Motilal Oswal

FINANCIAL SERVICES

Estimate change	
TP change	\longleftrightarrow
Rating change	

Bloomberg	MGFL IN
Equity Shares (m)	846
M.Cap.(INRb)/(USDb)	175 / 2.1
52-Week Range (INR)	230 / 125
1, 6, 12 Rel. Per (%)	-6/5/16
12M Avg Val (INR M)	1899

Financials & Valuations (INR b)

Y/E March	FY24	FY25E	FY26E
NII	55.9	64.5	76.0
РРР	35.4	40.9	48.3
PAT	22.0	24.2	30.2
EPS (INR)	26.0	28.6	35.7
EPS Gr. (%)	46.5	10.2	24.8
BV/Sh.(INR)	136	161	193
Ratios			
NIM (%)	14.9	14.4	14.4
C/I ratio (%)	41.6	41.1	40.5
RoA (%)	5.1	4.7	5.0
RoE (%)	20.7	19.2	20.2
Payout (%)	13.7	13.5	12.1
Valuations			
P/E (x)	8.0	7.2	5.8
P/BV (x)	1.5	1.3	1.1
Div. Yld. (%)	1.7	1.9	2.1

Shareholding pattern (%)

As On	Jun-24	Mar-24	Jun-23			
Promoter	35.2	35.2	35.2			
DII	9.3	9.5	10.7			
FII	33.0	32.0	30.7			
Others 22.4 23.3 23.4						
FII Includes depository receipts						

Manappuram Finance

CMP: INR207

TP: INR250 (+21%)

Buy

Earnings in line; strong gold AUM growth at ~10% QoQ

Credit costs remain elevated in the MFI business

- Manappuram Finance (MGFL)'s consol. PAT grew ~12% YoY, but declined ~1% QoQ to ~INR5.6b (in line) in 1QFY25. NII grew ~19% YoY to ~INR15.4b (in line), and PPoP rose ~22% YoY to ~INR9.8b (in line) during the quarter.
- Consol. credit costs stood at ~INR2.3b. Annualized credit costs for the quarter rose ~30bp QoQ to 2.1% (v/s PQ: ~1.8%). Higher credit costs were primarily attributable to the MFI business.
- **Gold AUM grew ~10% QoQ and ~15% YoY to ~INR236b.** Net yields on Gold loans declined ~30bp to ~22.2% (PQ: ~22.5%). However, net yields on the standalone business rose ~10bp QoQ to 21.8%. Standalone CoB increased ~20bp QoQ to 9.0%, resulting in a sequential compression in NIM.
- Standalone GNPA rose ~10bp QoQ to ~2.0% and NNPA was stable at ~1.7%.
- Asset quality deteriorated across non-gold segments (except MFI), with GS3 increasing in Vehicle Finance (~3.6% vs. ~2.8% in 4Q), Housing Finance (~2.9% vs. ~2.4% in 4Q), and MSME & Personal Loans (3.4% vs. ~2.8% in 4Q), despite a healthy sequential loan growth in each of these product segments. For Asirvad MFI, collections were weaker due to farmer agitation (in Punjab), general elections, and rumors regarding loan waivers as well as heat waves in certain parts of Northern India.
- Management shared that the competitive intensity from banks has reduced, allowing for no irrationality around pricing/yields in gold lending. We believe that capping on cash disbursements at INR20K in gold loans will also help MGFL gain market share from smaller/fringe gold loan players in the near-term.
- We cut our FY25 PAT estimates by ~5% each to factor in lower growth (in some non-gold segments like MFI and Personal Loans) and higher credit costs from the MFI business. We estimate a 15%/19% AUM CAGR in gold/consolidated AUM over FY24-26. We model a ~17% consolidated PAT CAGR over the same period to arrive at a consolidated RoA/RoE of ~5%/20% in FY26. Reiterate BUY (as the risk-reward is still favorable at a valuation of 1.1x FY26E P/BV) with a TP of INR250 (based on 1.3x FY26E consolidated BVPS).

