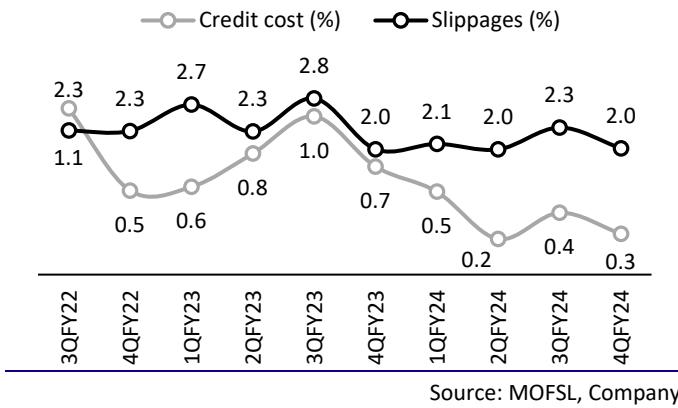


Exhibit 10: GNP/NNPA ratio declined to 2.16%/0.42%

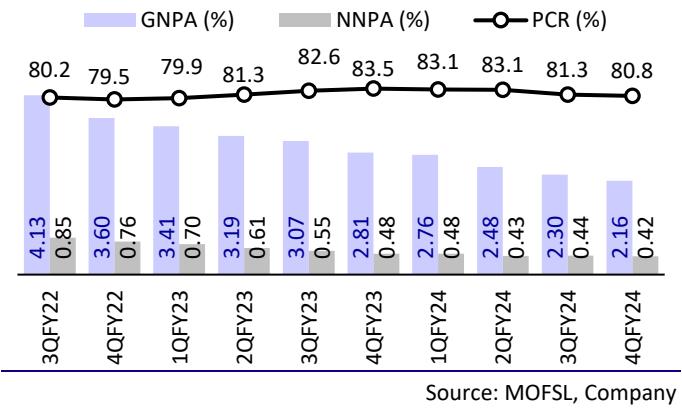


Exhibit 11: Fee income grew at healthy 15.5% YoY in FY24

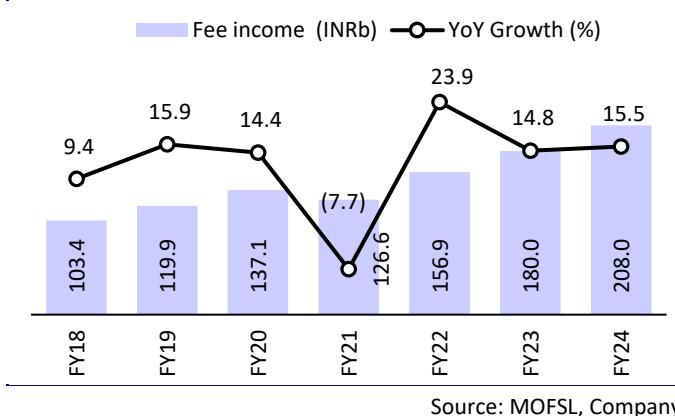


Exhibit 12: Estimate C/I ratio to moderate to 39.4% by FY26E

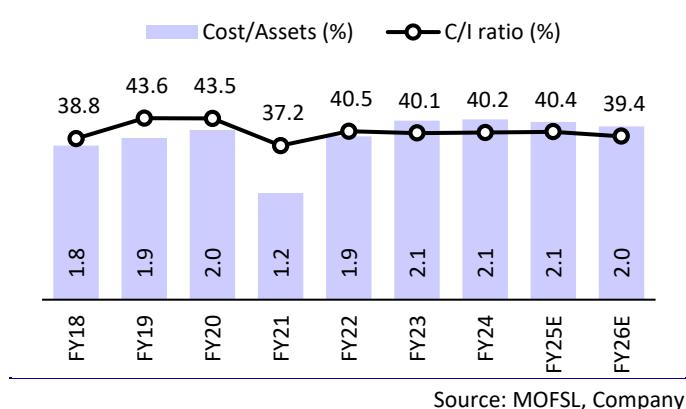


Exhibit 13: Provisions/PPoP remains in control (%)

