

Month	SCBs		
	WALR – O/s Loans	WALR - Fresh Loans	WATDR
Feb-24	9.81	9.36	6.86
Mar-24	9.83	9.37	6.88
Apr-24	9.81	9.55	6.91
May-24	9.86	9.45	6.92
Jun-24	9.89	9.32	6.91
Jul-24	9.89	9.40	6.92
Aug-24	9.89	9.41	6.93
Sep-24	9.88	9.37	6.95
Oct-24	9.88	9.54	6.96
Nov-24	9.87	9.40	6.98
Dec-24	9.86	9.25	7.00
Jan-25	9.85	9.32	7.02
Feb-25	9.78	9.40	7.02

Month	PSBs		
	WALR – O/s Loans	WALR - Fresh Loans	WATDR
Feb-24	9.25	8.66	6.94
Mar-24	9.24	8.68	6.96
Apr-24	9.22	8.85	6.97
May-24	9.21	8.60	6.99
Jun-24	9.21	8.46	7.00
Jul-24	9.20	8.55	7.03
Aug-24	9.20	8.60	7.05
Sep-24	9.21	8.57	7.07
Oct-24	9.19	8.71	7.08
Nov-24	9.19	8.59	7.10
Dec-24	9.18	8.54	7.12
Jan-25	9.17	8.59	7.15
Feb-25	9.10	8.68	7.16

Month	Private Banks		
	WALR - O/s Loans	WALR - Fresh Loans	WATDR
Feb-24	10.61	10.08	6.82
Mar-24	10.64	10.29	6.83
Apr-24	10.63	10.13	6.88
May-24	10.76	10.13	6.90
Jun-24	10.83	10.31	6.83
Jul-24	10.84	10.34	6.85
Aug-24	10.84	10.19	6.85
Sep-24	10.83	10.33	6.87
Oct-24	10.83	10.35	6.89
Nov-24	10.83	10.31	6.90
Dec-24	10.82	10.16	6.92
Jan-25	10.81	10.20	6.92
Feb-25	10.75	10.24	6.93

Rate transmission suppresses lending yields; margin bias negative

Marginal increase in WATDR points to controlled rise in funding costs

- The weighted average lending rate (WALR) on fresh loans increased 8bp MoM in Feb'25, following a 7bp increase in Jan'25. Public sector banks (PSBs) reported a 9bp increase MoM (up 5bp MoM in Jan'25), while private banks (PVBs) reported a mild increase of 4bp MoM (up 4bp MoM in Jan'25).
- WALR on outstanding loans, however, declined 7bp MoM to 9.78%, with both PSBs and PVBs reporting a 7bp and 6bp MoM decline, respectively.
- The weighted average term deposit rate (WATDR) for the system was flat MoM at 7.02%. During Nov'24-Feb'25, WATDR rose 4bp (6bp for PSBs and 3bp for PVB), indicating intense competition for deposits as demand for credit moderates.
- Systemic credit growth continues to grow at a moderate pace at 11.1% YoY as of 7th Mar'25, amid stress in unsecured segments and a high CD ratio. We estimate credit growth for FY26 to sustain at ~12% YoY.
- The turn in repo-rate cycle has affected portfolio yields as banks have passed on the benefit of the rate cut to borrowers. The full impact of the same will be visible in subsequent months, which will keep the margin bias negative for the sector over 1HFY26.
- Our top picks are ICICI, HDFCB, SBIN, and AUBANK.

WALR on fresh loans rises in Feb'25; decline in O/S WALR loans indicates NIM compression for banks

- WALR on fresh loans inched up 8bp MoM (up 7bp in Jan'25), with a 9bp increase for PSBs and 4bp for PVBs. During Nov'24-Feb'25, WALR on fresh loans was flat – up 9bp for PSBs and down 7bp for PVBs.
- With a 25bp decline in repo, fresh rupee loans over repo premium stood at 3.99% for PVBs and 2.43% for PSBs. Despite the repo cuts, banks have not seen a decline in fresh rupee loans, while further rate cuts will impact lending rates.
- **WALR on O/S loans declined by 7bp MoM** to 9.78% vs. flat trends in the previous nine months. With more repo cuts around the corner, banks can further see some decline in NIMs in FY26.
- One-year MCLR for most PVBs increased by 10-80bp, with Bandhan Bank reporting a maximum increase of 80bp. For large PVBs, MCLR expansion was range bound at 0-10bp YoY.

WATDR flat MoM for both PSBs and PVBs

- WATDR was flat MoM in Feb'25, with PSBs and PVBs both reporting flat trends. During Nov'24-Feb'25, WATDR rose 4bp: +6bp for PSBs and +3bp for PVBs – indicating intense competition in the industry and high CoF.
- With the RBI injecting liquidity to address the liquidity deficit, the revival of deposits should play an important role in easing the higher funding cost in the system. We estimate that CoF may start to see a downward trend from 2HFY26 onward as the repricing of deposits plays out amid repo cuts.

