10 June 2024 Company update | Sector: Financials

State Bank of India

FINANCIAL SERVICES

BSE SENSEX 76,490

S&P CNX 23,259

TP: INR1,015 (+22%)

Buy

SBI

MOTILAL OSWAL

STOCK INTO	
Bloomberg	SBIN IN
Equity Shares (m)	8925
M.Cap.(INRb)/(USDb)	7423.5 / 88.9
52-Week Range (INR)	912 / 543
1, 6, 12 Rel. Per (%)	-4/25/18
12M Avg Val (INR M)	12758
Free float (%)	43.1

Financials Snapshot (INR b)

Y/E March	FY24	FY25E	FY26E
NII	1,599	1,755	1,969
OP	867	1,107	1,268
NP	611	713	817
NIM (%)	3.1	3.1	3.1
EPS (INR)	68.4	79.9	91.5
EPS Gr. (%)	21.6	16.8	14.5
ABV (INR)	365	432	506
Cons. BV (INR)	448	523	624
Ratios			
RoE (%)	18.8	18.8	18.5
RoA (%)	1.0	1.1	1.1
Valuations			
P/BV (x) (Cons.)	1.9	1.6	1.3
P/ABV (x)	1.6	1.4	1.2
P/E (x)*	8.7	7.5	6.5
*adi for subs			

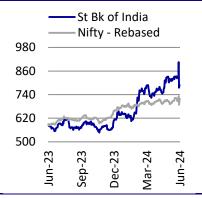
*adj for subs

Shareholding pattern (%)

As On	Mar-24	Dec-23	Mar-23							
Promoter	56.9	56.9	56.9							
DII	23.7	24.0	25.0							
FII	12.0	11.8	10.8							
Others	7.3	7.3	7.3							
	••	• •								

FII Includes depository receipts

Stock Performance (1-year)



Ruling the roost!

CMP: INR831

Stands tall among the best-performing banks globally

- State Bank of India (SBIN) has delivered a strong all-round performance for the past few years and has achieved new milestones in profitability (PAT surpassed INR600b in FY24). The bank has demonstrated considerable improvements in underwriting standards, while the consistent strengthening of its balance sheet has brought NPAs to pristine levels.
- In terms of returns, SBIN has delivered a 34% CAGR over the past two years, with its market cap swelling to ~USD89b. Our assessment of large global banks shows that SBIN has delivered the best-in-class RoE and loan growth among large global banks.
- During FY22-24, SBIN has delivered a ~16% CAGR in loans, outperforming many large peers. Interestingly, the current size of SBIN's balance sheet at INR62t is more than the combined GDP of almost 174 countries in the world. We reckon that this gap is only going to widen as SBIN delivers steady growth going ahead. SBIN has demonstrated high agility and superior execution even at this huge size and is well poised to maintain this momentum.
- A strong liability profile, an enviable CD ratio and robust tech capabilities position SBIN well to capitalize on growth opportunities as a stable policy environment and continued reforms continue to bolster overall economic activity.
- We estimate SBIN to deliver a 16% CAGR in earnings over FY24-26, backed by healthy loan growth, moderation in opex ratios and controlled credit cost (35-40bp), thus resulting in FY26E RoA/RoE of 1.1%/18.5%. SBIN remains one of our top ideas in the sector and we reiterate our BUY rating with a TP of INR1,015.

Remarkable earnings turnaround from losses to profit of INR600b

SBIN has delivered a remarkable earnings turnaround, surpassing the PAT milestone of INR600b in FY24, driven by improvements in asset quality, robust credit growth and steady margins. While earnings during the past three-year period of FY22-24 exceeded that of the prior 20 year (FY02-21), the bank's financial health and asset quality have also notably improved. We estimate the earnings outlook to remain robust and FY26E PAT to surpass INR800b, led by steady NII and controlled opex and provisions. The bank's focus on maintaining a healthy mix of RAM segments, coupled with robust underwriting and strengthening digital capabilities, will enable it to sustain its leadership position within the sector.

SBIN's balance sheet size surpasses GDP of 174 countries worldwide

The bank's balance sheet has grown at a steady pace, reaching INR62t in FY24. Notably, SBIN's balance sheet is equivalent to 21% of India's GDP and surpasses the combined GDP of 174 countries. With India projected to rank among the top three global economies by FY27, SBIN is well poised to expand its lead and play a pivotal role in shaping India's economic landscape, supported by policy continuity, strong governance, and ongoing reforms.

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

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

Investors are advised to refer through important disclosures made at the last page of the Research Report.

Motilal Oswal research is available on www.motilaloswal.com/Institutional-Equities, Bloomberg, Thomson Reuters, Factset and S&P Capital.

Is the valuation line getting blurred between private and PSU banks?

SBIN has undergone a significant transformation, with its RoE rebounding from FY16 lows, aided by improved asset quality, operational efficiency, and technological capabilities, resulting in strong returns vs. top private banks. SBIN has delivered outperformance since Nov'23 with 47% returns vs. 17% returns by Bank Nifty and 46% by the PSU Banks index. Historical concerns, such as high NPAs and slow loan growth, are diminishing as SBIN maintains commendable credit growth and a favorable CD ratio. Despite already delivering impressive returns over prior years, SBIN's consistent outperformance in RoE and leadership position in key operating metrics (details inside) will enable the bank to deliver strong returns.

The stage is becoming bigger: How is SBIN faring globally?

Compared to top global banks, SBIN's performance on key metrics highlights its remarkable turnaround, with the best-in-class RoE and impressive loan growth. SBIN has thus emerged as a standout entity not only in India but also among large global banks. In terms of returns over the past one year, SBIN with 44% return ranks second among the 14 large global banks that we have analyzed. As India progresses toward its goal of becoming a developed nation by 2047, SBIN's strong return ratios and healthy growth momentum should keep investor interest in the bank intact, potentially elevating its position in the global ranking and solidifying its status as a compelling investment opportunity.

Building strong digital capability; YONO emerges as key growth driver

SBIN's commitment to digital innovation includes collaborations with fintech companies and startups, exemplified by initiatives like the API Hub. This digital transformation extends to corporate banking with 'YONO for Business,' offering comprehensive digital solutions, and government banking, facilitating efficient collection and payment mechanisms. SBIN remains a leader in debit card spending, POS terminals, ATM transactions, and mobile banking transactions (both in volume and value terms). SBIN has more than 500m customers with ~74m YONO users. YONO records average daily logins of over 12.8m, with fresh ~13m new registrations in FY24.

Opex set to moderate; estimate C/I ratio to decline to 51% (59% in FY24)

SBIN in FY24 witnessed high opex of INR158.8b due to additional provisions for a 17% wage hike settlement and one-off pension provisions, resulting in a C/I ratio of ~59%. With the full impact of wage revision and pension already factored in, the overall wage bill is expected to moderate significantly to INR650-700b in FY25, leading to an anticipated reduction in cost ratios to 51% from 59% in FY24. Additionally, the rationalization of branches and increased usage of digital channels like YONO should boost operating efficiency, facilitating a gradual moderation in cost ratios.