Gold AUM rises ~10% QoQ with a minor increase in gold tonnage

- Gold AUM grew ~10% QoQ and ~15% YoY to ~INR236b. Gold tonnage grew ~1% QoQ to ~60t. LTV increased ~2pp QoQ to ~60% while the average ticket size (ATS) in gold loans rose to INR62.1K (PQ: INR58.5K). Gold loan customer base increased to ~2.6m (PQ: 2.4m).
- The company guided for Gold Loan growth of >15% in FY25.
- The Union Budget slashed the customs duty on gold from ~15% to 6%, which has hit the domestic price of gold. However, the increase in gold volumes will be positive for MGFL and other gold lenders.

Abhijit Tibrewal - Research Analyst (Abhijit.Tibrewal@MotilalOswal.com)

Research Analyst: Nitin Aggarwal (Nitin.Aggarwal@MotilalOswal.com) | Raghav Khemani (Raghav.Khemani@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.

Highlights from the management commentary

- Management guided borrowing costs to remain stable at the current levels.
- Climatic challenges such as floods and heat waves affected the income of customers and caused delays in repayments. The company is taking all possible steps to identify the bottlenecks and improve the collections.

Valuation and view

- MGFL trades at 1.1x FY26E P/BV, and we believe that there is scope for a rerating in valuation multiples for a franchise that can deliver a sustainable RoE of ~19-20%. Reiterate BUY (as the risk-reward is still favorable at a valuation of 1.1x FY26E P/BV) with a TP of INR250 (based on 1.3x FY26E consolidated BVPS).
- For a stronger re-rating in the valuation multiples based on business fundamentals, MGFL will have to consistently demonstrate healthy gold loan growth without the associated trade-offs with margins/spreads.