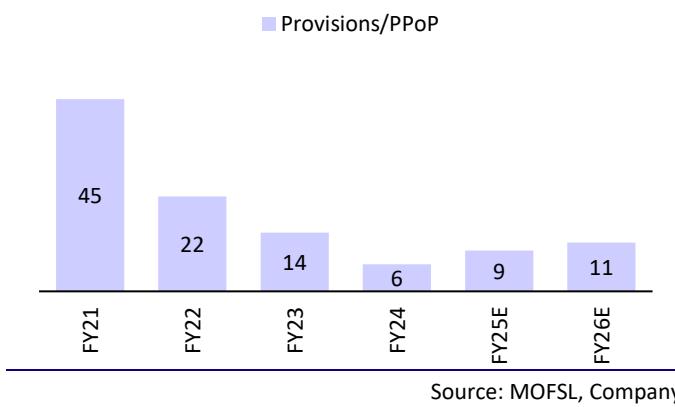


Exhibit 14: CRAR stands at 16.3% in FY24 vs 18.3% in FY23

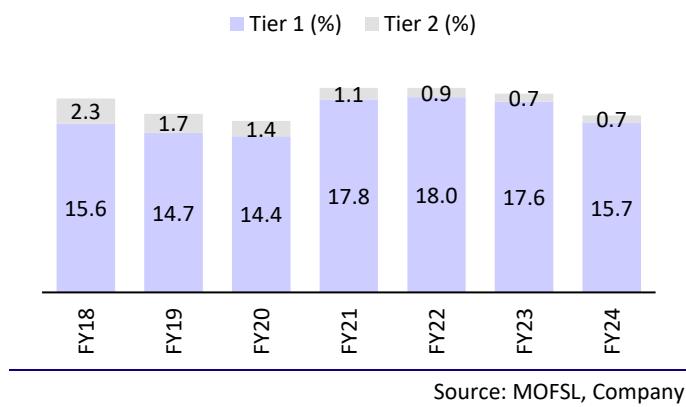


Exhibit 15: DuPont Analysis

Y/E March	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Interest Income	7.25	6.79	6.54	7.29	8.27	8.13	8.04
Interest Expense	4.03	3.45	2.95	3.14	3.97	3.94	3.87
Net Interest Income	3.23	3.35	3.59	4.15	4.30	4.18	4.17
Core Fee Income	1.28	1.27	1.04	1.19	1.15	1.13	1.13
Trading and others	0.32	0.36	0.36	0.13	0.18	0.19	0.19
Non Interest income	1.59	1.63	1.40	1.32	1.33	1.32	1.32
Total Income	4.82	4.98	5.00	5.47	5.63	5.50	5.50
Operating Expenses	2.10	1.85	2.02	2.19	2.26	2.22	2.16
Employee cost	0.80	0.69	0.73	0.81	0.86	0.82	0.80
Others	1.29	1.16	1.29	1.39	1.41	1.40	1.36
Operating Profits	2.72	3.13	2.97	3.28	3.36	3.28	3.33
Core operating Profits	2.41	2.77	2.61	3.14	3.18	3.09	3.14
Provisions	1.36	1.39	0.65	0.45	0.21	0.31	0.38
PBT	1.36	1.73	2.32	2.83	3.15	2.97	2.96
Tax	0.59	0.34	0.55	0.70	0.79	0.74	0.73
RoA	0.77	1.39	1.77	2.13	2.37	2.23	2.22
Leverage	9.4	9.0	8.5	8.2	8.0	8.0	8.0
RoE	7.3	12.6	15.0	17.5	18.9	17.8	17.7
Core RoE	8.0	13.6	15.9	18.4	19.7	18.4	18.2