Strengthened underwriting to keep credit costs in check

SBIN's asset quality has seen steady improvements, supported by healthy underwriting and a consistent recovery from the TWO pool. With controlled slippages and the best-in-class slippage rate of 0.6% in FY24, the bank's GNPA/NNPA ratios moderated to 2.24%/0.57% in 4QFY24, while PCR stood 75% (91.9% including TWO). With a restructured book at 0.5% of loans and a negligible SMA pool, incremental slippages are expected to remain low. The bank's conservative guidance for controlled credit cost at <50bp, with efforts to keep it at 25-30bp, reflects a proactive approach to maintaining strong asset quality. We estimate GNPA/NNPA ratios to moderate to 1.97%/0.48% by FY26E, with credit cost likely to sustain at ~40bp over FY25-26E.

Valuation and view

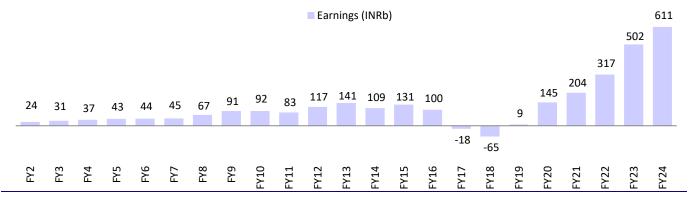
SBIN remains well positioned to deliver sustainable growth with high profitability, led by healthy loan growth, controlled opex and provisions. The management has guided for broadly stable margins going forward as the bank has levers in place (CD ratio, MCLR re-pricing) to mitigate the impact of the elevated cost of deposits. SBIN is well positioned to sustain its growth trajectory, supported by a low CD ratio, strong underwriting and continued momentum in YONO. The asset quality performance remains strong with consistent improvements in headline asset quality ratios. SBIN is one of our preferred ideas in the sector. We estimate a 15% CAGR in net profit over FY24-26E, with FY26E RoA/RoE of ~1.1%/18.5%. **Reiterate BUY with a revised TP of INR1,015 (1.5x FY26E ABV + INR235 from subs).**

SBIN's earnings turnaround: From losses to INR600b PAT

Three-years PAT (FY22-24) equivalent to prior 20 years PAT (FY02-21)

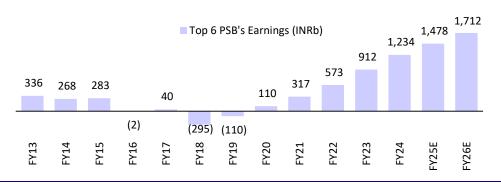
- SBIN has showcased a remarkable earnings turnaround, with profit crossing INR600b in FY24. This is attributed to significant improvements in asset quality, robust credit growth, and steady margins, which have collectively driven SBIN's impressive earnings performance in recent years. SBIN's aggregate earnings over FY22-24 surpassed its cumulative earnings over FY02-21, highlighting a substantial shift in the bank's financial health and operational efficiency.
- The bank's earnings growth trajectory remains promising, primarily fuelled by steady net interest income and controlled opex and provisions. We estimate SBIN to deliver PAT of INR816b by FY26.
- The bank's focus on maintaining a healthy mix of RAM segments further strengthens its revenue generation capabilities and enhances long-term sustainability. SBIN's consistent efforts to drive operational efficiency, digital transformation, and prudent risk management will enable it to sustain its leadership position and differentiate itself within the sector over the medium term.

Exhibit 1: SBIN's three-year earnings of INR1,430b (FY22-24) is equivalent to its prior 20-year PAT of INR1,429b (FY02-21)



Source: MOFSL, Company

Exhibit 2: Earnings of top six PSBs have reached INR1.2t in FY24



Source: Company, MOFSL

*Six PSBs under MOFSL coverage

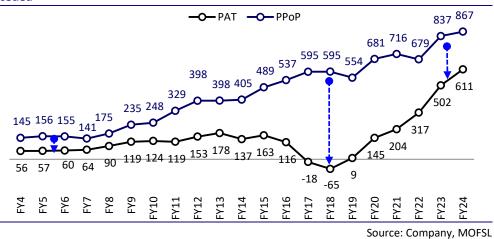


Exhibit 3: Gap between PPoP and PAT has narrowed as provisioning expenses have receded

Why this SBIN is different vs the previous upcycles?

Historical multiples may not yield right assessment of future valuations

- SBIN's RoE was under pressure in FY16 due to high levels of NPAs and slower credit growth. However, the bank has seen a remarkable transformation with improvements in asset quality, enhanced operational efficiency backed by robust technological capabilities, and a sharp pickup in earnings. SBIN's RoE has thus not only recovered to its historically high level but also stands higher than the average of the three largest private sector banks, which differentiates it from the previous uptrends.
- Historical issues, such as high NPAs, slower loan growth and muted profitability, have created a bias against the bank. However, these concerns are becoming less relevant as SBIN's asset quality and operational efficiency have significantly improved, enabling it to deliver strong return ratios on a sustainable basis. SBIN has delivered commendable credit growth at a ~16 CAGR during FY22-24 vs. average 15% by other five PSU banks under our coverage and average ~17% by the three largest private banks. The current CD ratio further positions SBI favorably to deliver sustainable credit growth.
- Can SBIN re-rate further after 47% return since Nov'23? SBIN has delivered 94% returns over the past three years vs. 42% returns by Bank Nifty. The bank's consistent outperformance in RoE and strong key operating metrics (discussed below) will enable SBIN to sustain strong returns, besides delivering 47% returns since Nov'23 vs. 17% by Bank Nifty and 46% by the PSU Banks index.

1. Achieved RoE leadership alongside better earnings quality

- SBIN has been outperforming in RoE compared to the average of three largest private banks. Over the years, SBIN has demonstrated resilience and strategic focus in key areas such as asset quality, operational efficiency and technological upgrades.
- These efforts have helped SBIN achieve the leadership position in RoE even as the contribution of treasury gains has declined considerably and even as the bank has incurred high opex in recent years due to both wage and one-off pension provisions.
- During FY23-24, SBIN delivered an impressive average RoE of 18.4%, surpassing the average RoE of the three largest private banks, which stood at 17.4%. It is particularly interesting to note how the RoE gap between SBIN and private banks has evolved over time despite high opex incurred by SBIN in recent years.
- We expect SBIN to maintain its RoE leadership as we estimate average RoE of 18.7% over FY25-26E. The average RoE for other large private banks is expected to be 16.7% during the same period.

