

# **Financials**

Traccury Income	
Treasury Income (INRb)	1QFY23
AXSB	-6.7
HDFCB	-13.1
ICICIBC	0.4
IIB	1.5
KMB	-4.1
FB	0.3
RBK	0.8
AUBANK	-0.6
Total Private Banks	-21.6

Treasury Income (INRb)	1QFY23
ВоВ	-7.7
Bol	-1.5
СВК	8.9
INBK	-1.3
PNB	-8.4
SBIN	-65.5
UNBK	1.7
Total PSU Banks	-73.8

Bond	4Q	1Q	2Q	Current
Yields (%)	FY22	FY23	FY23	Current
Govt.				
Securities				
Gvt 1 Yr Yield	4.7	6.2	6.7	6.8
Gvt 3 Yr Yield	5.8	7.0	7.1	7.1
Gvt 5 Yr Yield	6.3	7.3	7.3	7.3
Gvt 10 Yr Yield	6.8	7.4	7.4	7.4
Corporate Bonds				
AAA Bond 1Yr Rate	5.0	6.6	7.3	7.1
AAA Bond 3Yr Rate	6.0	7.4	7.4	7.8
AAA Bond 5Yr Rate	6.4	7.5	7.6	7.7
AAA Bond 10Yr Rate	7.2	7.8	7.8	7.9
AA Bond 1Yr Rate	5.5	7.4	7.9	7.7
AA Bond 3Yr Rate	6.7	8.1	8.0	8.5
AA Bond 5Yr Rate	7.1	8.2	8.3	8.5
AA Bond 10Yr Rate	7.9	8.5	8.5	8.6

## Treasury losses set to moderate

Sharp rise in short-term yields; yield curve slope witnessing normalization

- In 1QFY23, our banking coverage universe reported treasury losses of INR95.4b, led by INR21.6b for Private Banks and INR73.8b for PSU banks.
- The losses was primarily due to a sharp 113bp/61bp increase in 3yr/10yr G-sec yields in 1QFY23. The increase in yields was partly led by the policy rate hikes by RBI as the central bank increased repo rate by 90bp in the same quarter.
- In 2QFY23, RBI further increased repo rate by 100bp, thus, taking the policy rate to 5.9%. However, the longer duration G-sec yields have been broadly stable in the quarter, with the same up -5bp-+49bp across tenors, while AAA-rated corporate bonds have increased -6bp-+69bp with higher increase in shorter maturity bonds.
- Although stability in bond-yields at medium to longer end of the curve will aid treasury performance of banks, the sharp rise in yields in shorter tenure bonds may drive MTM losses for select banks, though the same is likely to moderate sequentially. FB has recently reported treasury gain of INR700m in 2QFY23, BOM reported gains of INR360m (vs loss of INR920m in 1QFY23), while HDFCB reported controlled loss of INR2.5b, primarily in the shorter duration bonds. We seek some comfort as we note that AFS + HFT book stands at 19-42% of total investments for PSBs with a reduced modified duration of 0.9-2.1 years.
- With continued monetary tightening and our assumption of 6.5% terminal reporate, we remain watchful of further hardening of yields (AA/AAA-rated corporate bond yields have increased up to 45bp in Oct'22), which could have an adverse impact on treasury performance, especially PSU banks.

### PSU/Private banks reported treasury loss of INR73.8b/INR21.6b in 1QFY23

Over 1QFY23, private banks under our coverage reported treasury losses of INR21.6b, while PSU banks reported treasury losses of INR73.8b. Within PSU banks, SBIN, PNB, and BoB reported treasury losses of INR65.5b, INR8.4b, and INR7.7b, while BOI/INBK reported modest losses of INR1.5b/INR1.3b. Surprisingly, CBK and UNBK reported treasury gains of INR8.9b and INR1.7b. Among private banks, HDFCB, AXSB, and KMB reported treasury losses of INR13.1b, INR6.7b, and INR4.1b, while AUBANK reported a loss of INR0.6b. However, other private banks reported gains with IIB at INR1.5b, RBK at INR0.8b, and ICICIBC/FB at ~INR0.3-0.4b.