Credit growth moderates to 11.1% YoY; deposits growth crucial to drive credit growth

- Systemic credit growth has moderated to ~11.1% YoY, impacted by a slowdown in unsecured retail lending, subdued demand in select secured segments, and elevated CD ratios across banks.
- Deposit growth has stayed within a narrow 10-12% range over the past two years, with FY25 YTD deposit growth at 9.9% and credit growth at ~10.3%. Deposits remain crucial for supporting credit expansion as the systemic CD ratio remains high, compelling banks to focus on TD growth despite elevated rates. **We estimate credit growth to sustain at ~12% YoY in FY26.**

CD ratio remains high at 80.5%; select PSBs witness sharp expansion in CD ratios

- Outstanding LDR has reached an all-time high of 80.5%. While PVBs are already at elevated LDR levels, PSBs have also seen an increase over the past 1-2 years, though still lower than private peers.
- The outstanding CD ratio has increased for most banks, with PSBs leading the surge. Indian Bank and Union Bank saw the highest rise at 12% in CD ratio vs FY22 levels, followed by Canara at 10%. PSBs saw a greater increase compared to PVBs. Among PVBs, HDFCB recorded a 10.4% rise due to the merger, while RBL saw an 8.7% increase vs. FY22. Additionally, PSBs maintain a higher LCR than PVBs.

Rate transmission to affect lending yields; NIM bias negative

- The turn in repo-rate cycle has affected portfolio yield as banks passed on the benefit of the rate cut to borrowers. The full impact of the same will be visible in subsequent months, which will keep the margin bias negative for the sector over 1HFY26.
- Furthermore, data indicates that WALR on O/S loans is declining, suggesting that NIM contraction will continue while WATDR is increasing, albeit at a slower pace. This will keep NIMs in check for most banks.
- That said, a 50bp CRR cut in Dec'24 is expected to provide some relief, and MCLR adjustments by select PSBs could help to sustain NIMs in the near term.

Earnings growth to bottom out in FY26E; Top ideas: ICICIB, HDFCB, SBI, and AUBANK

- WALR for outstanding loans declined in Feb'25, and with repo cuts now underway, banks' portfolio yields will be impacted in the coming months as the full effect is passed on to borrowers. Lower inflation and stable currency would provide necessary room to ease repo rates which will weigh on margins in coming quarters. Meanwhile, with deposit mobilization remaining a challenge retail deposit rates are likely to remain elevated keeping CoF high in 1HFY26.
- In line with the trend seen in 9MFY25, our checks suggest that asset quality will remain under stress for most MFI lenders (mainly mid-sized banks). We expect asset quality stress to remain higher for select banks like IIB, RBK, Bandhan, IDFCB, AU Bank and Equitas in the near term.
- We expect banks' NIMs to have a downward bias in the near term while growth will be slower particularly in unsecured loans. For MOFSL Banking Universe, we estimate earnings growth of 0.5% YoY in 4QFY25E, and an 11.8% CAGR over FY25-27E. We expect earnings growth to bottom-out in FY26E followed by a gradual recovery next fiscal.
- **Top picks: ICICI, HDFCB, SBI, and AUBANK.**

Exhibit 1: WALR on outstanding loans declines in Feb'25, for both PSBs and PVBs

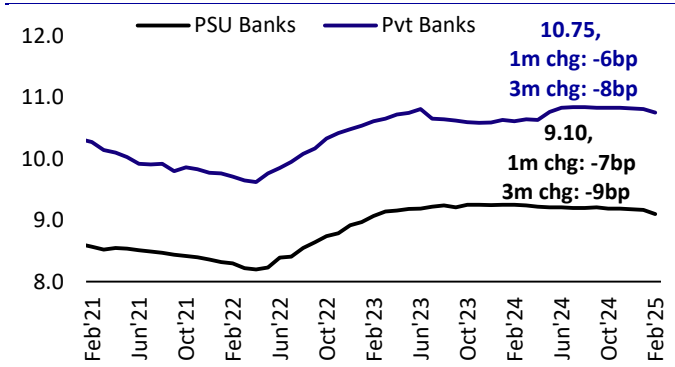


Exhibit 2: WALR on fresh loans increases MoM for both PVBs and PSBs

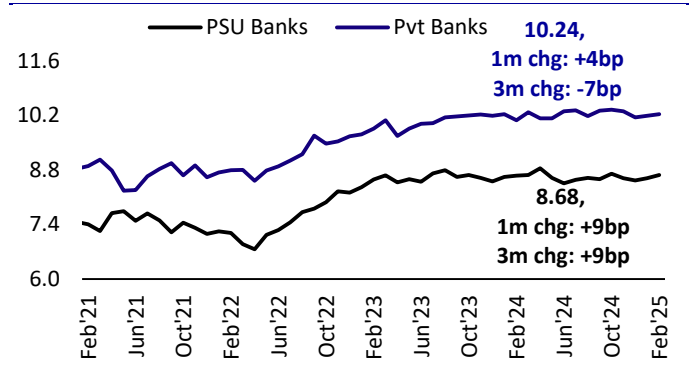
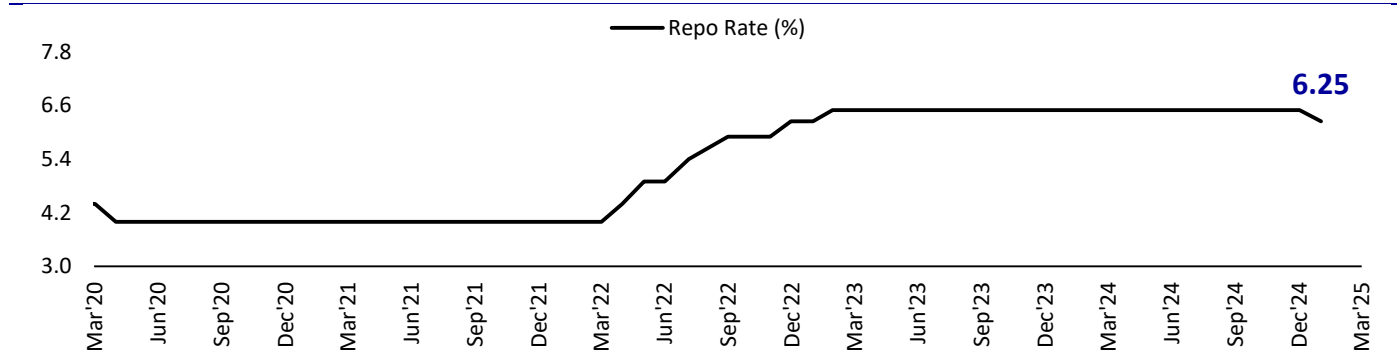


