

Repco Home Finance

Estimate change



TP change



Rating change



Bloomberg	REPCO IN
Equity Shares (m)	63
M.Cap.(INRb)/(USDb)	14.6 / 0.2
52-Week Range (INR)	277 / 113
1, 6, 12 Rel. Per (%)	20/2/46
12M Avg Val (INR M)	75
Free float (%)	62.9

Financials & Valuations (INR b)

Y/E March	FY23	FY24E	FY25E
NII	5.6	5.8	6.6
PPP	4.5	4.7	5.4
PAT	3.0	3.3	3.8
EPS (INR)	47.3	52.8	60.6
EPS Gr. (%)	55	12	15
BV/Sh. (INR)	402	452	509

Ratios

NIM (%)	4.8	4.6	4.6
C/I ratio (%)	24.4	25.3	24.4
RoAA (%)	2.4	2.5	2.6
RoE (%)	12.5	12.4	12.6
Payout (%)	5.7	5.7	5.5

Valuation

P/E (x)	4.9	4.4	3.8
P/BV (x)	0.6	0.5	0.5
P/ABV (x)	0.6	0.6	0.5
Div. Yield (%)	1.2	1.3	1.4

Shareholding pattern (%)

As On	Mar-23	Dec-22	Mar-22
Promoter	37.1	37.1	37.1
DII	18.0	17.0	19.7
FII	14.6	16.7	17.9
Others	30.3	29.3	25.2

FII Includes depository receipts

CMP: INR233
TP: INR255 (+10%)
Neutral

In-line quarter with sequential expansion in margins

- Repco Home Finance (REPCO)'s 4QFY23 PAT jumped 95% YoY to INR821m, driven by a sharp decline in credit costs to ~25bp (PY: ~210bp). NII grew 5% YoY to INR1.5b. PPOP was largely stable YoY at INR1.2b during the quarter.
- GNPA/NNPA improved ~40bp each QoQ to 5.8%/3.0% and the company increased its PCR on S3 loans by ~350bp QoQ to ~50%. ECL/EAD was flat sequentially at 4.2% in 4QFY23.
- We would wait for: a) the asset quality outcome of the restructured pool that has resumed repayments but still remains vulnerable; b) further scale-up in disbursements; c) moderation in credit costs and d) further decline in BT-OUT run-rate, before turning constructive on the stock again.
- We raise our FY25E EPS by 2% to factor in lower credit costs and opex. We model a loan growth of 10%/12% in FY24/FY25 and PAT CAGR of 13% over FY23-FY25E. With RoA/RoE of 2.6%/12.6% in FY25E, we maintain our **Neutral rating** on the stock with a TP of INR255 (premised on 0.5x FY25E BVPS). Confidence in healthier loan growth and improvement in asset quality will be the potential catalysts for any re-rating in the stock.

Loan growth muted; disbursements rise sequentially

- REPCO's 4QFY23 performance was characterized by ~20% QoQ growth in disbursements. Loan growth remained muted at ~2% QoQ to ~INR124.5b. The subdued AUM growth was due to elevated repayment rate of 19%.
- Disbursements grew 65% YoY to ~INR29b in FY23 (PY: ~INR17.7b).
- The contributions of self-employed customers/LAP loans in the loan mix improved sequentially by ~70bp/60bp to ~52%/21%.

Spreads decline sequentially but margins improve; opex moderates

- REPCO's reported spreads declined ~30bp QoQ to 3% while reported margin expanded sequentially to 5.1%.
- The sequential ~30bp rise in yields to 11.1% was offset by a ~60bp QoQ increase in CoF to 8.1%. A majority of REPCO's bank borrowings is MCLR-linked and the consequent increase in bank MCLR during the quarter led to the rise in the borrowing costs.
- The company has implemented an increase in its minimum lending rates (MLR), which has resulted in a sequential improvement in margins. It has transitioned from bi-annual resets to quarterly resets for the re-pricing of its incremental loans.
- Cost-to-income ratio (CIR) improved ~40bp YoY to ~24% (PY: 23.5%). REPCO expects the same to moderate further due to improvement in productivity.

Other details

- REPCO reported a 4QFY23 RoA/RoE of 2.7%/14.4%.
- CRAR was healthy at ~36%. The company remained over-capitalized in the absence of any meaningful growth in loan book.

Key highlights from the management commentary

- REPCO guided for loan book to grow ~12% YoY and disbursements & sanctions to increase ~20% YoY in FY24.
- Management guided for steady state margin of ~4.8%.