Financials and valuations

Income Statement						
	(INR b)					
Y/E March	FY20	FY21	FY22	FY23	FY24	FY25E
Interest Income	748.0	791.2	863.7	1,092.3	1,428.9	1,651.9
Interest Expended	415.3	401.3	389.1	471.0	685.9	801.7
Net Interest Income	332.7	389.9	474.7	621.3	743.1	850.2
-growth (%)	23.1	17.2	21.7	30.9	19.6	14.4
Other Income	164.5	189.7	185.2	198.3	229.6	268.6
Total Income	497.2	579.6	659.8	819.6	972.6	1,118.8
-growth (%)	19.7	16.6	13.8	24.2	18.7	15.0
Operating Exp.	216.1	215.6	267.3	328.7	391.3	451.9
Operating Profits	281.0	364.0	392.5	490.9	581.3	666.9
-growth (%)	19.9	29.5	7.8	25.1	18.4	14.7
Core PPoP	264.6	312.2	385.5	490.4	580.8	666.4
-growth (%)	19.7	18.0	23.5	27.2	18.4	14.7
Provisions	140.5	162.1	86.4	66.7	36.4	63.1
PBT	140.5	201.8	306.1	424.2	544.9	603.8
Tax	61.2	39.9	72.7	105.2	136.0	149.7
Tax Rate (%)	43.5	19.8	23.7	24.8	25.0	24.8
PAT	79.3	161.9	233.4	319.0	408.9	454.0
-growth (%)	135.8	104.2	44.1	36.7	28.2	11.0
						16.3
Balance Sheet						
Y/E March	FY20	FY21	FY22	FY23	FY24	FY25E
Equity Share Capital	12.9	13.8	13.9	14.0	14.0	14.0
Reserves & Surplus	1,152.1	1,461.2	1,688.6	1,985.6	2,369.9	2,760.8
Net Worth	1,165.0	1,475.1	1,702.5	1,999.5	2,384.0	2,774.8
Deposits	7,709.7	9,325.2	10,645.7	11,808.4	14,128.2	16,530.1
- CASA Deposits	3,478.2	4,316.2	5,184.4	5,412.6	5,958.7	6,810.4
Borrowings	1,629.0	916.3	1,072.3	1,193.3	1,249.7	1,524.2
Other Liabilities & Prov.	479.9	587.7	689.8	833.3	953.2	1,105.7
Total Liabilities	10,983.6	12,304.3	14,110.3	15,834.5	18,715.1	21,934.8
Current Assets	1,191.6	1,331.3	1,678.2	1,194.4	1,399.3	1,548.7
Investments	2,495.3	7,955.5	3,102.4	3,623.3	4,619.4	5,450.9
-growth (%)	20.1	218.8	-61.0	16.8	27.5	18.0
Loans	6,452.9	7,337.3	8,590.2	10,196.4	11,844.1	13,916.8
-growth (%)	10.0	13.7	17.1	18.7	16.2	17.5
Net Fixed Assets	84.1	88.8	93.7	96.0	108.6	112.0
Other Assets	759.8	734.1	648.4	732.0	743.8	906.4
Total Assets	10,983.7	17,446.9	14,113.0	15,842.1	18,715.1	21,934.8
						25,581.5
Asset Quality						
GNPA	414.5	414.6	332.9	299.9	279.6	310.7
NNPA	100.5	92.5	64.4	51.5	53.8	47.9
GNPA Ratio (%)	6.13	5.41	3.76	2.87	2.32	2.19
NNPA Ratio (%)	1.56	1.26	0.75	0.51	0.45	0.34
Slippage Ratio (%)	2.2	2.3	2.4	1.9	1.9	2.0
Credit Cost (%)	2.3	2.4	1.1	0.7	0.3	0.5
PCR (Excl Technical write off) (%)	75.7	77.7	80.6	82.8	80.8	84.6
						87.2