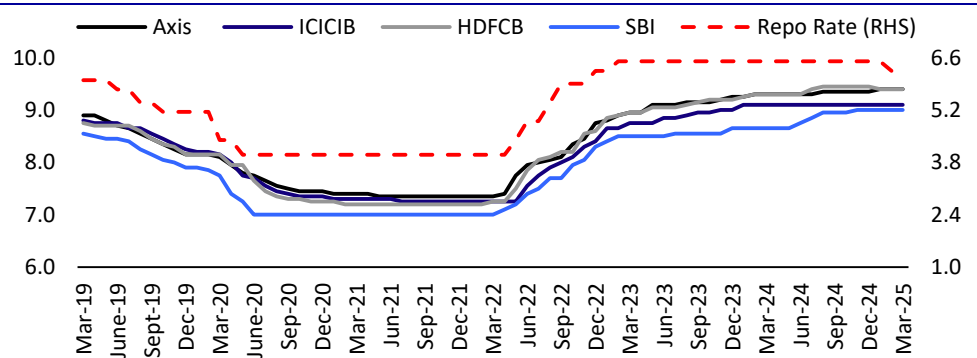
Exhibit 3: Repo rate declines by 25bp after a gap of almost two years



Source: RBI, MOFSL

Exhibit 4: MCLR for large banks rose 185-215bp from Apr'22 to Mar'25, while repo has started to see a declining trend from Feb'25

HDFCB has seen the sharpest rise (215bp) in MCLR from Apr'22 to Mar'25.

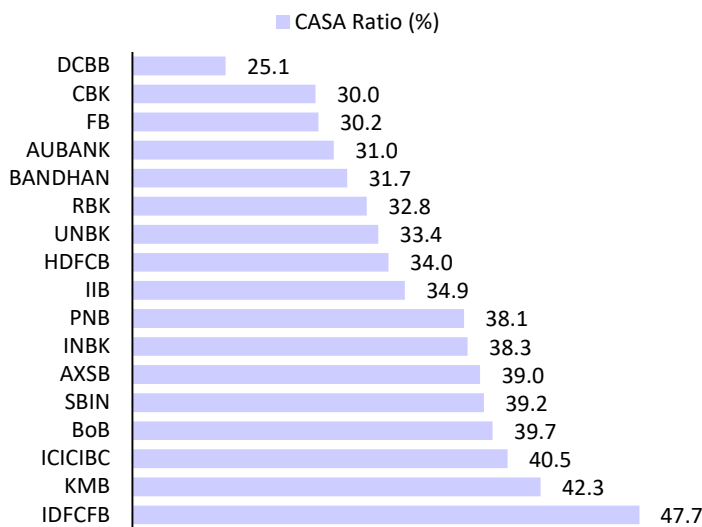


Source: RBI, MOFSL

Exhibit 5: One-year MCLR rate rose 5-20bp YoY for PVBs and 20-35bp for PSBs

	2022		2023		2024		2025		YoY Change (in %)
	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Mar	
Kotak	8.05	8.45	8.95	9.10	9.25	9.35	9.45	9.45	0.10
IIB	9.10	9.55	9.95	10.20	10.25	10.30	10.35	10.40	0.05
RBL	9.15	9.70	9.95	10.20	10.10	10.20	10.30	10.37	0.10
Federal	8.30	8.70	9.20	9.30	9.45	9.50	9.70	10.55	0.20
BOB	7.65	7.95	8.50	8.60	8.65	8.70	8.80	9.70	0.20
CBK	7.50	7.90	8.35	8.65	8.65	8.70	8.80	8.85	0.20
INBK	7.55	7.85	8.30	8.60	8.65	8.70	8.80	8.90	0.25
PNB	7.55	7.75	8.30	8.50	8.60	8.65	8.70	8.85	0.25
UNBK	7.55	7.90	8.40	8.65	8.65	8.70	8.80	8.80	0.10
SBI	7.50	7.95	8.40	8.50	8.55	8.55	8.65	8.90	0.35