Y/E March		F	(24		FY25E			_			Act v/s	
.,	1Q	2Q	3Q	4Q	1Q	2QE	3QE	4QE	FY24	FY25E	1QFY25E	Est. (%)
Interest Income	19,363		22,011	22,734	23,861	24,887	25,509	26,564	84,546	1,00,821	23,757	0
Interest Expenses	, 6,484	, 6,894	, 7,487	, 7,792	8,483	, 9,119	, 9,302	, 9,429	28,657	36,333	8,298	2
Net Interest Income		13,543	14,524	14,943	15,378	15,768	16,207	17,135	55,889	64,488	15,459	-1
YoY Growth (%)	34.6	25.5	33.0	32.8	19.4	16.4	11.6	14.7	31.4	15.4	20.0	
Other income	1,209	1,303	1,256	888	1,259	1,252	1,325	998	4,655	4,834	1,015	24
Net Income	14,088	14,846	15,780	15,831	16,636	17,020	17,532	18,133	60,544	69,322	16,474	1
Operating Expenses	6,068	6,182	6,419	6,497	6,823	6,985	7,190	7,461	25,165	28,459	6,856	0
Operating Profits	8,020	8,664	9,361	9,333	9,814	10,035	10,343	10,672	35,379	40,863	9,618	2
YoY Growth (%)	57.5	36.8	58.1	52.0	22.4	15.8	10.5	14.3	50.7	15.5	19.9	
Provisions	1,212	1,197	1,496	1,878	2,286	2,290	2,013	1,477	5,783	8,066	1,839	24
PBT	6,808	7,467	7,864	7,455	7,528	7,745	8,329	9,195	29,595	32,798	7,779	-3
Tax Provisions	1,828	1,861	2,111	1,820	1,963	2,019	2,166	2,445	7,621	8,593	2,023	-3
PAT	4,980	5,607	5,753	5,635	5,565	5,726	6,164	6,750	21,974	24,205	5,757	-3
YoY Growth (%)	77	37	46	36	12	2	7	20	46	10	16	
Key Ratios (%)		-								-	-	
Yield on loans	22.3	22.6	23.2	22.8	22.5	22.3	22.3	22.3	22.5	22.5		
Cost of funds (Cal)	9.1	9.1	9.3	9.5	9.4	9.5	9.6	9.6	9.2	9.9		
Spreads (Cal)	13.2	13.5	13.9	13.3	13.1	12.9	12.6	12.7	13.3	12.6		
NIMs (Cal)	14.8	15.0	15.3	15.0	14.5	14.2	14.1	14.4	14.9	14.4		
C/I ratio	43.1	41.6	40.7	41.0	41.0	41.0	41.0	41.1	41.6	41.1		
Credit Cost	1.3	1.3	1.5	1.8	2.1	2.0	1.7	1.2	1.5	1.8		
Tax Rate	26.9	24.9	26.8	24.4	26.1	26.1	26.0	26.6	25.8	26.2		
Balance Sheet Parameters												
Consol. AUM (INR b)	371	390	404	421	449	467	481	504				
Change YoY (%)	20.6	27.0	26.7	18.7	21.2	19.8	19.1	19.9				
Gold loans (INR b)	206	208	208	215	236	245	248	256				
Change YoY (%)	0.6	8.4	11.5	8.9	14.8	17.6	19.7	19.0				
Gold stock (tonnes)	59	59	58	59	60	0	0	0				
Gold loans/branch (INR m)	51	51	51	53	58	0	0	0				
Consol. Borrowings (INR b)	285	322	319	337	385	387	385	399				
Change YoY (%)	19.0	20.5	18.2	18.2	34.8	20.1	20.5	18.5				
Borrowings Mix (%)												
Debentures	20.3	18.2	18.5	14.4	12.4	18.2	18.5	14.4				
CPs	0.0	2.0	0.1	2.5	2.3	2.0	0.1	2.5				
WC/CC	27.0	27.5	25.7	22.7	20.6	27.5	25.7	22.7				
TL	49.5	50.2	52.9	56.5	54.6	50.2	52.9	56.5				
ECB	3.3	0.6	1.6	2.8	10.1	0.6	1.6	2.8				
Others	0.0	1.4	1.3	1.2	0.0	1.4	1.3	1.2				
Debt/Equity (x)	1.4	1.5	1.4	1.4	3.2							
Asset Quality Parameters (%)											
GNPL ratio (Standalone)	1.4	1.6	2.0	1.9	2.0							
NNPL ratio (Standalone)	1.2	1.4	1.8	1.7	1.7							
Return Ratios (%)												
RoA (Rep)	5.0	5.3	5.2	4.9	4.8							
RoE (Rep)	20.1	21.6	21.2	19.9	16.7							

E: MOFSL estimates



Highlights from the management commentary

Business update

- Standalone AUM at ~INR310.4b, grew by ~21% YoY and consolidated AUM stood at INR449.3b grew 21% YoY
- Gold AUM grew ~15% YoY and ~10% QoQ for the quarter
- Gold holdings grew ~1.3% QoQ during the quarter despite tightened competition
- The Union Budget slashed the customs duty on gold from ~15% to 6%, which has hit the domestic price of gold. However, the increase in gold volumes will be positive for MGFL and other gold lenders.
- The Board declared an interim dividend of INR1/share

Financial Performance

- Consolidated AUM stood at INR449.3b, up ~7% QoQ and ~21% YoY
- Consol. PAT declined ~1% QoQ and grew 11% YoY
- Standalone PAT grew ~3% QoQ and grew ~16% YoY
- Standalone GNPA at 1.96% (v/s 1.93% QoQ)

Guidance

- MGFL guided for FY25 Gold Loan growth and growth in customer acquisitions of ~15%+ YoY
- Borrowing costs will continue at similar levels now and MGFL is also looking forward to interest rate/repo rate cuts.