Valuation and view

- While the asset quality continues to improve, we would look forward to execution from the management to deliver on guided asset quality metrics and making directional progress towards the targets set out for FY24. We expect credit costs to moderate; we now estimate credit costs of ~20bp each in FY24/FY25.
- We expect REPCO to be able to maintain a steady NIM of 4.6% over FY24/FY25, despite it being strongly focused on customer retention. While risk-reward appears favorable at current valuation of ~0.6x FY24E P/BV, we would wait for further proof of improved execution before turning constructive on the stock again. **Maintain Neutral with a TP of INR255 (based on 0.5x FY25E BVPS).**

Quarterly performance

(INR m)

Y/E March	FY22				FY23				FY22	FY23	4QFY23E	Act v/s est(%)
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Interest Income	3,205	3,304	3,211	3,084	2,980	3,064	3,197	3,330	12,804	12,570	3,304	1
Interest Expenses	1,757	1,744	1,719	1,680	1,653	1,692	1,810	1,856	6,899	7,011	1,909	-3
Net Income	1,448	1,560	1,492	1,405	1,327	1,372	1,387	1,474	5,905	5,560	1,395	6
YoY Growth (%)	13.1	11.7	-3.4	-2.6	-8.4	-12.1	-7.0	4.9	8.4	-5.8	-0.7	
Other income	19	42	44	158	90	112	111	108	262	421	145	-25
Total Income	1,467	1,602	1,536	1,563	1,417	1,484	1,499	1,581	6,166	5,981	1,540	3
YoY Growth (%)	11.5	13.4	-2.4	0.9	-3.4	-7.3	-2.4	1.2	5.4	-3.0	-1.5	
Operating Expenses	246	283	344	368	339	343	398	378	1,241	1,458	387	-2
YoY Growth (%)	4.5	10.2	17.9	2.0	37.8	21.1	15.8	2.8	8.4	17.5	5.1	
Operating Profits	1,221	1,318	1,192	1,195	1,078	1,141	1,101	1,203	4,926	4,523	1,153	4
YoY Growth (%)	13.0	14.1	-7.0	0.6	-11.7	-13.4	-7.7	0.7	4.7	-8.2	-3.5	
Provisions	783	169	765	613	237	188	12	79	2,331	516	48	64
Profit before Tax	437	1,149	427	582	841	954	1,089	1,124	2,595	4,008	1,105	2
Tax Provisions	116	290	112	161	220	242	282	303	680	1,047	293	3
Profit after tax	321	859	315	420	621	712	808	821	1,915	2,961	811	1
YoY Growth (%)	-49.8	6.3	-60.5	-33.5	93.2	-17.2	156.6	95.3	-33.4	54.6	93.1	
Loan growth (%)	0.1	-1.7	-2.3	-3.0	-1.0	1.5	3.5	5.9	-4.6	5.9	5.0	
Cost to Income Ratio (%)	16.8	17.7	22.4	23.5	23.9	23.1	26.6	23.9	20.1	24.4	25.1	
Tax Rate (%)	26.5	25.2	26.3	27.7	26.2	25.4	25.8	27.0	26.2	26.1	26.5	
Key Parameters (%)												
Yield on loans (Cal)	10.6	11.1	10.8	10.5	10.1	10.2	10.5	10.8	11.1	10.8		
Cost of funds (Cal)	7.0	7.0	7.0	7.0	7.0	7.1	7.5	7.6	6.9	7.1		
Spreads (Cal)	3.7	4.1	3.8	3.5	3.1	3.1	3.0	3.2	4.1	3.7		
NIMs (Reported)	4.8	5.2	5.0	5.1	4.6	4.8	4.8	5.1	5.1	4.8		
Credit Cost	2.6	0.6	2.6	2.1	0.8	0.6	0.0	0.3	2.0	0.4		
Cost to Income Ratio	16.8	17.7	22.4	23.5	23.9	23.1	26.6	23.9	20.1	24.4		
Tax Rate	26.5	25.2	26.3	27.7	26.2	25.4	25.8	27.0	26.2	26.1		
Balance Sheet												
AUM (INR B)	119.9	118.9	117.9	117.6	118.6	120.7	122.0	124.5	117.6	124.5		
Change YoY (%)	0.1	-1.7	-2.3	-3.0	-1.0	1.5	3.5	5.9	-3.0	5.9		
AUM Mix (%)												
Non-Salaried	51.5	51.5	51.3	51.2	51.2	51.0	50.9	51.6	51.2	51.6		
Salaried	48.5	48.5	48.7	48.8	48.8	49.0	49.1	48.4	48.8	48.4		
AUM Mix (%)												
Home loans	81.3	81.3	81.2	80.9	80.7	80.4	79.9	79.3	80.9	79.3		
LAP	18.7	18.7	18.8	19.1	19.3	19.6	20.1	20.7	19.1	20.7		
Disbursements (INR B)	2.4	4.8	4.4	6.0	6.4	7.5	7.0	8.4	17.7	29.2		
Change YoY (%)	32.0	3.6	-19.5	-6.1	167.9	54.0	56.8	38.9	-3.9	65.0		
Borrowings (INR B)	100.0	99.0	96.1	96.9	93.1	96.4	96.0	99.2	97	99.2		
Change YoY (%)	-1.5	-3.9	-6.4	-4.9	-6.9	-2.6	-0.2	2.4	-4.9	2.4		
Loans/Borrowings (%)	119.9	120.2	122.6	121.4	127.4	125.2	127.1	125.4	121.4	125.4		
Borrowings Mix (%)												
Banks	66.0	69.9	69.9	68.1	71.0	71.8	72.1	73.8	68.1	73.8		
NHB	23.4	19.1	19.3	20.7	19.3	17.4	16.5	15.1	20.7	15.1		
Repco Bank	10.7	10.9	10.7	11.2	9.8	10.8	11.4	11.1	11.2	11.1		
Asset Quality												
GS 3 (INR B)	5.3	5.1	8.2	8.2	7.6	7.9	7.5	7.2	8.2	7.2		
Gross Stage 3 (% on Assets)	4.4	4.3	7.0	7.0	6.4	6.5	6.2	5.8	7.0	5.8		
NS 3 (INR B)	3.1	2.9	5.8	5.6	4.8	4.5	4.0	3.6	5.6	3.6		
Net Stage 3 (% on Assets)	2.7	2.5	5.1	4.9	4.2	3.9	3.5	3.0	4.9	3.0		
PCR (%)	42.1	43.3	30.1	31.8	36.8	43.1	46.2	49.6	31.8	49.6		
Return Ratios (%)												
ROA (Rep)	1.1	2.9	1.1	1.4	2.1	2.4	2.7	2.7	1.6	2.4		
ROE (Rep)	6.6	17.3	6.2	8.2	11.9	13.3	14.7	14.4	8.6	11.8		