Source: RBI, MOFSL

Exhibit 6: CASA ratio continues to moderate for most banks


Source: MOFSL, Company

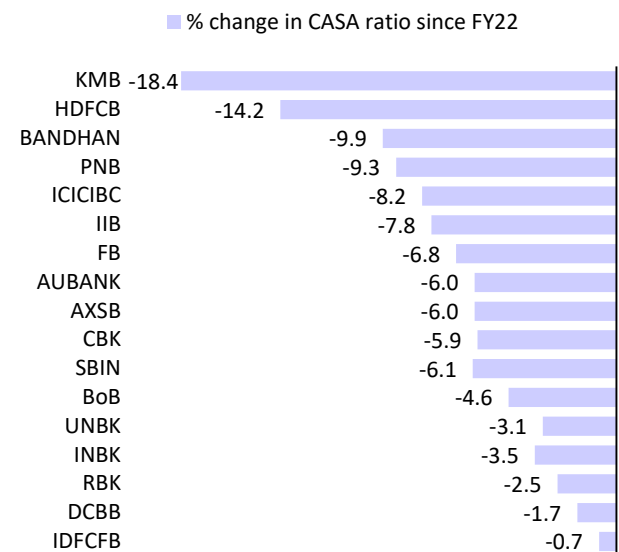
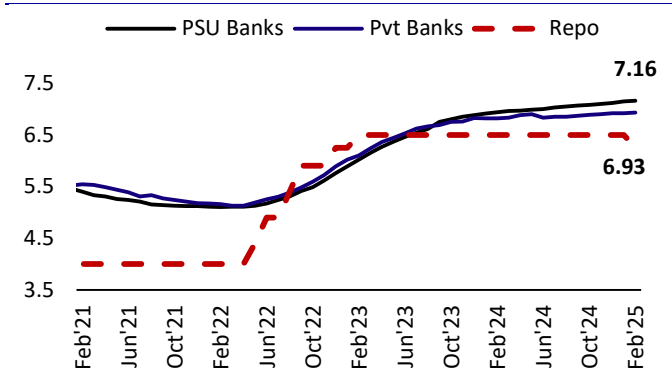
Exhibit 7: Decline in CASA ratio for banks since FY22

 Note: Decline in HDFCB is attributed partly to the merger;
 Source: MOFSL, Company

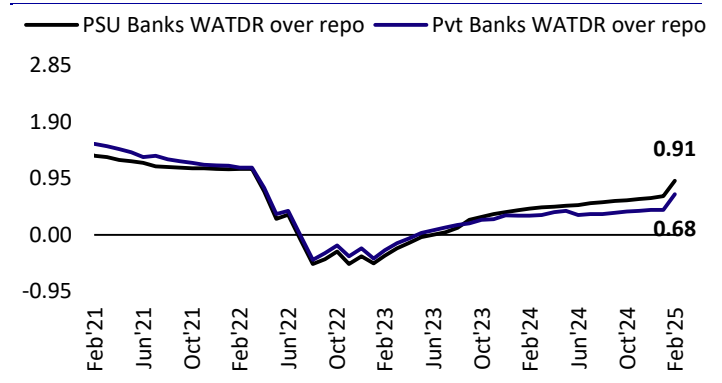
Exhibit 8: PSBs had a sizeable mix of MCLR-linked loans as of 3QFY25 (%)

Loans Mix (%) - 3QFY25	MCLR	EBLR	Repo linked	Others (fixed, base rate, and foreign currency-floating)
AUBANK	28	10		62
AXSB	11	4	54	31
CBK*	48	41		11
FB	10		51	39
HDFCB	25		45	30
ICICIBC	16	1	52	31
INBK	57		37	5
KMB*	13	60	-	27
PNB	32	16	41	11
RBL***	7	35	58	
SBIN**	36	27		34
BOB*	47	33		20
Equitas			20	80

*as of 2QFY25, **as of 1QFY25, *** as on FY24; Source: MOFSL, Company

Exhibit 9: WATDR stood at 7.16% for PSBs and 6.93% for PVBs


Source: MOFSL, RBI

Exhibit 10: WATDR was higher for both PVBs/PSBs by 91bp/68bp vs. the repo rate


Source: MOFSL, RBI

Exhibit 11: SA rates offered by various banks

(%)	SA Rate
AXSB	3.0%/3.5% (>INR5m)
HDFCB	3.0%/3.5% (>INR5m)
ICICIBC	3.0%/3.5% (>INR5m)
KMB	3.0%/3.5% (>INR5m)
IIB	3.0% to 7.0% (max rate for deposits between INR1m and above)
RBK	3.25% to 7.50% (max rate for deposits between INR2.5m to 30m)
IDFCFB	3% to 7.25% (max rate for deposits between INR1m-10b)
BANDHAN	3.0% to 8.0% (max rate for deposits above INR0.5b)
AUBANK	3.0% to 7.25% (max rate for deposits between INR10m to 0.25b)
BOB	2.75%/4.5% (max rate for deposits for INR10b and above)
PNB	2.7%/3.0% (max rate for deposits for INR1b and above)
SBIN	2.7%/3% (>INR100m)
DCBB	1.75% to 8.0% (max rate for deposits between INR20m to 30m)

Source: MOFSL, Company

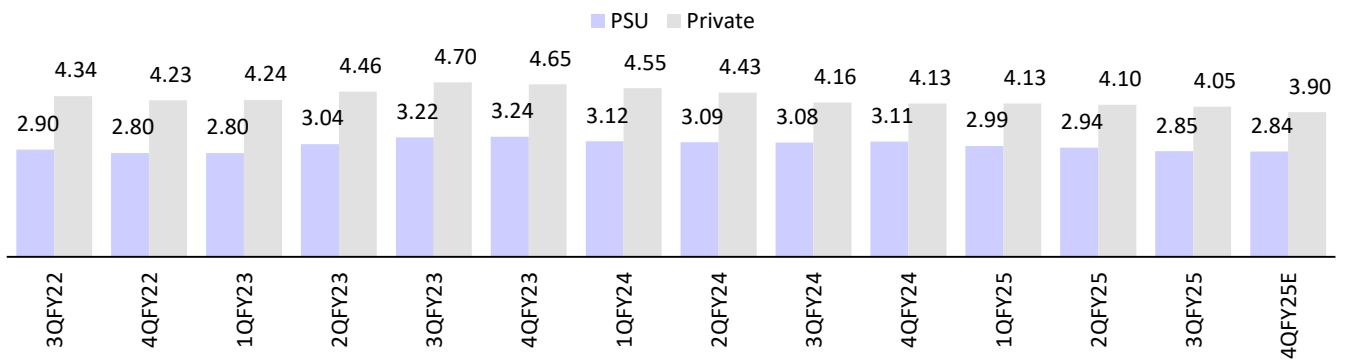
AU, IDFCB, RBK, Bandhan, DCB, and IIB offer much higher interest rates in certain buckets than other larger banks.