Gold loans

- Gold Loans contributed ~53% of the Consolidated AUM and grew ~15% YoY
- Gold loans are prone to seasonality during quarters; Compared to the same period last year, the gold loan demand has been better YoY in July/August
- Gold auctions stood at INR120m. Gold auctions were at similar levels as last quarter.
- With gold loans, customers with INR200K ticket size has increased from ~33% to 35%
- New customer additions stood at ~420K in 1QFY25 and existing customers have also started coming back for gold loans.
- Net Gold loan yields declined from 22.5% to 22.2%

Competitive landscape and the impact of a ban on a large gold loan peer

- Post-Covid, demand from the target audience reduced but it has now recovered. Ban on gold loans for a large gold loan peer has not had any material impact since it is getting distributed across so many gold lending players, and customers from that gold loan peer are predominantly going to banks.
- Earlier, the old traditional players did not have a level playing field in gold loans.
 Even after the ban on the gold loan peer is revoked, it might be difficult for them to come back since it will be a level playing field for everyone now.

MicroFinance

- There are some challenges in collections Punjab (Farmer Agitation), general elections and rumors spreads about interest parties of loan waivers, and heat waves led to a hit on business and collections. Productivity loss also led to a loss of income for the customers.
- Climatic challenges such as floods and heat waves affected the income of customers and caused delay in repayments. Taking all possible steps to identify the bottlenecks and improve the collections.
- Some states which are exhibiting higher stress are Punjab, Gujarat, Rajasthan, MP - even in these places, there are branches that are showing good collections.
- SROs have guided Asirvad to reduce the maximum loan per borrower to INR200K and maximum number of lenders to be capped at four. Asirvad has now become compliant with MFIN guidelines.
- Asirvad AUM stood at INR123.1b and grew 21% YoY
- Asirvad PAT stood at INR1b (v/s INR1.02b QoQ)
- NNPA stood at ~1.36% and CRAR stood at 21.8%; Write-offs in Asirvad stood at ~INR700m

Vehicle Finance

VF AUM grew 10.5% QoQ and 64% YoY; GNPA at 3.6%

Home Loans

- AUM stood at ~INR15.9b, up ~5% QoQ and ~32% YoY
- PAT of INR60m in 1QFY25; GNPA at 2.88%; Mix between Home Loans and LAP of ~72% and ~28%
- Closely monitoring the affordable housing segment for opportunities from PMAY and CLSS

MSME and Allied

- GNPA stood at 2.7% excluding digital personal loans and this portfolio is largely secured.
- ~95% of the loans are Micro-LAP with ticket sizes of INR500-600K. ~93% collections happen through the NACH presentation itself.
- Stress is in the unsecured MSME lending segment but it has now reduced it further and it will increase the secured book to ~97-98% over a period of time.
- Only a small proportion of the business is sourced through DSA. Acquiring majority of the customers directly from customers who walk into the branches. Earlier this product was done by gold loan branches and its employees. Now there is a specialized team who are co-located with gold loan branches.

Key Exhibits

Exhibit 1: Consolidated AUM grew ~21% YoY

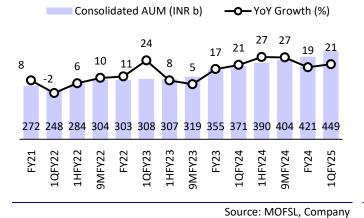
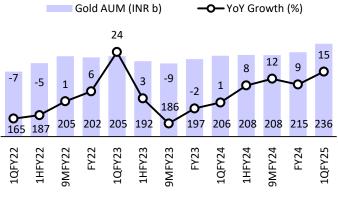
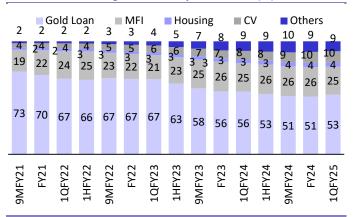


Exhibit 2: Gold AUM grew ~15% YoY



Source: MOFSL, Company

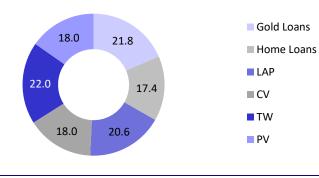
Exhibit 3: Share of gold loans improved QoQ (%)