E: MOFSL Estimates



Highlights from the management commentary

Business updates

- The AUM grew 6% YoY and 2% QoQ while disbursements rose ~20% QoQ to ~INR8.4b (PQ: ~INR7.0b).
- The new software launched in Feb'23 is expected to be an enabler in scaling up disbursements and has been positively accepted in pilot branches.
- The C/I ratio improved to ~24% in 4QFY23 (PY: 23.5%) and the same is expected to moderate further driven by productivity improvement.

Guidance

- REPCO guided for loan book to grow ~12% YoY and disbursements & sanctions to increase ~20% YoY in FY24.
- The GNPA is expected to reduce by ~INR1b in FY24.
- The margins for 4QFY23/FY23 stood at 5.1%/ 4.8%. Management guided for steady state margins of ~4.8%.
- The home equity book contributes ~21% to the loan book and the same is expected to increase to ~25% of the mix. Management plans to scale up the home equity book without compromising on the quality of the same.
- REPCO plans to open 10 new branches and 10 new satellite centers in FY24E.
- Management guided for maximum credit costs of INR250m in FY24.
- It expects to start witnessing growth in Gujarat and Maharashtra in FY24.

BT-Outs

- In FY23, the company experienced BT-Outs of ~INR3.7b, which accounted for ~3% of the opening AUM. However, during the same period, the company also recorded BT-Ins of ~INR2b.
- The company has established a dedicated team to monitor BT-Outs and is making conscious efforts to effectively manage BT-Outs.
- The BT-Ins were driven by the company's improved customer servicing and competitive pricing, which have proven to be attractive to customers seeking balance transfers.

Yields

- The company has implemented an increase in its minimum lending rates (MLR), which has resulted in a sequential improvement in margins.
- Previously the reset of interest rates happened every six months on the back book. However, the company has transitioned from bi-annual resets to quarterly resets for the re-pricing of its loans.
- The incremental CoF for 4QFY23 was at 8.1%. The company expects QoQ improvement in yields and NII as it has reduced its re-pricing period and increased MLR.