Exhibit 12: Peak term deposit rates across different buckets for major banks

(%)	7-14 days	0-3 months	3-9 months	9-15 months	15-36 months
Large pvt banks					
HDFCB	3.00	4.50	5.75	6.60	7.25
AXSB	3.00	4.50	5.75	6.70	7.25
ICICIBC	3.00	4.50	5.75	6.70	7.25
KMB	2.75	3.50	7.00	7.40	7.40
IIB	3.50	4.75	6.10	7.75	7.75
Mid-size pvt banks					
RBK	3.50	4.50	6.05	7.50	8.00
IDFCFB	3.00	4.50	5.75	7.25	7.90
BANDHAN	3.00	4.50	4.50	8.05	7.25
Federal	3.00	5.50	6.25	7.35	7.40
Small finance banks					
AUBANK	3.75	5.50	7.25	7.85	8.00
EQUITASB	3.50	4.50	6.75	8.15	8.25
JANASFB	3.00	5.00	7.50	8.25	8.25
UJJIVAN	3.75	4.75	7.00	8.10	8.25

Source: MOFSL, Company

HDFC Bank has lowered its peak term deposits rate in 13-36 month bucket

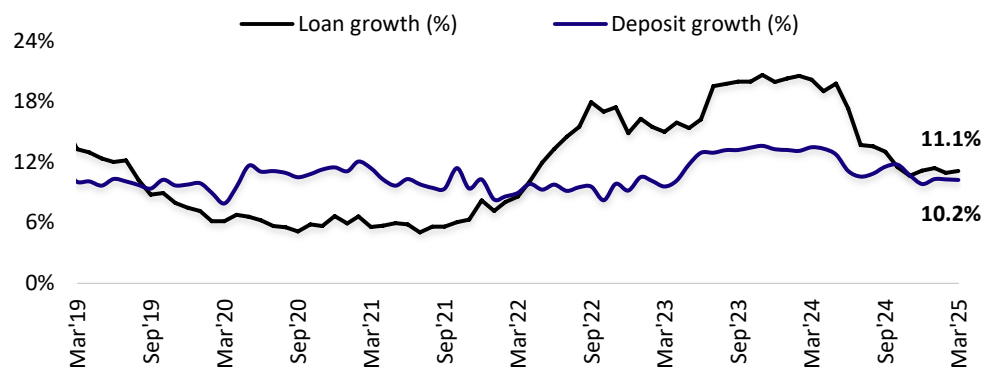
Exhibit 13: Estimate NIMs to see a slight downward bias


Source: MOFSL, Company

Exhibit 14: Estimate NIMs to decline for most banks, barring ICICI Bank

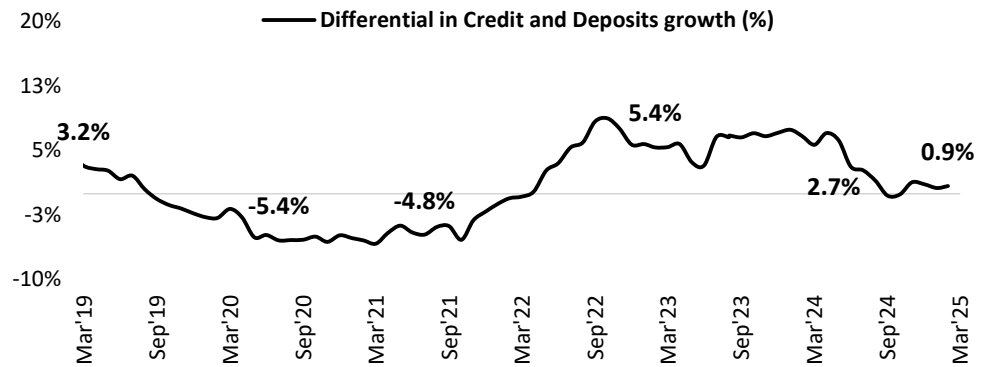
NIM (%)	1Q24	2Q24	3Q24	4Q24	1Q25	2Q25	3Q25	4Q25E
AXSB	4.10	4.11	4.01	4.06	4.05	3.99	3.93	3.92
HDFCB	4.10	3.40	3.40	3.44	3.47	3.46	3.43	3.40
ICICIBC	4.78	4.53	4.43	4.40	4.36	4.27	4.25	4.28
IDFCFB	6.33	6.32	6.42	6.35	6.22	6.18	6.04	5.95
IIB	4.29	4.29	4.29	4.26	4.25	4.08	3.93	3.78
KMB	5.57	5.22	5.22	5.28	5.02	4.91	4.93	4.92
FB	3.20	3.22	3.19	3.21	3.16	3.12	3.11	3.04
BoB	3.27	3.07	3.10	3.27	3.18	3.10	2.94	2.90
CBK	3.05	3.00	3.03	3.07	2.90	2.86	2.71	2.68
PNB	3.08	3.11	3.15	3.10	3.07	2.92	2.93	2.93
SBIN	3.33	3.29	3.22	3.30	3.22	3.14	3.01	2.98
UNBK	3.13	3.18	3.08	3.09	3.05	2.90	2.91	2.86
INBK	3.61	3.52	3.49	3.52	3.53	3.49	3.57	3.49
AUBANK	5.72	5.50	5.50	5.10	6.00	6.05	5.90	5.80
RBK	5.53	5.54	5.52	5.45	5.67	5.04	4.90	4.77
BANDHAN	7.30	7.20	7.20	7.60	7.60	7.40	6.90	6.73
DCBB	3.83	3.69	3.48	3.62	3.39	3.27	3.30	3.27