Source: MOFSL, Company

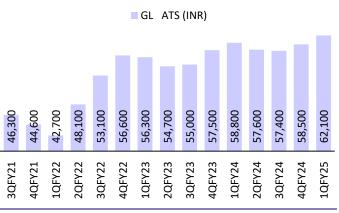
Exhibit 5: Consol. yield was at ~22.5% as of 1QFY25

Product-wise yields



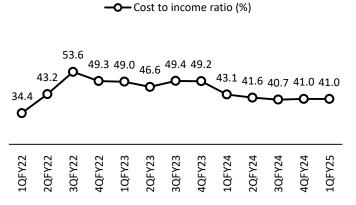
Source: MOFSL, Company

Exhibit 4: ATS in gold loans increased QoQ to INR62.1k



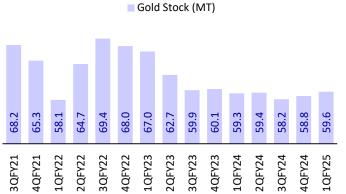
Source: MOFSL, Company

Exhibit 6: C/I ratio remained stable at ~41%



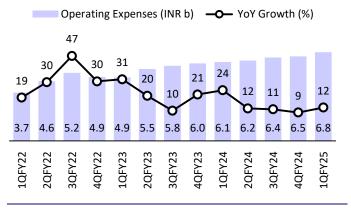
Source: MOFSL, Company

Exhibit 7: Gold tonnage increased to 59.6t QoQ

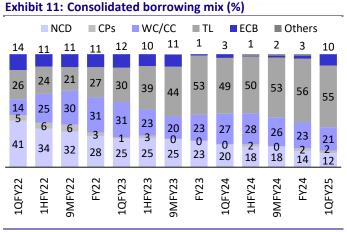


Source: MOFSL, Company

Exhibit 9: Opex grew ~12% YoY

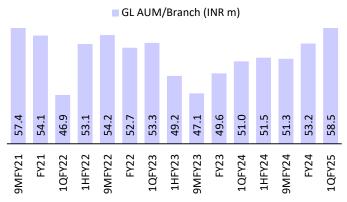


Source: MOFSL, Company



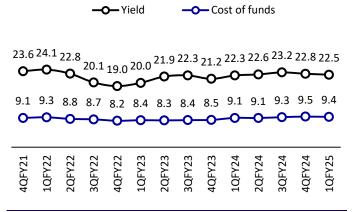
Source: MOFSL, Company

Exhibit 8: Branch productivity improved QoQ



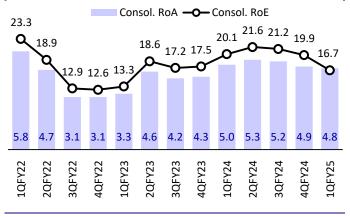
Source: MOFSL, Company

Exhibit 10: Consolidated spreads contracted ~20bp QoQ (%)



Source: MOFSL, Company

Exhibit 12: RoA declined ~10bp QoQ to ~4.8%



Source: MOFSL, Company

14 August 2024

7

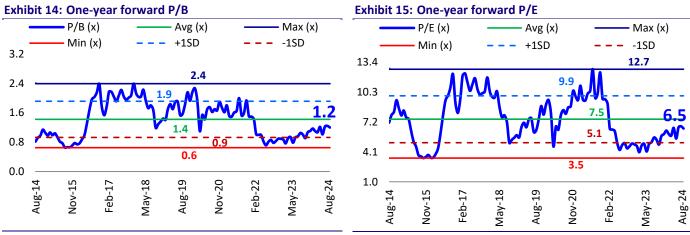
Valuation and view

- An increase in the cost of borrowings because of the increase in risk weights on bank term loans to NBFCs could lead to a NIM compression for MGFL since there is not much room to increase the yields either in gold loans or non-gold products. MGFL trades at 1.1x FY26E P/BV, and we believe that there is scope for a re-rating in valuation multiples for a franchise that can deliver a sustainable RoE of ~19-20%. Reiterate BUY (as the risk-reward is still favorable at a valuation of 1.1x FY26E P/BV) with a TP of INR225 (based on 1.3x FY26E consolidated BVPS).
- For a stronger re-rating in the valuation multiples based on business fundamentals, MGFL will have to consistently demonstrate healthy gold loan growth without the associated trade-offs with margins/spreads.