### 2QFY23: Divergent trend in G-sec yields across tenor

G-sec yields have reacted sharply to ongoing policy measures with 10-yr yields moving up 56bp to 7.4% in 1HFY23. We note that 1yr/3yr/5yr G-sec yields have increased 203bp/126bp/99bp in 1HFY23 vs 36bp-92bp increase in FY22. This had an adverse impact on the bank's treasury performance as top PSU banks reported treasury losses of INR73.8b in 1QFY23 (INR95.4b loss by our banking sector coverage). However, we note that over 2QFY23, the yields have been broadly stable with a 5bp decline for 10Yr G-Sec, while 3Yr/5Yr G-sec yields witnessed a marginal increase of 14bp/6b. However, 1Yr Treasury bond yields increased a sharp 49bp.

### AAA bond yields up -6bp-+69bp in 2QFY23; AA bond yield up -4bp-+51bp

AAA corporate bond yields have also reacted sharply with 10yr AAA bond yields moving up 60bp to 7.8% over 1HFY23. We note that 1yr/3yr/5yr AAA bond yields have increased 238bp/139bp/112bp in 1HFY23 vs 16bp-80bp increase in FY22. Over 2QFY23, the bond yields have been broadly stable in the -6bp-+1bp range, barring 1yr AAA bond yield, which increased 69bp. Similarly, AA bond yields have also been stable in -4bp-+6bp range, barring 1yr AA bond yield, which increased 51bp.

### AFS + HFT book forms 19-42%; lower duration provides further comfort

We note that many PSU banks have reduced their mix of AFS book and are focused on reducing the duration of investment portfolio to limit the adverse impact of interest rate increase on their bond portfolio. The AFS+HFT book stands at 19-42% of total investment across banks with the highest for SBIN and BoB, while lower for CBK and PNB. Further, the modified duration for most of the PSU bank bonds stand at 1.4-2.1 years range, barring UNBK, which has the lowest duration at 0.9 years. On the other hand, BOI has a much higher duration of 3.6 years. Thus, with a gradual moderation in duration of the investment book, we believe incremental losses will be controlled.

### 3M/6M T-Bill yield up 93bp/75bp over 2QFY23

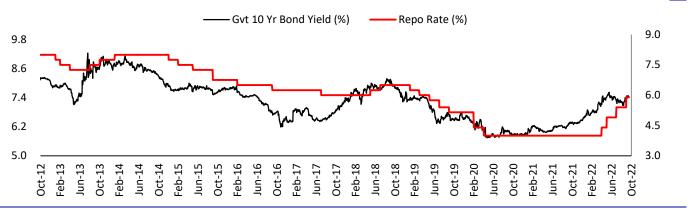
We further note that three-month Treasury bill yield has increased 93bp to ~6.04% over 2QFY23, while the 6-month Treasury bill yield has increased 75bp to ~6.5%. The increase has been much sharper at ~230bp over 1HFY23. We thus remain watchful of select private banks, which have a high proportion of low duration investment assets in their AFS portfolio. Further, our analysis for a 25bp increase in yield suggests that SBIN, PNB, and BoB could be more impacted while UNBK and INB are relatively less vulnerable. Overall, we do not expect banks to report any material treasury losses over 2QFY23, though underlying gains are likely to remain muted. FB in its 2QFY23 results has reported a treasury gain of INR700m, BOM reported gains of INR360m (vs loss of INR920m in 1QFY23), while HDFCB reported controlled losses of INR2.5b, primarily in the shorter duration bonds.

### Remain watchful of further yield hardening; prefer ICICIBC, SBIN, IIB and FB

The treasury portfolio of banks is protected up to a 10yr yield of ~7.4%, which is where the bonds traded at end-1QFY23 and many banks have indicated that incremental losses are likely to be controlled as they have moved their securities to HTM in April and reduced the AFS duration. However, with continued monetary tightening and our assumption of 6.5% terminal repo rate, we remain watchful of further hardening of yields (AA/AAA-rated corporate bond yields have increased up to 45bp in Oct'22), which could have an adverse impact on treasury performance of PSU banks in the coming quarters. However, improvement in operating earnings (moderation in slippages, improving loan growth, and margins) would enable some absorption of these treasury losses. Our top picks in the sector are ICICIBC, SBIN, IIB and FB.