Source: MOFSL, Company

Exhibit 15: As of 7th Mar'25, deposit growth stood at 10.2% YoY; credit growth at ~11.1% YoY


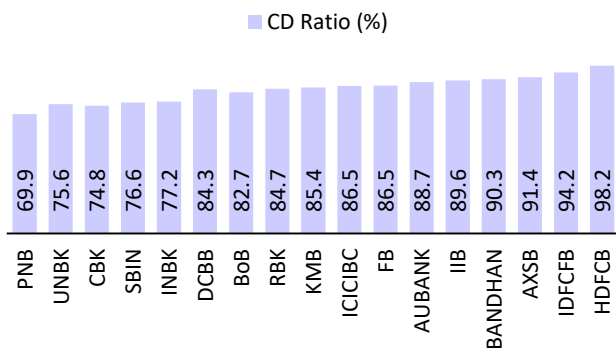
Credit growth adjusted for HDFC merger; Source: MOFSL, RBI

Exhibit 16: Differential between credit and deposit growth has narrowed to <1%



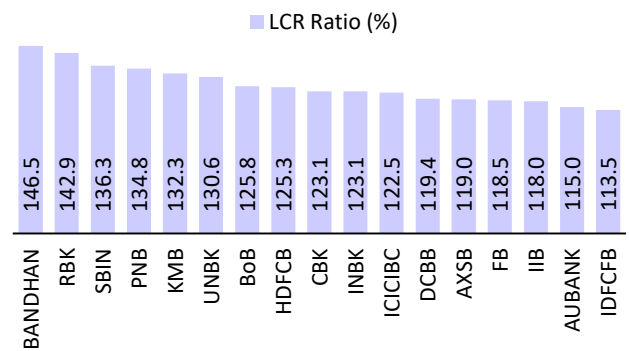
Source: MOFSL, RBI

Exhibit 17: CD ratio remains high for PVBs; PSBs have a lower CD ratio (as of 3QFY25)



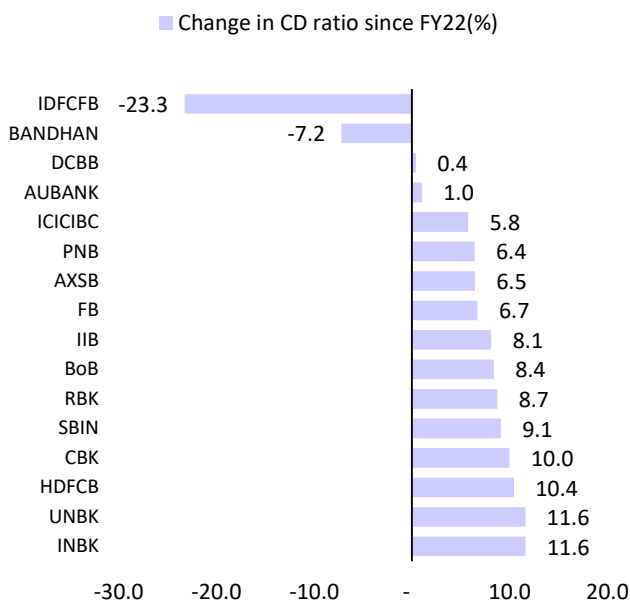
Source: MOFSL, Company

Exhibit 18: LCR is healthy for most PSBs; PVBs LCR ratio ranges from 113% to 146%



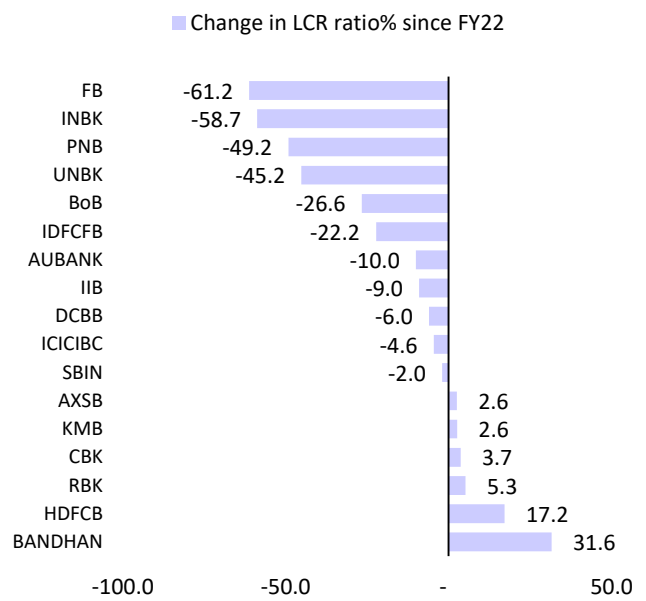
Source: MOFSL, Company

Exhibit 19: CD ratio increases for most banks since FY22 – the increase is more significant for PSBs than PVBs