Gap in average RoE

FY25-26E

between SBI and three

largest private banks is likely to widen further over

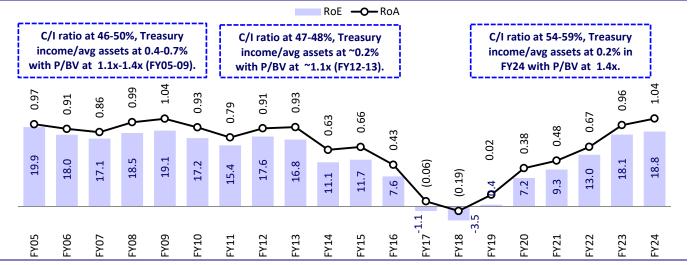
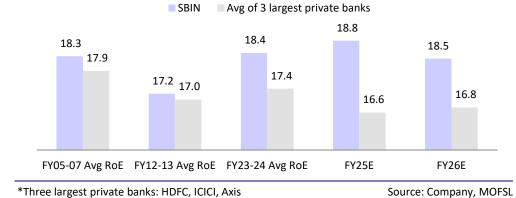


Exhibit 4: SBIN has superseded the profitability it delivered in previous uptrends despite high C/I and low treasury gains



Exhibit 5: Comparison of SBIN's RoE vs. average of three largest private banks



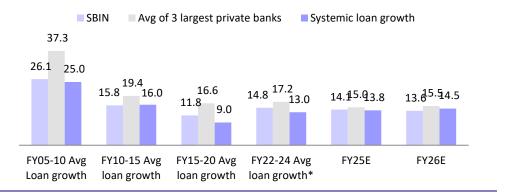
Source: Company, MOFSL

2. SBIN delivered 16.4% avg. credit growth over FY22-24, outpacing most peers

- SBIN delivered robust credit growth of average ~16.4% during FY22-24. The retail business has remained the key growth driver as it accounted for ~36% of the total loan book (vs. ~34% in FY21). On the wholesale front, SBIN is witnessing a healthy pick-up in corporate loan growth, led by improved demand and utilization even as the bank focuses on building a high-quality portfolio.
- Historically, there has been a significant credit growth differential between private banks and SBIN, and the bank's recent performance indicates a substantial narrowing of this gap. In FY22-24, the difference in credit growth rates between SBIN and private banks (excluding HDFC Ltd.) narrowed to ~236bp. This underscores SBIN's improved underwriting and strategic focus on loan book expansion.
- The management expects loan book to grow ~13-15% over FY25, which is in line with the estimated systemic growth and only slightly lower than our estimated growth trend for top private banks.

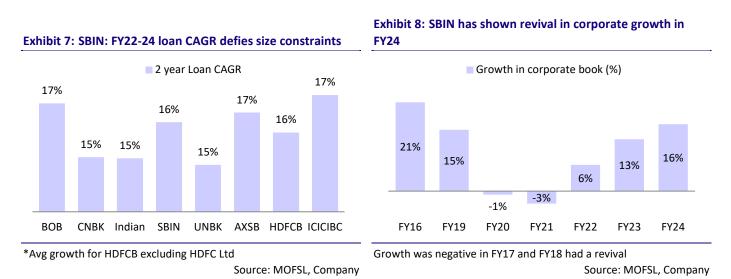
During FY22-24, average loan growth for SBI stood at 14.8% vs. 17.2% for three largest private banks, (excluding HDFC Ltd).

Exhibit 6: SBIN's loan growth in FY22-24 suggests narrowing of credit growth differential between private banks and SBIN



*excluding HDFC Ltd loan in system and private banks

Source: Company, MOFSL



3. Low CD ratio puts SBIN in enviable position – rate cycle still uncertain

- The bank's low CD ratio, robust underwriting and a potential recovery in the corporate capex cycle place SBIN in an enviable position to deliver sustainable credit growth.
- SBIN's domestic CD ratio currently stands at 68.3% vs. average of 75% for other five PSU banks under our coverage and a range of 84-104% for top three private banks.
- The regulator's focus on improving the CD ratio and aligning loan growth accordingly may constrain the growth for certain private banks, thus further positioning SBIN favorably on the growth front.

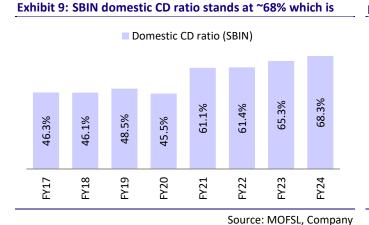
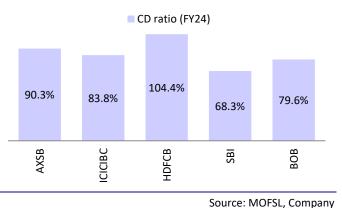


Exhibit 10: ...significantly below most of its peers and top private banks



4. Asset quality metrics improve significantly backed by robust underwriting

- SBIN's continued focus on improving its underwriting standards and strengthening its balance sheet has helped the bank consistently improve asset quality ratios. The bank's NNPA ratio improved to 0.6% in FY24 and its coverage ratio stood at 74% (91.9% including TWO).
- SBIN's NNPA ratio is now comparable to that of large private banks, with the gap narrowing substantially from 143bp in FY05-07 to a mere 25bp in FY23-24.
- Historically, SBIN's PCR has lagged behind that of large private banks. During FY12-13, SBIN's PCR stood at 58.6% vs. average of 77% for top private banks. However, with the consistent strengthening of its balance sheet, SBIN has significantly improved its PCR, reaching 74% in FY24 vs. average of ~76% for top private banks. Higher PCR, including TWO, at 91.9% further demonstrates SBIN's enhanced ability to benefit from continued recoveries and thus cover potential loan losses.
- We estimate SBIN's NNPA ratio to decline to 0.5% by FY26E, thus aligning it with those of private banks. This improvement is expected to keep credit cost in check, thereby bolstering overall profitability.

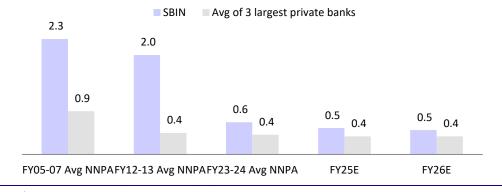


Exhibit 11: NNPA gap between SBIN and private banks expected to narrow going ahead

*HDFC, ICICI, Axis- 3 largest private banks

Source: Company, MOFSL

SBIN's continued efforts in improving its underwriting and balance sheet strengthening have led to significant improvements in asset quality metrics

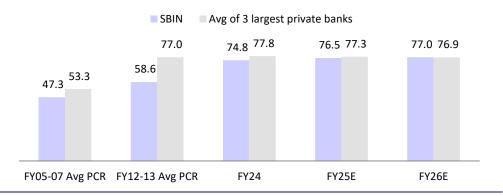


Exhibit 12: SBIN's current PCR has improved to 74% comparable to private banks at 77.8%; estimate gap to further narrow over FY24-26E

*HDFC, ICICI, Axis- 3 largest private banks

Source: Company, MOFSL

- 5. SBIN: Valuation gap narrows partly driven by significant de-rating in several private banks; SBIN still trades at 6.4x FY26E EPS
- Historical trading multiples will not be a right reflection of SBIN's future valuations as the franchise has evolved considerably and is now performing as well as private banks on most metrics.
- We note that SBIN has historically traded at peak multiples of 1.1-1.2x in previous uptrends. This implies a discount of 190-195% vs. the trading multiples of top private banks during that period.
- The current valuation multiple at 1.4x is on the higher end; however, sustained profitability, further impetus on credit cycle and SBIN's strong liquidity position the bank well to capitalize on growth opportunities.
- We, thus, believe that the ongoing operational improvements, digital initiatives and a solid asset quality outlook make SBIN a compelling investment opportunity for the next few years. SBIN currently trades at 1.2x FY26E ABV and 6.4x FY26E EPS, which looks inexpensive and offers room for continued performance.