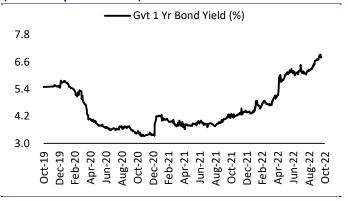
MOTILAL OSWAL Sector Update | Financials

Exhibit 1: RBI increased the repo rate to 5.9% (+190bp in FY23YTD); G-Sec yields increased 57bp over the period



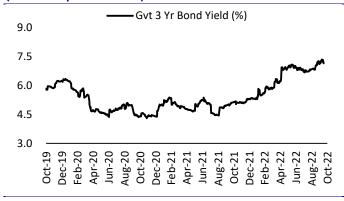
Sources: RBI, MOFSL

Exhibit 2: 1-year G-Sec yield increased 49bp over 2QFY23 (further 8bp over Oct'22)



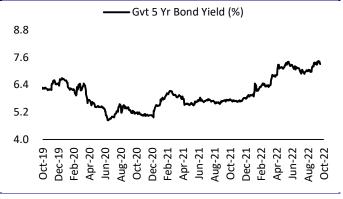
Sources: MOFSL, Company

Exhibit 3: 3-year G-Sec yield increased 14bp over 2QFY23 (further 4bp over Oct'22)



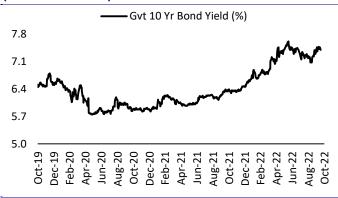
Sources: MOFSL, Company

Exhibit 4: 5-year G-Sec yield increased 6bp over 2QFY23 (stable over Oct'22)



Sources: MOFSL, Company

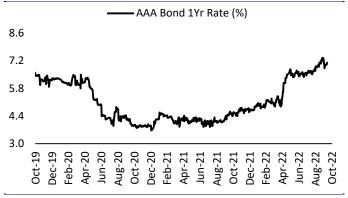
Exhibit 5: 10-year G-Sec yield moderated 5bp over 2QFY23 (stable over Oct'22)



Sources: MOFSL, Company

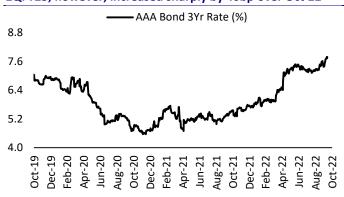
MOTILAL OSWAL Sector Update | Financials

Exhibit 6: 1-year AAA bond yield increased 69bp over 2QFY23; however moderated 23bp over Oct'22



Sources: MOFSL, company reports

Exhibit 7: 3-year AAA bond yield moderated 6bp over 2QFY23; however, increased sharply by 40bp over Oct'22



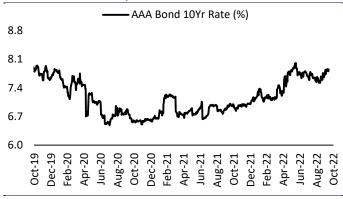
Sources: MOFSL, company reports

Exhibit 8: 5-year AAA bond yield stood stable over 2QFY23; however, increased 18bp over Oct'22



Sources: MOFSL, company reports

Exhibit 9: 10-year AAA bond yield broadly stable over 2QFY23; increased 8bp over Oct'22



Sources: MOFSL, company reports

Exhibit 10: 1-year AA bond yields increased 51bp over 2QFY23; though moderated 20bp over Oct'22



Sources: MOFSL, company reports

Exhibit 11: 3-year AA bond yields moderated 4bp over 2QFY23; however, increased sharply by 45bp over Oct'22



Sources: MOFSL, company reports

MOTILAL OSWAL Sector Update | Financials

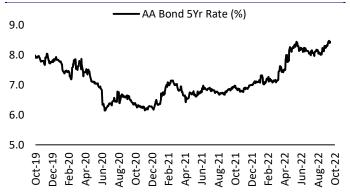
9.0

8.5

8.0

7.5

Exhibit 12: 5-year AA bond yields increased 6bp over 2QFY23 (further 18bp over Oct'22)



Oct-19 Ceb-20 Apr-20 Aug-20 Oct-20 Apr-21 Apr-21 Aug-21 Oct-21 Oct-21 Ceb-21 Feb-21 Feb-21 Feb-22 Feb-22 Ceb-22

Exhibit 13: 10-year AA bond yields stood stable over

AA Bond 10Yr Rate (%)

2QFY23; increased 11bp over Oct'22

Sources: MOFSL, company reports

Sources: MOFSL, company reports

Exhibit 14: Movement in yields across G-Sec and corporate bonds of different maturities over the past 2-3 years