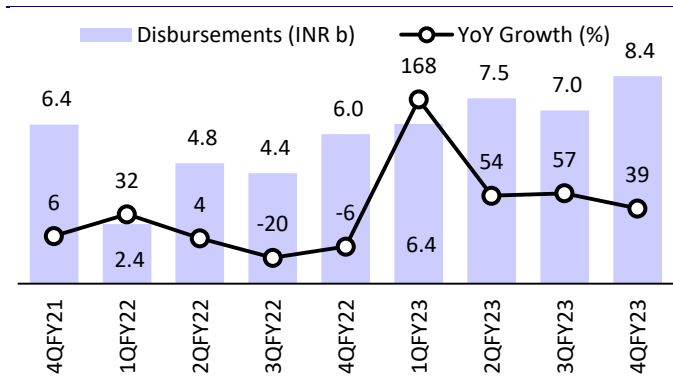
Asset quality

- REPCO's outstanding restructured book currently stands at INR7b, of which ~INR2b has slipped.
- Out of the outstanding restructured book of ~INR4b as of Mar'23, ~INR1.5-2.0b formed part of Stage 2 loans.

- The company is witnessing accelerated repayments from the restructured book and anticipates that it will not have a notable impact on asset quality in FY24.
- REPCO carries provisions of 0.5% on Stage 1 book and ~6.5% on Stage 2 book.
- The Stage 2 book is ~12-13% of the gross assets and the Stage 3 forms ~5.8% of the gross assets.
- The Stage 2+3 book stands at ~18% on which the company carries provisions of ~4.2%.
- It has created a separate collection team of 66 employees on Apr'23 and is confident that the same will lead to improvement in collections and arrest flow to higher buckets.
- The company expects Stage 2+3 to improve to below 10% in FY24.

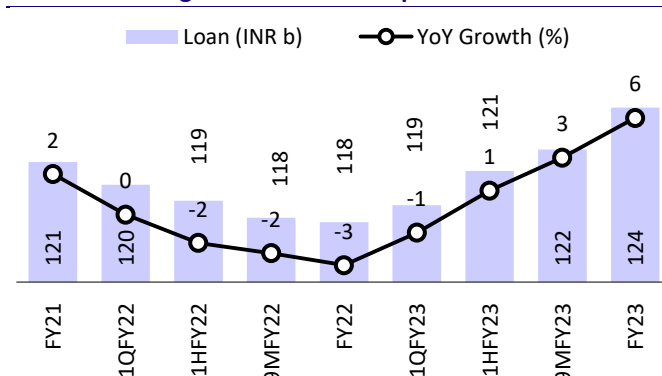
Key exhibits

Exhibit 1: Disbursements rose ~39% YoY



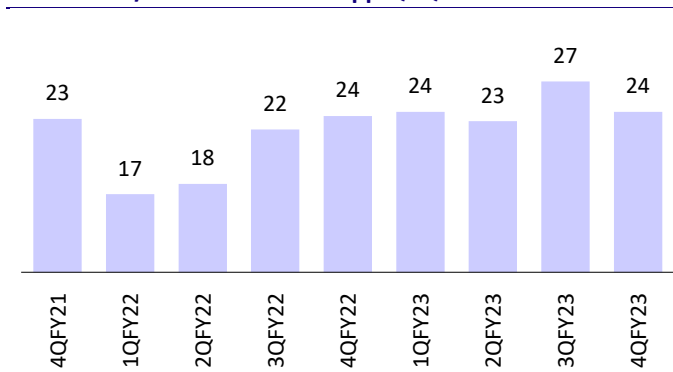
Source: MOFSL, Company

Exhibit 2: Loan growth remained tepid



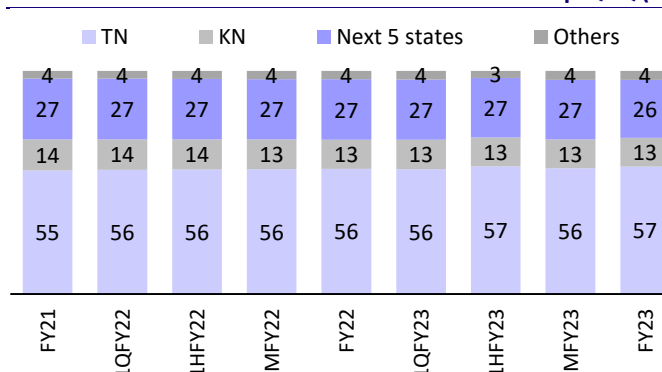
Source: MOFSL, Company;

Exhibit 3: C/I ratio decreased 3pp QoQ



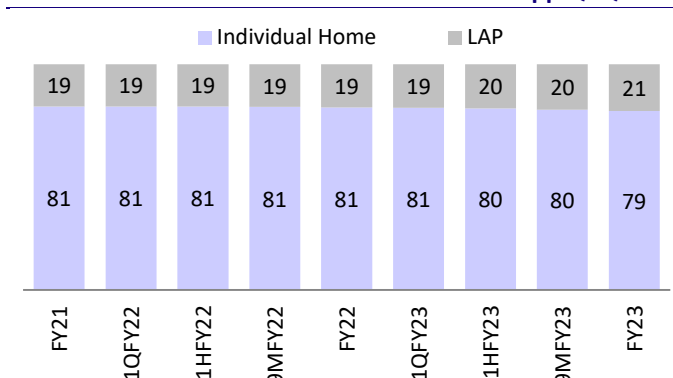
Source: MOFSL, Company

Exhibit 4: Share of TN in loan mix increased ~100bp QoQ (%)