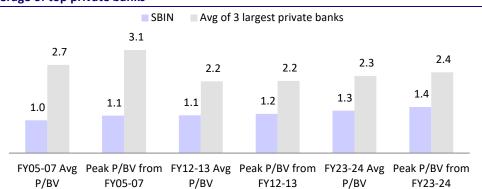


Exhibit 13: SBIN currently trades at 1.1x FY26E BV (1.2x FY26E ABV), a 55% discount to average of top private banks

Source: Company, MOFSL

SBIN can see further rerating even after 47% returns since Nov'23 as its P/BV is much lower than that of private banks, whereas SBIN is reporting RoE greater than that of three largest private banks.

SBIN's balance sheet size surpasses GDP of 174 countries

Estimate SBIN's balance sheet to see 11% CAGR over the medium term

- SBIN's balance sheet has witnessed a remarkable ascent, scaling to an impressive INR62t in FY24. The bank is thus positioned well to support the nation's growth as India has already become the fifth largest economy in the world and is growing at a fastest pace amongst the large economies. As per IMF projections, India's GDP ranking is going to further improve to amongst top-3 by FY27.
- Interestingly, we note that SBIN's balance sheet is now equivalent to 21% of India's GDP and surpasses the combined GDP of 174 countries. India's stable economic growth, supported by policy continuity, strong governance and continued reforms will enable SBIN to further expand its lead and play a pivotal role in India's economic landscape.
- The below list shows the 22 countries whose GDP is greater than SBIN's balance sheet size and some major countries from among 174 countries whose GDP is less than the balance sheet of SBIN.

Exhibit	14: Out of total 196 countries,	SBIN's BS size is	Exhibit	15:more than that of 174 cour	ntries
Rank	Name of countries	GDP (USD b)	Rank	Name of countries	GDP (USD b)
1	United States	28,781	16	Indonesia	1,476
2	China	18,533	17	Netherlands	1,143
3	Germany	4,591	18	Turkey	1,114
4	Japan	4,110	19	Saudi Arabia	1,106
5	India	3,937	20	Switzerland	938
6	United Kingdom	3,495	21	Poland	845
7	France	3,130	22	Taiwan, China	803
8	Brazil	2,331	23	SBIN's Balance sheet size	742
9	Italy	2,328	24	Belgium	655
10	Canada	2,242	26	Argentina	604
11	Russia	2,057	28	Thailand	549
12	Mexico	2,017	29	Austria	541
13	Australia	1,790	31	UAE	528
14	Korea	1,761	33	Singapore	525
15	Spain	1,647	40	Hong Kong	407

Exhibit 14: Out of total 196 countries SRIN's RS size is

Source: IMF, World economic data

Source: IMF, World economic data

The stage is becoming bigger: Assessing SBIN's performance vs global banks?

SBIN has delivered best-in-class RoE among large global banks

- Assessing SBIN's performance on key metrics vs. top global banks sheds light on its remarkable turnaround over the past few years. This analysis reveals that SBIN stands out not only in India but also on the global stage.
- SBIN has outshined its global peers with a best-in-class RoE alongside an impressive CAGR in loans over the past few years, demonstrating consistent growth and profitability amid dynamic market conditions.
- The bank has delivered ~44% returns over the past one year, ranking second among the 14 large global banks we have studied (refer Exhibit 16).
- Stronger return ratios and sustained growth momentum as India progresses on its ambition of becoming a developed nation by 2047 will keep investor interest in SBIN intact over the coming years. SBIN is well positioned to move up the global rankings and remains a compelling investment avenue.

Top 14 global banks	1Yr return (%)	3Yr return (%)	EPS CAGR (CY21-23)	Loans CAGR (CY21-23)
JP Morgan Chase & Co	42	11	3%	11%
Bank of America	36	1	-7%	5%
ICBC	9	8	-3%	6%
Wells Fargo	39	12	-1%	1%
Agricultural Bank of China	7	15	2%	9%
China Construction Bank	10	5	0%	7%
Bank of China-HK	19	17	-2%	7%
HSBC Holdings plc	17	25	36%	-5%
Royal Bank of Canada	18	10	-7%	3%
CommBank/CBA	31	12	-3%	1%
Mitsubishi UFJ	70	44	8%	-8%
Citigroup Inc	28	-3	-37%	1%
China Merchants Bank	1	-12	7%	2%
BNP Paribas	12	12	4%	1%
State Bank of India	44	94	39%	16%

Note: Global banks metrics are as on CY23, SBIN as on FY24

Source: Company, MOFSL

Exhibit 17: Global Banks: SBIN has delivered best-in-class RoE amongst global banks

	Market Cap				
Top 14 global banks	(USD b)	RoA	RoE	P/BV (x)	PE (x)
JP Morgan Chase & Co	574	1.31	16.9	1.63	10.2
Bank of America	311	0.85	9.8	1.01	10.7
ICBC	254	0.86	10.7	0.50	4.9
Wells Fargo	203	1.00	11.0	1.07	9.4
Agricultural Bank of China	201	0.73	11.6	0.40	3.6
China Construction Bank	184	0.91	11.6	0.36	3.2
Bank of China-HK	172	0.76	10.1	0.36	3.7
HSBC Holdings plc	165	0.79	13.8	0.92	7.1
Royal Bank of Canada	150	0.74	13.8	1.44	10.6
CommBank/CBA	138	0.82	13.9	2.33	16.6
Mitsubishi UFJ	130	0.29	6.5	0.59	9.3
Citigroup Inc	118	0.38	4.2	0.52	15.0
China Merchants Bank	118	1.39	16.6	0.76	4.8
BNP Paribas	76	0.42	9.4	0.65	10.2
State Bank of India	89	1.00	18.80	1.40	8.5

Note: Global banks metrics are as on CY23, SBIN as on FY24

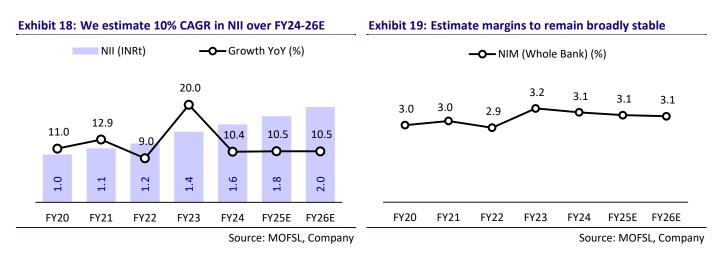
Source: Company, MOFSL

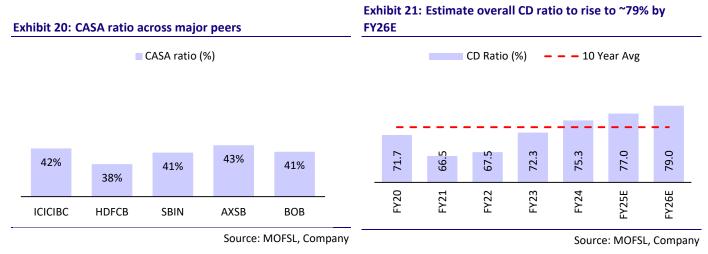
SBIN deposit base grew 11% YoY to INR49.2t in FY24 and CASA mix stood at healthy 41%.