Bond Yields (%)	4QFY20	1QFY21	2QFY21	3QFY21	4QFY21	1QFY22	2QFY22	3QFY22	4QFY22	1QFY23	2QFY23	Current
Govt. Securities												
G-Sec 1Yr Yield	5.0	3.7	3.7	3.4	3.7	3.9	4.0	4.4	4.7	6.2	6.7	6.8
G-Sec 3Yr Yield	5.4	4.4	4.9	4.4	4.9	5.2	4.9	5.3	5.8	7.0	7.1	7.1
G-Sec 5Yr Yield	6.2	5.3	5.4	5.0	6.0	5.7	5.7	5.8	6.3	7.3	7.3	7.3
G-Sec 10Yr Yield	6.1	5.9	6.0	5.9	6.2	6.1	6.2	6.5	6.8	7.4	7.4	7.4
<b>Corporate Bond</b>												
AAA 1Yr Yield	6.0	5.0	4.4	3.9	4.2	4.3	4.2	4.7	5.0	6.6	7.3	7.1
AAA 3Yr Yield	6.5	5.6	5.3	4.7	5.5	5.4	5.3	5.8	6.0	7.4	7.4	7.8
AAA 5Yr Yield	7.0	6.2	6.0	5.5	6.3	6.0	6.0	6.2	6.4	7.5	7.6	7.7
AAA 10Yr Yield	7.5	7.1	6.8	6.6	7.2	6.9	6.9	7.0	7.2	7.8	7.8	7.9
AA 1Yr Yield	6.5	5.8	5.3	4.7	5.0	5.1	5.0	5.3	5.5	7.4	7.9	7.7
AA 3Yr Yield	7.2	6.4	6.1	5.6	6.3	6.3	6.2	6.5	6.7	8.1	8.0	8.5
AA 5Yr Yield	7.6	6.8	6.6	6.2	7.0	6.8	6.8	7.0	7.1	8.2	8.3	8.5
AA 10Yr Yield	8.2	7.5	7.6	7.4	7.6	7.7	7.7	7.8	7.9	8.5	8.5	8.6

Sources: MOFSL, Bloomberg estimates

We note that the gap between 10yr and 1yr G-Sec yield is witnessing normalization.

The same has moderated to 62bp currently vs ~250bp/~230bp in Aug'21/Apr'22

Sources: MOFSL, company reports

18 October 2022

Exhibit 16: 3-month T-bill yield increased 93bp over 2QFY23 (further 18bp over Oct'22)

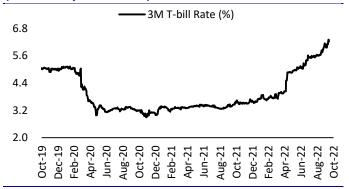
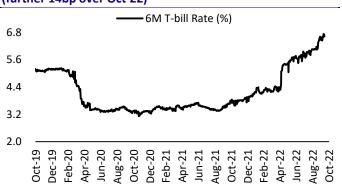


Exhibit 17: 6-month T-bill yield increased 75bp over 2QFY23 (further 14bp over Oct'22)



Sources: MOFSL, company reports

Sources: MOFSL, company reports

Exhibit 18: Trend in treasury profits over the past few quarters

Over 1QFY23, private banks under our coverage reported treasury losses of INR21.6b, while PSU banks reported treasury losses of INR73.8b