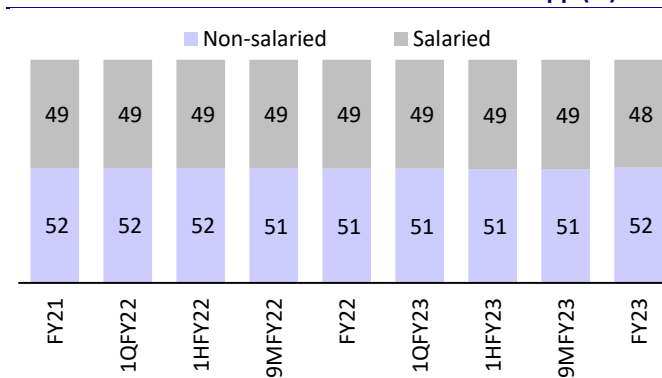
Source: MOFSL, Company

Exhibit 5: Share of home loan book declined ~1pp QoQ

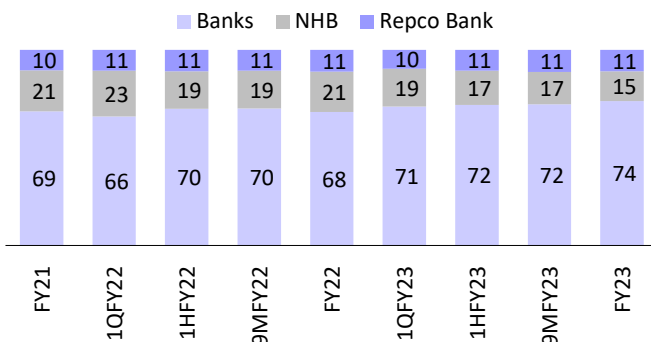


Source: MOFSL, Company

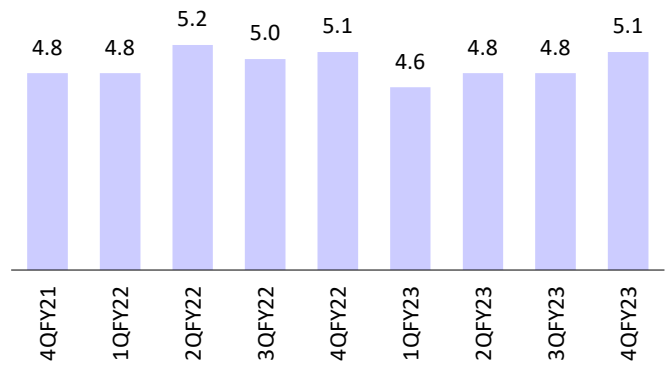
Exhibit 6: Share of salaried customers declined 1pp (%)



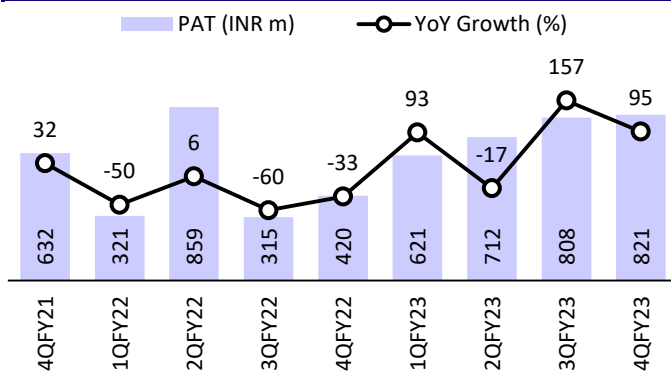
Source: MOFSL, Company

Exhibit 7: Proportion of NHB borrowings declined to ~15%

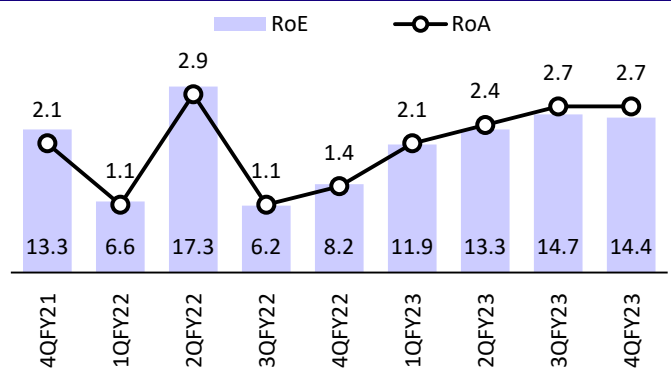
Source: MOFSL, Company

Exhibit 8: NIM expanded sequentially by 30bp (%)