Exhibit 13: We cut our FY25 PAT estimate by ~5% to factor in higher credit costs from the MFI business.

INR B	Old	Old Est.		/ Est.	Chan	ge (%)
	FY25E	FY26E	FY25E	FY26E	FY25E	FY26E
NII	65.8	77.0	64.5	76.0	-2.0	-1.3
Other Income	4.6	5.1	4.8	5.3	4.3	4.3
Net Income	70.4	82.0	69.3	81.3	-1.6	-0.9
Operating Expenses	29.6	34.2	28.5	32.9	-3.8	-3.8
Operating Profits	40.9	47.8	40.9	48.3	0.0	1.1
Provisions	6.5	7.3	8.1	7.4	24.2	0.6
РВТ	34.4	40.5	32.8	40.9	-4.6	1.1
Тах	9.0	10.6	8.6	10.7	-4.6	1.1
РАТ	25.4	29.9	24.2	30.2	-4.6	1.1
Loans	493	580	487	570	-1.2	-1.8
Borrowings	404	476	399	463		
RoA (%)	4.9	4.9	4.7	5.0		
RoE (%)	20.1	19.8	19.2	20.2		

Source: MOFSL, Company



Source: MOFSL, Company

Source: MOFSL, Company

Financials and valuations

Manappuram Finance Model

The second se								
Income Statement								(INR M)
Y/E MARCH	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Interest Income	40,461	52,805	61,896	58,397	64,404	84,546	1,00,821	1,18,241
Interest Expense	13,449	18,322	22,190	20,114	21,878	28,657	36,333	42,254
Net Interest Income	27,012	34,483	39,706	38,284	42,526	55,889	64,488	75,987
Change (%)	16.3	27.7	15.1	-3.6	11.1	31.4	15.4	17.8
Other operating income	1,334	1,848	1,410	2,213	2,436	3,934	4,091	4,500
Total Income	28,346	36,331	41,116	40,496	44,963	59,823	68,579	80,488
Change (%)	18.6	28.2	13.2	-1.5	11.0	33.1	14.6	17.4
Other income	625	859	441	653	659	721	742	780
Net Income	28,971	37,190	41,557	41,149	45,622	60,544	69,322	81,267
Change (%)	18.3	28.4	11.7	-1.0	10.9	32.7	14.5	17.2
Operating Expenses	13,858	14,741	13,996	18,453	22,140	25,165	28,459	32,933
Operating Profits	15,113	22,449	27,561	22,697	23,482	35,379	40,863	48,334
Change (%)	24.5	48.5	22.8	-17.6	3.5	50.7	15.5	18.3
Provisions	547	2,376	4,401	4,862	3,071	5,783	8,066	7,397
РВТ	14,566	20,073	23,160	17,835	20,410	29,595	32,798	40,938
Тах	5,080	5,270	5,911	4,548	5,409	7,621	8,593	10,726
Tax Rate (%)	34.9	26.3	25.5	25.5	26.5	25.8	26.2	26.2
PAT	9,486	14,803	17,250	13,287	15,002	21,974	24,205	30,212
Change (%)	40.3	56.1	16.5	-23.0	12.9	46.5	10.2	24.8
Dividend (Excl Tax)	1,812	2,372	1,777	2,539	2,539	3,005	3,272	3,668
BALANCE SHEET								
Y/E MARCH	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Equity Share Capital	1,686	1,690	1,693	1,693	1,693	1,693	1,693	1,693
Reserves & Surplus	43,561	55,771	71,382	81,991	94,756	1,13,788	1,34,720	1,61,265
Networth (Post-OCI)	45,247	57,461	73,074	83,683	96,449	1,15,481	1,36,413	1,62,957
Non-Controlling Interest	459	583	472	161	203	289	314	339
Borrowings	1,52,972	2,25,735	2,27,163	2,41,185	2,84,830	3,36,535	3,98,942	4,63,382
Change (%)	21.3	47.6	0.6	6.2	18.1	18.2	18.5	16.2
Other liabilities	5,862	11,572	12,669	13,076	13,559	15,175	16,692	18,361
Change (%)	1.0	97.4	9.5	3.2	3.7	11.9	10.0	10.0
Total Liabilities	2,04,540	2,95,351	3,13,378	3,38,106	3,95,041	4,67,479	5,52,361	6,45,040
Loans	1,78,119	2,42,971	2,65,076	2,89,710	3,41,945	4,09,476	4,86,709	5,69,960
Change (%)	16.8	36.4	9.1	9.3	18.0	19.7	18.9	17.1
Investments	1,738	905	3,380	4,207	5,340	7,263	7,990	8,789
Change (%)	3,428.0	-47.9	273.6	24.5	26.9	36.0	10.0	10.0
Goodwill	356	356	356	356	356	356	356	356
Net Fixed Assets	3,319	7,705	8,980	10,295	10,748	10,677	11,744	12,919
Other assets	21,009	43,414	35,586	33,538	36,652	39,708	45,562	53,017