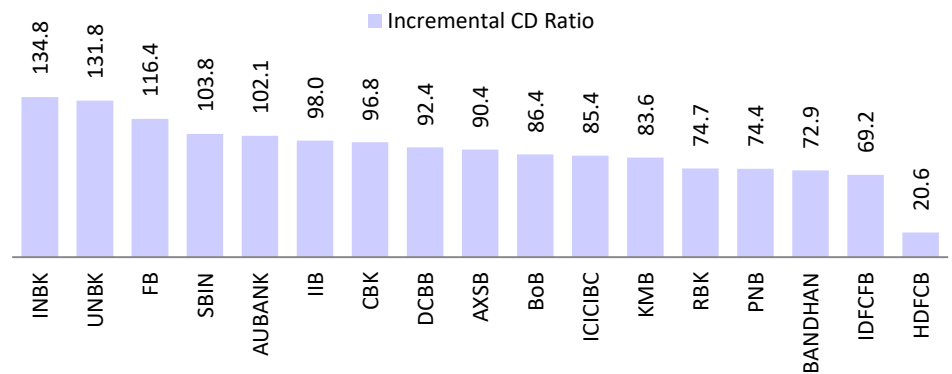


Higher CD ratio for HDFCB amid the merger; Source: MOFSL, Company

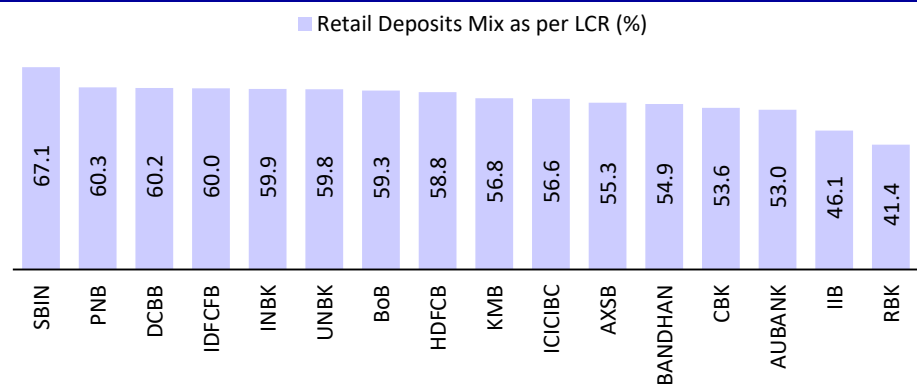
Exhibit 20: Change in LCR ratio since FY22 – most banks have deployed excess liquidity on their balance sheets



Source: MOFSL, Company

Exhibit 21: Incremental CD ratio has been high for most PSBs


Source: MOFSL, Company

Exhibit 22: Retail deposits across banks as per LCR


Source: MOFSL, Company

Exhibit 23: Yields and cost ratios for key banks – 3QFY25

%	YoF			YoA			CoF			CoD		
	3QFY25	YoY (bp)	QoQ (bp)	3QFY25	YoY (bp)	QoQ (bp)	3QFY25	YoY (bp)	QoQ (bp)	3QFY25	YoY (bp)	QoQ (bp)
AXSB*	9.3	-18.9	-15.2	10.1	-43.4	-10.4	5.5	11.0	1.0	6.6	-5.5	-2.8
HDFCB**	9.4	-152.8	-1.3	9.7	-183.3	-18.8	4.9	0.0	0.0	NA	NA	NA
ICICIBC	8.6	-9.0	-1.0	9.7	-14.0	-8.0	5.1	13.0	0.0	4.9	19.0	3.0
IDFCFB**	13.6	-65.1	5.2	15.5	-79.9	7.1	7.0	2.9	20.7	NA	NA	NA
IIB	9.6	-12.0	-6.0	12.2	-24.0	-10.0	5.7	24.0	9.0	6.6	14.0	3.0
KMB**	9.9	-25.0	-13.2	10.7	-28.7	-13.5	5.1	14.0	-9.0	NA	NA	NA
RBK***	12.2	-18.7	-16.8	13.3	-70.0	-24.0	6.6	15.0	3.0	6.6	29.0	7.0
AUBANK***	14.4	120.0	0.0	16.6	267.0	5.4	7.0	14.0	0.0	NA	NA	NA

* YoF and YoA are calculated

** All ratios are calculated

*** YoF is calculated

Source: MOFSL, Company

Earnings growth to bottom-out in FY26E; Top ideas: ICICIBC, HDFCB, SBI, and AUBANK

- WALR for outstanding loans declined in Feb'25, and with repo cuts now underway, banks' portfolio yields will be impacted in the coming months as the full effect is passed on to borrowers. Lower inflation and stable currency would provide necessary room to ease repo rates which will weigh on margins in coming quarters. Meanwhile, with deposit mobilization remaining a challenge retail deposit rates are likely to remain elevated keeping CoF high in 1HFY26.
- In line with the trend seen in 9MFY25, our checks suggest that asset quality will remain under stress for most MFI lenders (mainly mid-sized banks). We expect

asset quality stress to remain higher for select banks like IIB, RBK, Bandhan, IDFCB, AU Bank and Equitas in the near term.