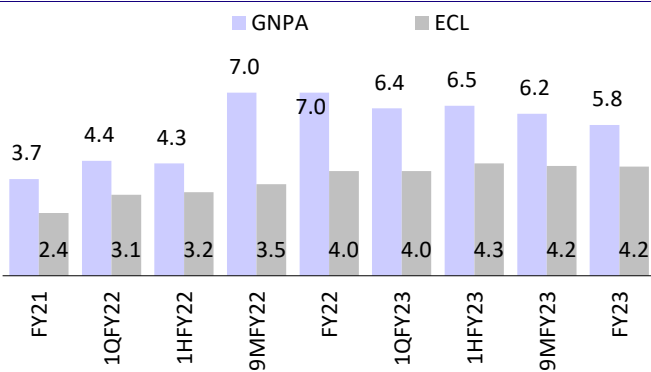
Source: MOFSL, Company, Reported

Exhibit 9: PAT increased 2% QoQ

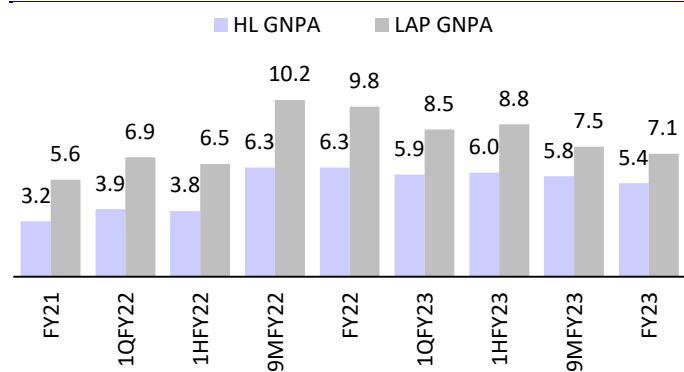
Source: MOFSL, Company

Exhibit 10: RoE/RoA trends (%)

Source: MOFSL, Company

Exhibit 11: GS3 improved sequentially to 5.8% while ECL/EAD was stable at 4.2%

Source: MOFSL, Company;

Exhibit 12: LAP continued to show more stress than home loans (%)

Source: MOFSL, Company;

Valuation and view

- While the asset quality continues to improve, we would look forward to execution from the management to deliver on guided asset quality metrics and making directional progress towards the targets set out for FY24. We expect credit costs to moderate; we now estimate credit costs of ~20bp each in FY24/FY25.
- We expect REPCO to be able to maintain a steady NIM of 4.6% over FY24/FY25, despite it being strongly focused on customer retention. While risk-reward appears favorable at current valuation of ~0.6x FY24E P/BV, we would wait for further proof of improved execution before turning constructive on the stock again. **Maintain Neutral with a TP of INR255 (based on 0.5x FY25E BVPS).**

Exhibit 13: We raise our FY25 EPS estimates by 2% to factor in lower credit costs and opex

INR b	Old Est.		New Est.		Change (%)	
	FY24E	FY25E	FY24E	FY25E	FY24E	FY25E
NII	5.9	6.5	5.8	6.6	-0.8	2.2
Other Income	0.5	0.6	0.5	0.6	-8.0	-8.0
Total Income	6.4	7.1	6.3	7.2	-1.4	1.3
Operating Expenses	1.6	1.8	1.6	1.7	-0.6	-0.6
Operating Profits	4.8	5.3	4.7	5.4	-1.7	1.9
Provisions	0.3	0.3	0.3	0.3	-18.9	-4.6
PBT	4.5	5.0	4.5	5.1	-0.5	2.3
Tax	1.2	1.3	1.2	1.3	0.0	2.8
PAT	3.3	3.7	3.3	3.8	-0.6	2.1
Loan book	131	146	134	150	1.9	2.7
NIM (%)	4.7	4.6	4.6	4.6		
Spreads (%)	3.2	3.2	3.3	3.3		
ROAA (%)	2.6	2.6	2.5	2.6		
RoAE (%)	12.4	12.3	12.4	12.6		