Deposit franchise robust with focus on retail deposits

Margins to remain broadly stable

- SBIN's deposit base grew 11% YoY to INR49.2t in FY24 despite tough competition in the sector. The bank does not foresee any challenges in garnering deposits and maintains its leadership position with a deposit market share of 24% in FY24.
- We estimate a healthy ~11% CAGR in deposits over FY24-26 as the bank maintains its focus on garnering granular retail deposits. The bank is already favorably positioned amid the current environment, with its domestic creditdeposit ratio at ~68% - significantly below most peers.
- SBIN does not expect much increase in deposit rates (though the rates have increased recently under shorter-tenure buckets), though rates may remain elevated in the near term. The bank expects NIMs to be broadly stable with twin levers such as CD ratio and MCLR repricing. The bank's CD ratio remains under control, and the management expects to improve its domestic LDR to 75%. We, thus, estimate a ~10% CAGR in NII over FY24-26, supported by broadly stable margins.







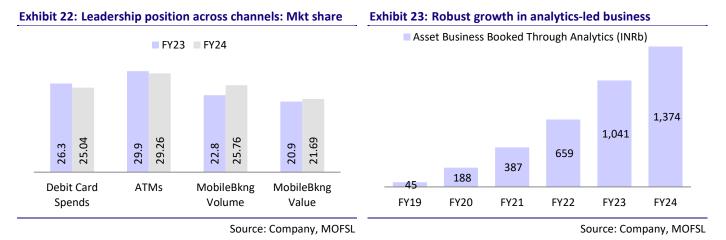
Building strong digital capability

YONO continues to gain scale

- The YONO app, SBIN's flagship digital offering, is helping the bank accelerate its digital footprint in all areas of operations. The primary objective of YONO is to create momentum in customer acquisition at a low cost and facilitate cross-sell opportunities for existing customers.
- SBIN rolled out YONO Krishi for the agriculture segment. The bank has also unveiled a similar offering for its corporate customers to cater to their varied needs seamlessly.
- Furthermore, SBIN's digital transformation is not limited to retail banking but also encompasses corporate banking, with initiatives like 'YONO for business,' which provides comprehensive digital banking solutions to corporate clients.
- SBIN has more than 500m customers with ~74m YONO users. Average daily logins on YONO is >12.8m. YONO clocked ~13m registrations in FY24.

Digital leadership across channels

SBIN has established leadership in debit card spending, POS terminals, ATMs, and mobile banking transactions (both in volume and value terms). Given its huge customer base and focus on continuous improvement in its digital experience, the bank will maintain its pole position in most segments.



- The bank has a 25% market share in remittances and successfully processed the peak volume of UPI transactions ~120m transactions every day in FY24.
- SBIN's ATM network accounted for ~29% of the country's total ATM. Further, the bank had a 21.6% market share in mobile banking transactions in terms of value as of FY24.
- Due to the extensive use of analytics in sourcing/generating business, the bank is continuously increasing the size of the book generated through these mechanisms.
- Pre-approved personal loan (PAPL) is a focus area for the management as it generates higher growth with quality underwriting practices. Credit profiling too is relatively easier. Through YONO, SBIN has started offering pre-approved digital 2W loans.
- The bank has been increasingly adopting the use of analytics to offer digital loans and credit cards to customers, with appropriate credit limits, based on the borrower's behavior.

Opex set to moderate; cost-ratios to improve gradually

Estimate C/I ratio to decline to ~51% by FY26E vs. 59% in FY24

- SBIN incurred high opex as it made additional provisions for a 17% wage hike settlement and also provided forone-off pension provisions. The bank thus made total provisions of INR158.8b toward arrears of wages due for the revision in FY24. The C/I ratio thus stood on the higher side at ~59% in FY24.
- With the full impact of wage revision/pension already taken in FY24, we estimate overall wage bill to moderate significantly to INR650-700b in FY25. We thus expect cost ratios to moderate to 51% from 59% in FY24.
- Further, the rationalization of branches with focus on increasing the business per branch and rising usage of digital channels should boost YONO's operating efficiency, thus enabling a gradual moderation in cost ratios.

Exhibit 24: Opex grew higher at 28% due to wage revision

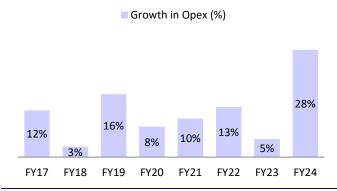
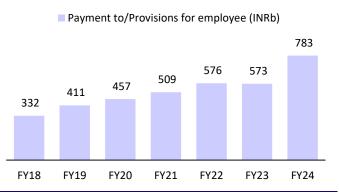
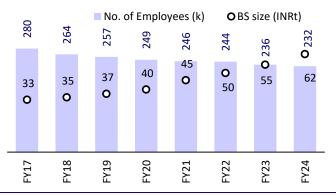


Exhibit 25: Provision for employees increased to INR783b due to wage revision



Source: Company, MOFSL

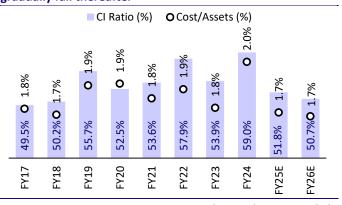
Exhibit 26: SBIN's employee count remains in control while balance sheet continues to expand



Source: Company, MOFSL

Source: Company, MOFSL

Exhibit 27: Estimate C/I ratio to fall to ~51% by FY26E and gradually fall thereafter



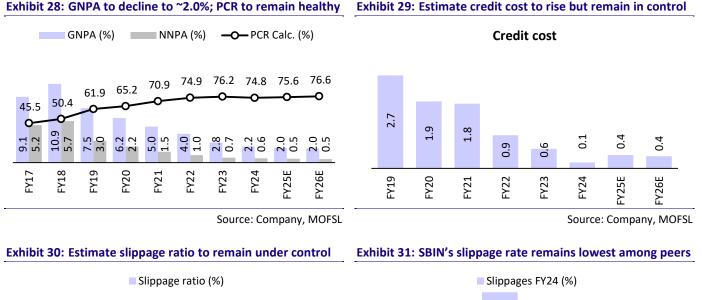
Source: Company, MOFSL

SBIN's slippage ratio at 0.6% during FY24 is the lowest among top banks

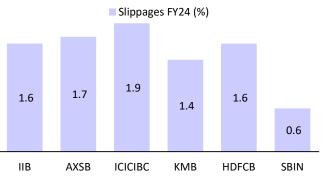
Asset quality robust; estimate credit cost to stay benign

Low SMA + restructured book to drive controlled slippages

- SBIN's asset quality has improved steadily, supported by healthy underwriting and continued recovery from the TWO pool. It has reported healthy recoveries from their large written-off asset pool, which, along with controlled slippages, has enabled consistent improvements in asset quality ratios. The bank's GNPA/NNPA ratios moderated to 2.24%/0.57% in 4QFY24, while the PCR stood at 75% (91.9% including TWO).
- The bank reported a best-in-class slippage rate of 0.6% for FY24 one of the best among peer banks. The bank's restructured book stood at INR173b (0.5% of loans). Besides, the SMA pool for the bank also moderated to 9bp (lowest among peers), which will keep incremental slippages in check. The bank has conservatively guided for controlled credit cost at <50bp and the management is making efforts to keep it at 25-30bp.</p>
- We believe that improvement in underwriting standards, negligible SMA book, steady recovery from written-off accounts and higher provisions on stressed accounts should drive sustainable asset quality performance. We thus estimate GNPA/NNPA ratios to moderate to 1.97%/0.48% by FY26E and credit cost to undershoot long-term trends at ~40bp over FY25-26E vs. ~20bp in FY24.