Total Assets E: MOFSL Estimates 2,04,540

2,95,351

3,13,378

3,38,106

3,95,041

4,67,479

5,52,361

6,45,040

Financials and valuations

RATIOS								
Y/E MARCH	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Spreads Analysis (%)								
Avg Yield on loans	24.5	25.1	24.4	21.1	20.4	22.5	22.5	22.4
Avg Cost of funds	9.6	9.7	9.8	8.6	8.3	9.2	9.9	9.8
Spreads	14.8	15.4	14.6	12.5	12.1	13.3	12.6	12.6
Net Interest Margins	16.3	16.4	15.6	13.8	13.5	14.9	14.4	14.4
Profitability Ratios (%)								
RoAE	22.8	28.8	26.4	17.0	16.7	20.7	19.2	20.2
RoAA	5.1	5.9	5.7	4.1	4.1	5.1	4.7	5.0
Cost to Income	47.8	39.6	33.7	44.8	48.5	41.6	41.1	40.5
Empl. Cost/Op. Exps.	52.0	56.3	60.2	61.0	66.4	63.5	63.4	64.1
Asset Quality								
GNPL (INR m)	826	1,677	3,951	6,623	3,211	5,467	7,787	8,549
GNPL ratio (%)	0.5	0.9	1.9	2.9	1.3	6.8	1.6	1.5
NNPL (INR m)	481	1,092	2,092	5,674	2,554	4,559	6,463	7,011
NNPL ratio (%)	0.3	0.6	0.8	2.0	0.7	1.1	1.3	1.2
PCR (%)	41.7	34.9	47.1	14.3	20.4	16.6	17.0	18.0
Valuations	FY19	FY20	FY21	FY22	FY23	FY24	FY25E	FY26E
Book Value (INR)	54	68	86	99	114	136	161	193
Price-BV (x)	3.9	3.0	2.4	2.1	1.8	1.5	1.3	1.1
EPS (INR)	11.3	17.5	20.4	15.7	17.7	26.0	28.6	35.7
Change YoY (%)	40.3	55.7	16.3	-23.0	12.9	46.5	10.2	24.8
Price-Earnings (x)	18.4	11.8	10.5	13.2	11.7	8.0	7.2	5.8
Dividend	2.1	2.8	2.1	3.0	3.0	3.6	3.9	4.3
Dividend Payout (%)	23.0	19.3	10.3	19.1	16.9	13.7	13.5	12.1
Dividend Yield (%)	1.0	1.4	1.0	1.4	1.4	1.7	1.9	2.1
		=			=			

E: MOFSL Estimates

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

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 service transactions. Details of pending Enquiry Proc 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 2011294012), 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 3
- 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 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. 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:

Grievance Redressal

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.: Motial 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.