E: MOFSL Estimates

Financials and valuations

Ratios

Y/E March	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Yield and Cost Ratios (%)							
Avg. Yield - Earning Assets	8.2	6.1	6.1	8.2	9.1	8.9	8.7
Avg. Yield on loans	9.3	8.3	8.0	8.9	10.1	9.7	9.5
Avg. Yield on Investments	6.4	3.2	3.0	6.2	6.9	7.1	7.0
Avg. Cost-Int. Bear. Liab.	4.7	4.1	3.5	3.8	4.8	4.8	4.7
Avg. Cost of Deposits	4.6	3.9	3.3	3.5	4.6	4.6	4.5
Interest Spread	3.5	2.0	2.5	4.4	4.3	4.1	4.0
Net Interest Margin	3.66	3.00	3.34	4.67	4.75	4.58	4.53
Capitalisation Ratios (%)							
CAR	15.8	18.9	18.9	18.3	16.3	16.1	15.9
Tier I	14.4	17.8	18.0	17.6	15.7	15.6	15.4
-CET-1	13.4	16.8	17.6	17.1			
Tier II	1.4	1.1	0.9	0.7	0.7	0.6	0.5
Business Ratios (%)							
Loan/Deposit Ratio	83.7	78.7	80.7	86.3	83.8	84.2	84.7
CASA Ratio	45.1	46.3	48.7	45.8	42.2	41.2	41.4
Cost/Assets	2.0	1.2	1.9	2.1	2.1	2.1	2.0
Cost/Total Income	43.5	37.2	40.5	40.1	40.2	40.4	39.4
Cost/Core Income	45.0	40.8	41.0	40.1	40.3	40.4	39.4
Int. Expended/Int.Earned	55.5	50.7	45.0	43.1	48.0	48.5	48.1
Other Inc./Net Income	33.1	32.7	28.1	24.2	23.6	24.0	24.1
Empl. Cost/Op. Exps.	38.3	37.5	36.2	36.7	37.9	37.1	37.2
Efficiency Ratios (INRm)							
Employee per branch (in nos)	18.3	18.5	19.0	21.9	23.3	23.5	23.7
Staff cost per employee	0.8	0.8	0.9	0.9	1.0	1.0	1.1
CASA per branch	653.3	819.6	956.9	917.4	913.5	972.1	1,048.5
Deposits per branch	1,448.1	1,770.8	1,964.9	2,001.4	2,165.9	2,359.5	2,532.7
Business per Employee	145.5	170.9	186.7	170.6	170.6	185.2	197.5
Profit per Employee	0.8	1.7	2.3	2.5	2.7	2.8	2.9
Valuation							
	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
RoE (%)	7.3	12.6	15.0	17.5	18.9	17.8	17.7
Core RoE (%)	8.0	13.6	15.9	18.4	19.7	18.4	18.2
RoA (%)	0.8	1.1	1.5	2.1	2.4	2.2	2.2
RoRWA (%)	1.0	1.9	2.6	3.1	3.5	3.4	3.3
Book Value (INR)	177.3	210.8	242.8	285.0	337.0	392.7	458.4
-growth (%)	7.1	18.9	15.2	17.4	18.3	16.5	16.7
Price-BV (x)	5.3	4.4	3.8	3.3	2.8	2.4	2.0
Adjusted Book Value	151.3	187.3	224.0	267.1	319.7	376.5	442.9
-growth (%)	11.6	23.8	19.6	19.3	19.7	17.8	17.6
Adjusted Price-ABV (x)	6.2	5.0	4.2	3.5	2.9	2.5	2.1
Consol Book Value (INR)	190	228	262	306	363	433	503
-growth (%)	7.2	19.9	15.0	16.8	18.5	19.4	16.2
Price-Consol BV (x)	6.1	5.1	4.4	3.8	3.2	2.7	2.3
EPS (INR)	12.3	24.2	33.7	45.8	58.4	64.6	75.2
-growth (%)	135.0	97.0	39.2	36.0	27.5	10.7	16.3
Price-Earnings (x)	94.4	47.9	34.4	25.3	19.9	17.9	15.4
Adj. Price-Earnings (x)	76.0	38.6	27.7	20.4	16.0	14.4	12.4
Dividend Per Share (INR)	1.0	0.0	2.0	5.0	8.5	9.0	9.5
Dividend Yield (%)	0.1	0.0	0.2	0.4	0.7	0.8	0.8

E: MOFSL Estimates

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

NOTES

Explanation of Investment Rating	
Investment Rating	Expected return (over 12-month)
BUY	>=15%
SELL	< - 10%
NEUTRAL	< - 10 % to 15%
UNDER REVIEW	Rating may undergo a change
NOT RATED	We have forward looking estimates for the stock but we refrain from assigning recommendation

*In case the recommendation given by the Research Analyst is inconsistent with the investment rating legend for a continuous period of 30 days, the Research Analyst shall be within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend.

Disclosures

The following Disclosures are being made in compliance with the SEBI Research Analyst Regulations 2014 (herein after referred to as the Regulations).

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Depository participant services & distribution of various financial products. MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at <http://onlinereports.motilaloswal.com/Dormant/documents/ListOf20of%20Associate%20companies.pdf>

MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may: (a) from time to time, have a long or short position in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. (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) discussed herein or act as an advisor or lender/borrower to such company(ies) or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.

MOFSL and / or its affiliates do and seek to do business including investment banking with companies covered in its research reports. As a result, the recipients of this report should be aware that MOFSL may have a potential conflict of interest that may affect the objectivity of this report. Compensation of Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions. Details of pending Enquiry Proceedings of Motilal Oswal Financial Services Limited are available on the website at <https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx>

A graph of daily closing prices of securities is available at www.nseindia.com, www.bseindia.com. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

Regional Disclosures (outside India)

This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL & its group companies to registration or licensing requirements within such jurisdictions.

For Hong Kong:

This report is distributed in Hong Kong by Motilal Oswal Capital Markets (Hong Kong) Private Limited, a licensed corporation (CE AYY-301) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) "SFO". As per SEBI (Research Analyst Regulations) 2014 Motilal Oswal Securities (SEBI Reg. No. INH000000412) has an agreement with Motilal Oswal Capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

For U.S.