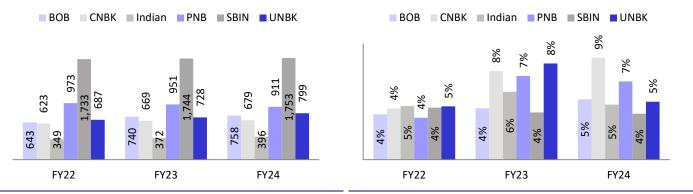






Source: Company, MOFSL

Exhibit 32: TWO pool across PSU banks



Source: Company, MOFSL

Source: Company, MOFSL

Exhibit 34: Trend in PCR (incl TWO) saw a healthy trend across PSU banks

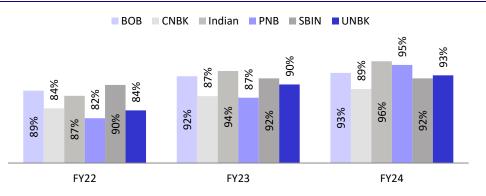


Exhibit 33: Recovery from NPA as a % of TWO across banks

Exhibit 35: SMA book of SBIN remains lowest among peers

INR b		Restructur	SMA1 & 2 book				
	Absolute	Mar'22	Mar'23	Mar'24	Mar'22	Mar'23	Mar'24
BOB	NA	2.44	1.50	NA	0.44	0.32	0.20
SBIN	172.8	1.13	0.80	0.47	0.13	0.10	0.09
INBK	86.0	4.73	2.51	1.67	0.93	0.54	0.47
PNB	NA	2.36	1.32	NA	0.02	0.01	0.15
UNBK	133.7	2.99	2.2	1.48	0.09	0.45	0.26
СВК	NA	2.77	NA	NA	0.7	0.4	0.53

Source: Company, MOFSL

Restructured book stands lower at 47bp in Mar'24 vs. 80bp in Mar'23.

CET-1 remains comfortable; strong internal accruals to drive growth

- SBIN has delivered steady growth for the past few years even as the bank has not raised any capital over the past seven years. A strong pick-up in profitability and controlled RWA growth have enabled the bank to grow its balance sheet without consuming much capital.
- In fact, over FY22-24, SBIN reported a 42bp expansion in its CET-1 even as it reported a 16% CAGR in loans and also bore the impact of the increase in risk-weight on its large unsecured loan (X-press loan portfolio at 9.2% of overall loans) and NBFC loans.
- The bank's CET-1 has, thus, improved to 10.36% in FY24 and the bank remains well positioned to deliver healthy loan growth on the back of strong internal accruals as RoE sustains at ~19%.
- SBIN has incubated and led many successful and formidable subsidiaries, which it can monetize over the coming years as and when there is a need for any capital requirement.
- The bank also owns a 26.13% stake in Yes Bank and the bank has received the government's approval to divest its entire stake, which is currently valued at INR192b after the lock-in period, which ended in Mar'23. This will enable a healthy release of capital for SBIN and bolster its capitalization levels by ~50bp.

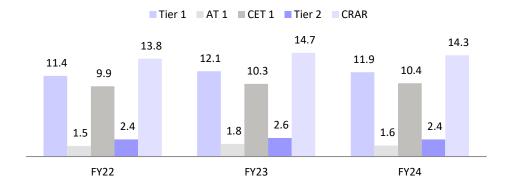


Exhibit 36: SBIN's CAR stood at healthy ~14%, while CET-1 improved to 10.4%

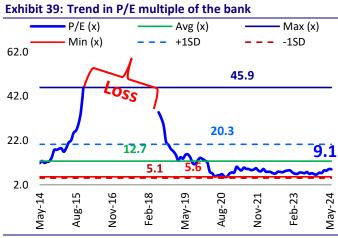
Valuation and view

- SBIN has followed a stringent provisioning policy and strengthened its balance sheet by creating higher provisions. It raised its PCR (including TWO) to ~92% in 4QFY24 (from 65% in 1QFY18) and held a (~90%) provision coverage on corporate NPAs.
- The bank has one of the best liability franchises (CASA mix: ~41%). This puts SBIN in a better position to manage pressure on yields and support margins to a large extent in a rising interest rate scenario.
- Headline asset quality improved in 4Q, as fresh slippages declined to INR40b (0.5% of loans). GNPA/NNPA ratios declined to 2.24%/0.57% in 4QFY24 as the rate of reductions outpaced slippages. We expect slippages to remain under control going forward and estimate a credit cost of ~40bp over FY25-26.
- Among PSU banks, SBIN remains the best play on a gradual recovery in the Indian economy, with a healthy specific PCR (~75%), Tier I of ~11.9%, a strong liability franchise, and improved core operating profitability.
- BUY with a TP of INR1,015: SBIN remains well positioned to deliver sustainable growth with high profitability, led by healthy loan growth and controlled opex and provisions. The management has guided for broadly stable margins going forward as the bank has levers in place (CD ratio, MCLR re-pricing) to mitigate the impact of a high cost of deposits. SBIN is well-positioned to sustain its growth trajectory, supported by a low CD ratio, strong underwriting and continued momentum in YONO. Its asset quality performance remains strong with consistent improvements in headline asset quality ratios. SBIN is one of our preferred ideas in the sector. We estimate a 15% CAGR in net profit over FY24-26E, with FY26E RoA/RoE of ~1.1%/18.5%. Reiterate BUY with a revised TP of INR1,015 (1.5x FY26E ABV + INR235 from subs).

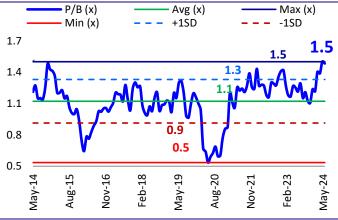
Sl no.	Date		Title	SBIN Price	SBIN TP	Report Link
1	10-May-24	*	Strong performance; earnings continue to scale new highs	820	925	<u>Report link</u>
2	26-Feb-24	*	Financials: PSBs: Sustained profitability to drive stock performance	759	860	<u>Report link</u>
3	15-Feb-24	*	Earnings to gain pace in FY25 after opex blip	743	860	<u>Report link</u>
4	19-Dec-23	*	Public Sector Banks: Well poised for Re-rating 2.0; 1% RoA – from aspirational to sustainable; valuations remain attractive	649	800	<u>Report link</u>
5	30-Nov-23	*	Business outlook steady; internal accruals to support growth momentum	565	700	<u>Report link</u>
6	17-Jun-23	*	Balance sheet strengthens further; RoA/RoE surpass long-term average	571	700	<u>Report link</u>
7	21-Mar-23	*	Margin outlook positive; aiming for sustainable RoA of >1%	505	725	<u>Report link</u>
8	16-Jan-23	*	Public Sector Banks: The Homecoming of RoA!	600	735	<u>Report link</u>
9	22-Nov-22	*	Earnings momentum on track; margin outlook positive; Expects loan growth to sustain at 14-16% in FY23	607	700	<u>Report link</u>
10	19-Jul-22	*	Is 450 the new 250?	498	600	<u>Report link</u>
11	13-Jun-22	*	Well poised to sustain the growth momentum	446	600	<u>Report link</u>
12	24-Mar-22	*	Well on track to achieve profitability goals	487	675	<u>Report link</u>
13	20-Aug-21	*	PPOP conversion to PAT gaining traction; asset quality resilient	407	600	<u>Report link</u>
14	08-Jun-21	*	Balance sheet fortification continues; earnings to gain pace	427	530	<u>Report link</u>
15	11-Nov-20	*	Asset quality steady; PPoP->PAT conversion set to improve	234	300	<u>Report link</u>
16	22-Jun-20	*	Deposit share improves further; Retail loans grow 15% YoY	188	280	<u>Report link</u>