1QFY21	2QFY21	3QFY21	4QFY21	1QFY22	2QFY22	3QFY22	4QFY22	1QFY23
5.4	10.1	9.3	8.7	8.4	12.2	4.5	-6.8	-7.7
9.1	2.6	6.5	0.7	8.8	4.3	2.1	-1.1	-1.5
10.0	9.0	15.1	1.8	6.2	11.3	3.2	5.2	8.9
6.3	5.8	1.5	2.9	5.6	4.0	2.5	0.8	-1.3
13.2	6.5	9.9	9.8	14.2	8.8	6.3	0.1	-8.4
24.4	10.8	9.6	-0.4	21.0	4.3	5.1	1.8	-65.5
5.2	10.3	12.8	6.5	9.9	8.0	5.8	9.4	1.7
	5.4 9.1 10.0 6.3 13.2 24.4	5.4 10.1 9.1 2.6 10.0 9.0 6.3 5.8 13.2 6.5 24.4 10.8	5.4     10.1     9.3       9.1     2.6     6.5       10.0     9.0     15.1       6.3     5.8     1.5       13.2     6.5     9.9       24.4     10.8     9.6	5.4     10.1     9.3     8.7       9.1     2.6     6.5     0.7       10.0     9.0     15.1     1.8       6.3     5.8     1.5     2.9       13.2     6.5     9.9     9.8       24.4     10.8     9.6     -0.4	5.4     10.1     9.3     8.7     8.4       9.1     2.6     6.5     0.7     8.8       10.0     9.0     15.1     1.8     6.2       6.3     5.8     1.5     2.9     5.6       13.2     6.5     9.9     9.8     14.2       24.4     10.8     9.6     -0.4     21.0	5.4       10.1       9.3       8.7       8.4       12.2         9.1       2.6       6.5       0.7       8.8       4.3         10.0       9.0       15.1       1.8       6.2       11.3         6.3       5.8       1.5       2.9       5.6       4.0         13.2       6.5       9.9       9.8       14.2       8.8         24.4       10.8       9.6       -0.4       21.0       4.3	5.4     10.1     9.3     8.7     8.4     12.2     4.5       9.1     2.6     6.5     0.7     8.8     4.3     2.1       10.0     9.0     15.1     1.8     6.2     11.3     3.2       6.3     5.8     1.5     2.9     5.6     4.0     2.5       13.2     6.5     9.9     9.8     14.2     8.8     6.3       24.4     10.8     9.6     -0.4     21.0     4.3     5.1	9.1     2.6     6.5     0.7     8.8     4.3     2.1     -1.1       10.0     9.0     15.1     1.8     6.2     11.3     3.2     5.2       6.3     5.8     1.5     2.9     5.6     4.0     2.5     0.8       13.2     6.5     9.9     9.8     14.2     8.8     6.3     0.1       24.4     10.8     9.6     -0.4     21.0     4.3     5.1     1.8

<sup>\*</sup>Excludes stake sale gain of INR15.9b from SBI Life in 1QFY21

Sources: MOFSL, company reports

Treasury income comprised 71%/27% of total PAT over FY21/FY22. Reported losses over 1QFY23, however, it remained under control

Exhibit 19: Trends in aggregate treasury income vs aggregate profits for PSBs

PSBs (INRb)	FY18	FY19	FY20	FY21	FY22	1QFY23
Treasury Income	224.4	33.9	171.6	239.2	165.8	-73.8
Net Profits	-355.2	-165.1	80.3	338.9	606.7	139.0
Treasury Income as % of PAT	NA	NA	214%	71%	27%	NA

Sources: MOFSL, company reports

Exhibit 20: Investment and duration profile of key banks

Data as on 1QFY23 in (INRb)	нтм	AFS	HFT	AFS+HFT as % of Investment	Investments	SLR	Modified duration
ВОВ	2,074	1,129	1	35	3,204	2,674	1.4
BOI	1,298	451	1	26	1,750	1,339	3.6
СВК	2,498	595	1	19	3,095	2,696	NA
INBK	1,319	529	0	29	1,848	1,466	1.9
PNB	3,010	799	1	21	3,810	2,748	2.1
SBIN	8,621	6,315	-3	42	14,934	12,022	2.1
UNBK	NA	895	NA	25	3,556	2,703	0.9

Sources: MOFSL, company reports

Exhibit 21: Treasury losses of PSBs arising from 25bp/50bp increase in portfolio yields

UNBK, BOB, and INBK have the lowest modified duration of their AFS Portfolio

SBI has the highest share of AFS/HFT portfolio at 42% of total investments

		•
Banks (INRb)	25bps	50bps
вов	4.0	7.9
BOI	4.1	8.2
СВК	NA	NA
INBK	2.5	5.1
PNB	4.3	8.6
SBIN	32.8	65.6
UNBK	2.0	4.0
	Courses MOECL com	

Sources: MOFSL, company reports

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 <a href="https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx">https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx</a>

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 brokerdealer, 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.

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

- 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.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- MOFSL. Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- Research Analyst has not served as director/officer/employee in the subject company
  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 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
- 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

18 October 2022

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.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; <a href="https://www.motilaloswal.com">www.motilaloswal.com</a>. 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::022-71881085.

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL: IN-DP-16-2015; NSDL: IN-DP-NSDL-152-2000; 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.