Source: MOFSL, Company

Exhibit 14: One-year forward P/E

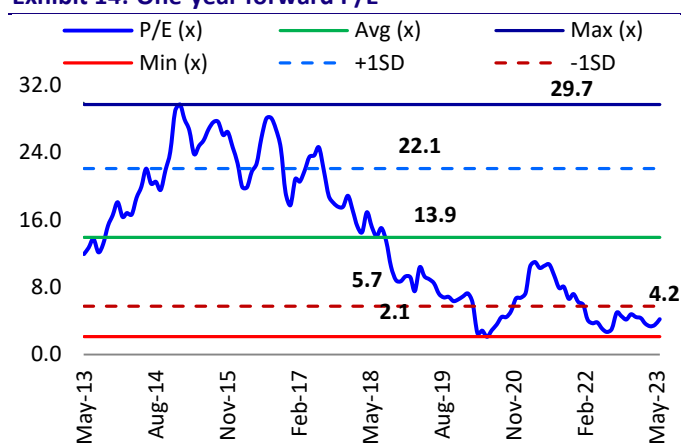
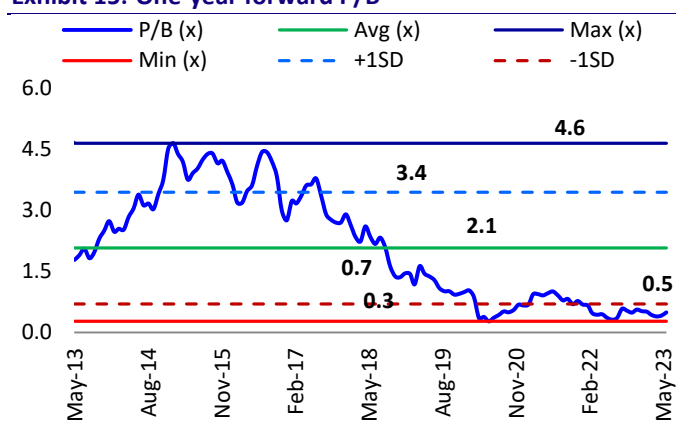


Exhibit 15: One-year forward P/B



Financials and valuations

Income statement								(INR m)	
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Interest Income	10,141	10,851	11,634	13,174	13,518	12,804	12,570	14,049	15,871
Interest Expended	6,463	6,489	7,200	8,250	8,072	6,899	7,011	8,208	9,278
Net Interest Income	3,678	4,362	4,434	4,924	5,446	5,905	5,560	5,841	6,593
Change (%)	21.0	18.6	1.7	11.0	10.6	8.4	-5.8	5.1	12.9
Other Operating Income	318	250	318	337	404	262	421	497	587
Net Income	3,996	4,612	4,752	5,261	5,850	6,166	5,981	6,338	7,180
Change (%)	19.8	15.4	3.1	10.7	11.2	5.4	-3.0	6.0	13.3
Operating Expenses	676	790	984	1,065	1,144	1,241	1,458	1,605	1,749
Operating Income	3,320	3,822	3,768	4,196	4,706	4,926	4,523	4,733	5,431
Change (%)	23.3	15.1	-1.4	11.4	12.1	4.7	-8.2	4.6	14.8
Provisions/write offs	518	748	170	594	808	2,331	516	260	303
PBT	2,802	3,074	3,598	3,602	3,898	2,595	4,008	4,472	5,128
Extraordinary Items	0	0	0	0	0	0	0	0	0
PBT after EO	2,802	3,074	3,598	3,602	3,898	2,595	4,008	4,472	5,128
Tax	979	1,063	1,252	798	1,022	680	1,047	1,168	1,339
Tax Rate (%)	34.9	34.6	34.8	22.2	26.2	26.2	26.1	26.1	26.1
DTL on Special Reserve									
PAT	1,823	2,010	2,346	2,804	2,876	1,915	2,961	3,304	3,788
Change (%)	21.4	10.3	16.7	19.5	2.6	-33.4	54.6	11.6	14.7
PAT adjusted for EO	1,823	2,010	2,346	2,804	2,876	1,915	2,961	3,304	3,788
Change (%)	21.4	10.3	16.7	19.5	2.6	-33.4	54.6	11.6	14.7
Proposed Dividend	151	165	181	181	156	157	169	188	206