Exhibit 38: SBIN: SOTP-based valuation

Name	Stake (%)	Value for SBIN (INRb)	Value per Share (at our PT)	% of total value	Rationale
SBIN Bank	100	6,957	780	77	1.2x FY26E ABV
Life insurance	55	961	108	11	2.3x FY26E EV
Cards	69	622	70	7	23x FY26E PAT
Asset management	63	483	54	5	30x FY26E PAT
General insurance	70	82	9	1	25x FY26E PAT
YES Bank	26	184	21	2	Based on CMP
Capital Market/DFHI/Others		292	33	3	
Total Value of Subs		2,625	294	29	
Less: 20% holding disc		525	59	6	
Value of Subs (Post Holding Disc)		2,100	235	23	
Target Price		9,057	1,015		







Source: MOFSL, Company

Source: MOFSL, Company

Exhibit 41: DuPont Analysis: Estimate RoA to improve gradually over FY25-26E

Y/E MARCH	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Interest Income	6.74	6.25	5.79	6.32	7.10	7.31	7.30
Interest Expense	4.17	3.64	3.25	3.57	4.36	4.61	4.56
Net Interest Income	2.57	2.61	2.54	2.76	2.73	2.70	2.74
Fee income	0.96	0.88	0.78	0.72	0.68	0.62	0.60
Trading and others	0.22	0.14	0.07	-0.03	0.20	0.22	0.24
Non-Interest income	1.19	1.03	0.85	0.70	0.88	0.84	0.84
Total Income	3.76	3.63	3.39	3.45	3.62	3.54	3.58
Operating Expenses	1.97	1.95	1.96	1.86	2.13	1.83	1.81
Employee cost	1.20	1.20	1.21	1.09	1.34	1.04	1.02
Others	0.77	0.75	0.75	0.77	0.80	0.79	0.79
Operating Profit	1.79	1.69	1.43	1.59	1.48	1.70	1.77
Core Operating Profit	1.56	1.54	1.36	1.62	1.28	1.48	1.53
Provisions	1.13	1.04	0.51	0.31	0.08	0.23	0.24
РВТ	0.66	0.65	0.91	1.28	1.40	1.47	1.52
Тах	0.28	0.17	0.25	0.32	0.35	0.37	0.39
RoA	0.38	0.48	0.67	0.96	1.04	1.10	1.14
Leverage (x)	18.9	19.4	19.6	18.9	18.0	17.2	16.3
RoE	7.2	9.3	13.0	18.1	18.8	18.8	18.5

Total Consol. earnings of SBIN grew 23% YoY in FY24

Exhibit 42: SBI standalone and its subsidiaries earnings

	4QFY23	3QFY24	4QFY24	FY23	FY24	YoY gr. (%)	QoQ gr. (%)
Stand bank	166.9	91.6	207.0	502.3	610.8	21.6	125.9
SBI Life	7.8	3.2	8.1	17.2	18.9	10.0	151.9
SBI Funds Management	3.3	5.4	5.8	13.3	20.6	55.0	6.4
SBI cards	6.0	5.5	6.6	22.6	24.1	6.7	20.8
SBI General	0.6	0.8	1.1	1.8	2.4	30.4	40.0
SBI Caps	1.3	4.3	7.4	7.3	16.3	124.9	73.2
Total	185.8	110.8	235.9	564.5	693.1	22.8	112.9

Source: Company, MOFSL

Financials and valuations

Income Statement								(INRb)
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Interest Income	2,428.7	2,573.2	2,651.5	2,754.6	3,321.0	4,151.3	4,750.7	5,245.0
Interest Expense	1,545.2	1,592.4	1,544.4	1,547.5	1,872.6	2,552.5	2,995.6	3,275.9
Net Interest Income	883.5	980.8	1,107.1	1,207.1	1,448.4	1,598.8	1,755.1	1,969.1
Change (%)	18.0	11.0	12.9	9.0	20.0	10.4	9.8	12.2
Non-Interest Income	367.7	452.2	435.0	405.6	366.2	516.8	542.7	602.4
Total Income	1,251.2	1,433.1	1,542.1	1,612.7	1,814.6	2,115.6	2,297.7	2,571.4
Change (%)	4.7	14.5	7.6	4.6	12.5	16.6	8.6	11.9
Operating Expenses	696.9	751.7	826.5	934.0	977.4	1,248.6	1,191.1	1,303.2
Pre Provision Profits	554.4	681.3	715.5	678.7	837.1	867.0	1,106.6	1,268.3
Change (%)	-6.8	22.9	5.0	-5.1	23.3	3.6	27.6	14.6
Core Provision Profits	522.9	595.6	655.2	646.5	850.7	748.6	964.5	1,097.8
Change (%)	13.5	13.9	10.0	-1.3	31.6	-12.0	28.8	13.8
Provisions (excl tax)	531.3	430.7	440.1	244.5	165.1	49.1	151.5	175.2
Exceptional Items (Exp)	NA	NA	NA	0.0	NA	0.0	NA	NA
PBT	23.1	250.6	275.4	434.2	672.1	817.8	955.0	1,093.1
Тах	14.5	105.7	71.3	117.5	169.7	207.1	241.6	276.5
Tax Rate (%)	62.6	42.2	25.9	27.1	25.3	25.3	25.3	25.3
PAT	8.6	144.9	204.1	316.8	502.3	610.8	713.4	816.5
Change (%)	-113.2	1,580.3	40.9	55.2	58.6	21.6	16.8	14.5
Cons. PAT post MI	23.0	197.7	224.1	353.7	556.5	670.9	797.7	934.5
Change (%)	-150.5	759.6	13.3	57.9	57.3	20.6	18.9	17.2
Balance Sheet								
Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Share Capital	9	9	9	9	9	9	9	9
Reserves & Surplus	2,200	2,311	2,530	2,792	3,267	3,764	4,346	5,002
Net Worth	2,209	2,320	2,539	2,801	3,276	3,772	4,355	5,011
Deposits	29,114	32,416	36,813	40,515	44,238	49,161	54,421	60,135
Change (%)	7.6	11.3	13.6	10.1	9.2	11.1	10.7	10.5
of which CASA Dep	12,976	14,337	16,713	18,036	18,874	19,614	22,313	25,076
Change (%)	7.8	10.5	16.6	7.9	4.7	3.9	13.8	12.4
Borrowings	4,030	3,147	4,173	4,260	4,931	5,976	6,249	6,907
Other Liab. & Prov.	1,456	1,631	1,820	2,299	2,725	2,888	3,148	3,431
Total Liabilities	36,809	39,514	45,344	49,876	55,170	61,797	68,173	75,484
Current Assets	2,225	2,511	3,430	3,946	3,079	3,108	3,083	3,312
Investments	9,670	10,470	13,517	14,814	15,704	16,713	17,800	18,992
Change (%)	-8.9	8.3	29.1	9.6	6.0	6.4	6.5	6.7
Loans	21,859	23,253	24,495	27,340	31,993	37,040	42,262	48,010
Change (%)	13.0	6.4	5.3	11.6	17.0	15.8	14.1	13.6
Fixed Assets	392	384	384	377	424	426	447	479
Other Assets	2,663	2,896	3,518	3,399	3,971	4,510	4,581	4,691
Total Assets	36,809	39,514	45,344	49,876	55,170	61,797	68,173	75,484
Asset Quality								
GNPA	1,728	1,491	1,264	1,120	909	843	865	943
NNPA	659	519	368	282	217	212	204	217
Slippages (INR m)		498	286	250	184	203	317	406
GNPA Ratio	7.53	6.15	4.98	3.98	2.78	2.2	2.0	1.9
NNPA Ratio	3.01	2.23	1.50	1.03	0.68	0.6	0.5	0.5
Slippage Ratio	1.6	2.2	1.2	1.0	0.6	0.6	0.8	0.9
Credit Cost	2.7	1.9	1.8	0.9	0.6	0.1	0.4	0.4
PCR (Excl Tech. W/O)	61.9	65.2	70.9	74.9	76.2	74.8	76.5	77.0
E: MOFSL Estimates								