- We expect banks' NIMs to have a downward bias in the near term while growth will be slower particularly in unsecured loans. For MOFSL Banking Universe, we estimate earnings growth of 0.5% YoY in 4QFY25E, and an 11.8% CAGR over FY25-27E. We expect earnings growth to bottom-out in FY26E followed by a gradual recovery next fiscal.
- **Top picks: ICICI, HDFCB, SBI, and AUBANK.**

Exhibit 24: Banking valuation summary

	Rating	CMP (INR)	EPS (INR)		RoA (%)				P/E (x)				P/BV (x)			
			FY26E	FY27E	FY24	FY25E	FY26E	FY27E	FY24	FY25E	FY26E	FY27E	FY24	FY25E	FY26E	FY27E
ICICIBC IN	Buy	1,331	72.2	83.2	2.4	2.3	2.2	2.2	18.2	16.0	14.7	12.8	3.2	2.7	2.3	2.0
HDFCB IN	Buy	1,797	93.5	107.4	1.8	1.8	1.7	1.8	18.8	17.2	16.1	14.0	2.6	2.3	2.1	1.9
AXSB IN	Neutral	1,085	92.2	107.1	1.8	1.7	1.7	1.8	12.0	11.3	10.5	9.0	2.0	1.7	1.5	1.3
BANDHAN IN	Neutral	152	22.2	25.8	1.3	1.5	1.7	1.8	10.9	8.5	6.8	5.9	1.1	1.0	0.9	0.8
KMB IN	Neutral	2,155	76.9	90.8	2.5	2.2	2.1	2.2	21.2	20.9	19.1	16.2	3.0	2.6	2.3	2.0
IIB IN	Buy	702	81.3	104.0	1.8	0.9	1.1	1.2	6.1	11.5	8.6	6.8	0.9	0.8	0.8	0.7
FB IN	Buy	192	18.1	22.8	1.3	1.2	1.2	1.3	11.7	11.9	10.6	8.4	1.6	1.4	1.3	1.1
DCBB IN	Buy	115	23.7	30.4	0.9	0.9	0.9	0.9	6.7	6.0	4.8	3.8	0.7	0.7	0.6	0.5
IDFCB IN	Neutral	57	4.0	6.7	1.1	0.5	0.8	1.0	13.3	27.3	14.3	8.6	1.3	1.1	1.0	0.9
EQUITASB IN	Buy	57	5.5	8.7	2.0	0.4	1.1	1.4	8.0	36.0	10.3	6.5	1.1	1.1	1.0	0.9
AUBANK IN	Buy	539	35.7	47.1	1.5	1.6	1.6	1.7	23.4	18.3	15.1	11.5	2.9	2.4	2.1	1.8
RBK IN	Neutral	172	20.1	31.9	0.9	0.5	0.8	1.1	8.9	15.8	8.5	5.4	0.7	0.7	0.6	0.6
SBIN IN	Buy	776	84.1	94.2	1.0	1.1	1.0	1.1	7.7	6.6	6.2	5.6	1.3	1.1	1.0	0.9
PNB IN	Neutral	97	16.8	19.1	0.5	1.0	1.0	1.0	13.0	6.6	5.8	5.1	1.1	0.9	0.8	0.7
BOB IN	Buy	232	39.1	44.2	1.2	1.2	1.1	1.1	6.7	6.2	5.9	5.2	1.1	1.0	0.9	0.8
CBK IN	Buy	91	19.7	21.7	1.0	1.0	1.0	1.0	5.7	5.1	4.6	4.2	1.0	0.9	0.8	0.7
UNBK IN	Buy	127	24.1	26.3	1.0	1.2	1.2	1.2	6.7	5.5	5.3	4.8	1.0	0.9	0.8	0.7
INBK IN	Buy	530	83.6	92.5	1.1	1.3	1.2	1.3	8.5	6.6	6.3	5.7	1.3	1.1	1.0	0.9
PAYTM IN	Neutral	818	3	16	-8.0	-1.2	0.9	4.4	-36.9	-229.0	278.8	52.0	3.9	4.0	4.1	4.0
SBICARD IN	Neutral	856	31	41	4.6	3.2	4.1	4.8	33.7	41.8	27.9	20.9	6.7	5.9	4.9	4.1

Source: MOFSL, Company

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/List%20of%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

- Research Analyst and/or his/her relatives do not have a financial interest in the subject company(ies), as they do not have equity holdings in the subject company(ies). MOFSL has financial interest in the subject company(ies) at the end of the week immediately preceding the date of publication of the Research Report: Yes.
Nature of Financial interest is holding equity shares or derivatives of the subject company
- Research Analyst and/or his/her relatives do not have actual/beneficial ownership of 1% or more securities in the subject company(ies) at the end of the month immediately preceding the date of publication of Research Report.
MOFSL has actual/beneficial ownership of 1% or more securities of the subject company(ies) at the end of the month immediately preceding the date of publication of Research Report: No
- Research Analyst and/or his/her relatives have not received compensation/other benefits from the subject company(ies) in the past 12 months.
MOFSL may have received compensation from the subject company(ies) in the past 12 months.
- Research Analyst and/or his/her relatives do not have material conflict of interest in the subject company at the time of publication of research report.
MOFSL does not have material conflict of interest in the subject company at the time of publication of research report.
- Research Analyst has not served as an officer, director or employee of subject company(ies).
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months.
- MOFSL has not received compensation for investment banking /merchant banking/brokerage services from the subject company(ies) in the past 12 months.

8. MOFSL may have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company(ies) in the past 12 months.
9. MOFSL may have received compensation or other benefits from the subject company(ies) or 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.