Balance sheet								(INR m)	
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Capital	626	626	626	626	626	626	626	626	626
Reserves & Surplus	10,747	12,459	14,648	17,243	19,967	21,730	24,536	27,653	31,235
Net Worth	11,372	13,085	15,274	17,869	20,593	22,356	25,162	28,278	31,860
Loans from Banks	11,701	9,423	0	0	0	0	0	0	0
Bonds/Debentures	47,572	44,350	0	0	0	0	0	0	0
Borrowings	16,331	27,570	92,774	1,01,090	1,01,974	96,920	99,241	1,09,874	1,23,522
Borrowings	75,604	81,343	92,774	1,01,090	1,01,974	96,920	99,241	1,09,874	1,23,522
Change (%)	15.6	7.6	14.1	9.0	0.9	-5.0	2.4	10.7	12.4
Other liabilities	3,457	2,882	1,522	987	1,093	698	832	915	1,006
Total Liabilities	90,433	97,310	1,09,570	1,19,946	1,23,659	1,19,974	1,25,234	1,39,068	1,56,389
Loans	89,578	96,492	1,08,379	1,15,884	1,18,356	1,12,918	1,19,622	1,33,505	1,49,905
Change (%)	16.3	7.7	12.3	6.9	2.1	-4.6	5.9	11.6	12.3
Investments	156	239	363	321	345	440	477	549	631
Change (%)	25.8	53.5	51.5	-11.6	7.4	27.7	8.4	15.0	15.0
Net Fixed Assets	91	135	155	372	314	353	396	416	437
Other assets	609	443	673	3,369	4,645	6,263	4,740	4,598	5,416
Total Assets	90,433	97,310	1,09,570	1,19,946	1,23,659	1,19,974	1,25,234	1,39,068	1,56,389

E: MOFSL Estimates

Financials and valuations

Ratios									(%)
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Spreads Analysis (%)									
Avg Yield on Loans	12.2	11.6	11.4	11.7	11.5	11.1	10.8	11.1	11.2
Avg. Cost of Borrowings	9.2	8.3	8.3	8.5	8.0	6.9	7.1	7.9	8.0
Interest Spread	3.0	3.4	3.1	3.2	3.6	4.1	3.6	3.2	3.2
Net Interest Margin	4.4	4.7	4.3	4.4	4.6	5.1	4.8	4.6	4.6
Profitability Ratios (%)									
RoE	17.4	16.4	16.5	16.9	15.0	8.9	12.5	12.4	12.6
RoA	2.2	2.1	2.3	2.4	2.4	1.6	2.4	2.5	2.6
Int. Expended/Int. Earned	63.7	59.8	61.9	62.6	59.7	53.9	55.8	58.4	58.5
Other Inc./Net Income	8.0	5.4	6.7	6.4	6.9	4.2	7.0	7.8	8.2
Efficiency Ratios (%)									
Op. Exps./Net Income	16.9	17.1	20.7	20.2	19.6	20.1	24.4	25.3	24.4
Empl. Cost/Op. Exps.	63.8	62.6	59.5	62.4	62.3	63.4	60.3	61.3	61.9
Asset Quality (%)									
Gross NPAs	2,328	2,827	3,258	5,117	4,485	8,198	7,187	6,218	5,551
Gross NPAs to Adv.	2.6	2.9	3.0	4.3	3.7	7.0	5.8	4.5	3.6
Net NPAs	1,227	1,255	1,507	3,287	2,714	5,587	3,621	2,736	2,220
Net NPAs to Adv.	1.4	1.3	1.4	2.8	2.3	4.9	3.0	2.0	1.5
VALUATION									
Book Value (INR)	181.8	209.2	244.1	285.6	329.2	357.1	402.2	452.0	509.3
Price-BV (x)				0.8	0.7	0.7	0.6	0.5	0.5
EPS (INR)	29.1	32.1	37.5	44.8	46.0	30.6	47.3	52.8	60.6
EPS Growth YoY	21.4	10.3	16.7	19.5	2.6	-33.4	54.7	11.6	14.7
Price-Earnings (x)				5.2	5.1	7.6	4.9	4.4	3.8
Dividend per share (INR)	2.0	2.2	2.5	2.5	2.5	2.5	2.7	3.0	3.3
Dividend yield (%)				1.1	1.1	1.1	1.2	1.3	1.4
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://online.reports.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") (Co. Reg. NO. 201129401Z) which is a holder of a capital markets services license and an exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisors Act (CAP 110) provided to MOCMSPL by Monetary Authority of Singapore. Persons in Singapore should contact MOCMSPL in respect of any matter arising from, or in connection with this report/publication/communication. This report is distributed solely to persons who qualify as "Institutional Investors", of which some of whom may consist of "accredited" institutional investors as defined in section 4A(1) of the Securities and Futures Act, Chapter 289 of Singapore ("the SFA"). Accordingly, if a Singapore person is not or ceases to be such an institutional investor, such Singapore Person must immediately discontinue any use of this Report and inform MOCMSPL.

Specific Disclosures

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

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.
- received compensation/other benefits from the subject company in the past 12 months
- any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.
- Served subject company as its clients during twelve months preceding the date of distribution of the research report.

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

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

Analyst Certification

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

Terms & Conditions:

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

Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and 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.

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.