Motilal Oswal Financial Services Limited (MOFSL) is not a registered broker - dealer under the U.S. Securities Exchange Act of 1934, as amended (the "1934 act") and under applicable state laws in the United States. In addition MOFSL is not a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts"), and under applicable state laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOFSL, including the products and services described herein are not available to or intended for U.S. persons. This report is intended for distribution only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the Exchange Act and interpretations thereof by SEC (henceforth referred to as "major institutional investors"). This document must not be acted on or relied on by persons who are not major institutional investors. Any investment or investment activity to which this document relates is only available to major institutional investors and will be engaged in only with major institutional investors. In reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the U.S. Securities and Exchange Commission ("SEC") in order to conduct business with Institutional Investors based in the U.S., MOFSL has entered into a chaperoning agreement with a U.S. registered broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

The Research Analysts contributing to the report may not be registered /qualified as research analyst with FINRA. Such research analyst may not be associated persons of the U.S. registered broker-dealer, MOSIPL, and therefore, may not be subject to NASD rule 2711 and NYSE Rule 472 restrictions on communication with a subject company, public appearances and trading securities held by a research analyst account.

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets (Singapore) Pte. Ltd. ("MOCMSPL") (UEN 201129401Z), which is a holder of a capital markets services license and an exempt financial adviser in Singapore. This report is distributed solely to persons who (a) qualify as "institutional investors" as defined in section 4A(1)(c) of the Securities and Futures Act of Singapore ("SFA") or (b) are considered "accredited investors" as defined in section 2(1) of the Financial Advisers Regulations of Singapore read with section 4A(1)(a) of the SFA. Accordingly, if a recipient is neither an "institutional investor" nor an "accredited investor", they must immediately discontinue any use of this Report and inform MOCMSPL.

In respect of any matter arising from or in connection with the research you could contact the following representatives of MOCMSPL. In case of grievances for any of the services rendered by MOCMSPL write to grievances@motilaloswal.com.

Nainesh Rajani
Email: nainesh.rajani@motilaloswal.com
Contact: (+65) 8328 0276

Specific Disclosures

- 1 MOFSL, Research Analyst and/or his relatives does not have financial interest in the subject company, as they do not have equity holdings in the subject company.
- 2 MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- 3 MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- 4 MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- 5 Research Analyst has not served as director/officer/employee in the subject company
- 6 MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- 7 MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- 8 MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- 9 MOFSL has not received any compensation or other benefits from third party in connection with the research report
- 10 MOFSL has not engaged in market making activity for the subject company

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.
- received compensation/other benefits from the subject company in the past 12 months
- any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months

- 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) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.
- Served subject company as its clients during twelve months preceding the date of distribution of the research report.

The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report

Above disclosures include beneficial holdings lying in demat account of MOFSL which are opened for proprietary investments only. While calculating beneficial holdings, It does not consider demat accounts which are opened in name of MOFSL for other purposes (i.e holding client securities, collaterals, error trades etc.). MOFSL also earns DP income from clients which are not considered in above disclosures.

Analyst Certification

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issues, and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations and views expressed by research analyst(s) in this report.

Terms & Conditions:

This report has been prepared by MOFSL and is meant for sole use by the recipient and not for circulation. The report and information contained herein is strictly confidential and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of MOFSL. The report is based on the facts, figures and information that are considered true, correct, reliable and accurate. The intent of this report is not recommendatory in nature. The information is obtained from publicly available media or other sources believed to be reliable. Such information has not been independently verified and no guaranty, representation of warranty, express or implied, is made as to its accuracy, completeness or correctness. All such information and opinions are subject to change without notice. The report is prepared solely for informational purpose and does not constitute an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments for the clients. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. MOFSL will not treat recipients as customers by virtue of their receiving this report.

Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alterations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. 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 MOFSL 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 certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction. Neither the Firm, nor its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information. The person accessing this information specifically agrees to exempt MOFSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOFSL or any of its affiliates or employees responsible for any such misuse and further agrees to hold MOFSL or any of its affiliates or employees free and harmless from all losses, costs, damages, expenses that may be suffered by the person accessing this information due to any errors and delays.

This report is meant for the clients of Motilal Oswal only.

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

Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 - 71934200 / 71934263; www.motilaloswal.com.

Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai- 400 064. Tel No: 022 71881000. Details of Compliance Officer: Neeraj Agarwal, Email Id: na@motilaloswal.com, Contact No.:022-40548085.

Grievance Redressal Cell:

Contact Person	Contact No.	Email ID
Ms. Hemangi Date	022 40548000 / 022 67490600	query@motilaloswal.com
Ms. Kumud Upadhyay	022 40548082	servicehead@motilaloswal.com
Mr. Ajay Menon	022 40548083	am@motilaloswal.com

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/NCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH00000412 . AMFI: ARN : 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance, Bond, NCDs and IPO products.

Customer having any query/feedback/ clarification may write to query@motilaloswal.com. In case of grievances for any of the services rendered by Motilal Oswal Financial Services Limited (MOFSL) write to grievances@motilaloswal.com, for DP to dpgrivances@motilaloswal.com.