E: MOFSL Estimates

Financials and valuations

Ratios Y/E March	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Yield and Cost Ratios (%)	F115	FT20	FIZI	FIZZ	FT23	F124	FIZSE	FIZUL
	7.0		7.2	67	7.2	0.1	0.2	0.7
Avg. Yield-Earning Assets	7.8	7.7	7.2	6.7	7.2	8.1	8.2	8.2
Avg. Yield on loans	7.8	8.0	7.2	6.6	7.5	8.3	8.6	8.4
Avg. Yield on Investments	7.5	6.9	6.8	6.1	6.4	6.8	6.9	6.9
Avg. Cost-Int. Bear. Liab.	4.8	4.6	4.0	3.6	4.0	4.9	5.2	5.1
Avg. Cost of Deposits	5.0	4.8	4.1	3.7	3.8	4.7	4.9	4.9
Interest Spread	2.9	3.1	3.1	3.0	3.2	3.2	3.1	3.0
Net Interest Margin	2.8	3.0	3.0	2.9	3.2	3.1	3.1	3.1
Capitalization Ratios (%)								
CAR	12.8	13.3	14.0	13.8	14.7	14.3	13.9	13.9
Tier I	10.8	11.2	11.7	11.4	12.1	11.9	11.6	11.8
Tier II	2.1	2.1	2.3	2.4	2.6	2.4	2.3	2.1
Business and Efficiency Ratios (%)						-		
Loans/Deposit Ratio	75.1	71.7	66.5	67.5	72.3	75.3	77.7	79.8
CASA Ratio	44.6	44.2	45.4	44.5	42.7	39.9	41.0	41.7
Cost/Assets	1.9	1.9	1.8	1.9	1.8	2.0	1.7	1.7
Cost/Total Income	55.7	52.5	53.6	57.9	53.9	59.0	51.8	50.7
Cost/Core Income	57.1	55.8	55.8	59.1	53.5	62.5	55.3	54.3
Int. Expense./Int. Income	63.6	61.9	58.2	56.2	56.4	61.5	63.1	62.5
Fee Income/Total Income	26.9	25.6	24.3	23.2	20.9	18.8	17.4	16.8
Non Int. Inc./Total Income	20.9	31.6	24.3	25.2	20.3	24.4	23.6	23.4
Empl. Cost/Total Expense	58.9	60.8	61.6	61.6	58.6	62.7	23.0 56.9	23.4 56.4
	56.9	647.5						
CASA per branch (INR m)			752.2	810.0	842.4	870.1	951.8	1,018.7
Deposits per branch (INR m)		1,464.1	1,656.8	1,819.6	1,974.5	2,180.9	2,321.3	2,442.9
Busi. per Empl. (INR m)		223.2	249.6	277.8	323.2	371.1	404.0	442.7
NP per Empl. (INR lac)		5.8	8.3	13.0	21.3	26.3	29.8	33.4
Profitability Ratios and Valuation								
RoE	0.4	7.2	9.3	13.0	18.1	18.8	18.8	18.5
RoA	0.0	0.4	0.5	0.7	1.0	1.0	1.1	1.1
RoRWA	0.0	0.7	0.9	1.2	1.7	1.8	1.8	1.8
Consolidated RoE	1.0	7.9	8.2	11.8	16.2	16.7	17.5	17.7
Consolidated RoA	0.1	0.5	0.5	0.7	1.0	1.1	1.1	1.2
Book Value (INR)	232	245	270	299	350	406	471	544
Change (%)	0.9	5.6	10.0	10.9	16.9	15.9	16.1	15.6
Price-BV (x)	2.4	2.2	2.0	1.8	1.6	1.4	1.2	1.0
Consol BV (INR)	248	267	294	328	385	448	523	624
Change (%)	2.0	7.7	10.3	11.5	17.4	16.3	16.8	19.2
Price-Consol BV (x)	3.2	2.9	2.7	2.4	2.0	1.7	1.5	1.3
Adjusted BV (INR)	170	187	221	256	311	365.3	432.4	506.0
Price-ABV (x)	3.2	2.9	2.5	2 30 2.1	1.8	1.5	432.4 1.3	1.1
Adjusted Consol BV	192	212	250	289	350	411	487	586
Price-Consol ABV (x)	4.1	3.7	3.1	289 2.7	2.2	1.9	487 1.6	1.3
EPS (INR)	1.0	16.2	22.9	35.5	56.3	68.4	79.9	91.5
Change (%)	-112.6	1,580.3	40.9	55.2	58.6	21.6	16.8	14.5
Price-Earnings (x)	568.1	33.8	40.9 24.0	15.2 15.5	9.8	8.0	6.9	6.0
Consol EPS (INR)	2.6	22.1	25.1	39.6	62.4	75.2	89.4	104.7
Change (%)	-148.2	759.6	13.3	57.9	57.3	20.6	18.9	17.2
Price-Consol EPS (x)	303.1	35.3	31.1	19.7	12.5	10.4	8.7	7.5
Dividend Per Share (INR)	0.0	0.0	4.0	7.1	11.3	13.7	17.4	18.0
Dividend Yield (%)	0.0	0.0	0.5	0.9	1.4	1.8	2.2	2.3

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

ΝΟΤΕS

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://onlinere

MOFSL and is 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 of pending Motilal Oswal Details Enquiry Proceedings of Financial Limited transactions. Services available website service are on the laxy.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.

Motifal 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

- 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
- MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months 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 3
- 4
- Research Analyst has not served as director/officer/employee in the subject company 5
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months 6
- MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months 8
- 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 alternations 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, not 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/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412 . 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 dpgrievances@motilaloswal.com.