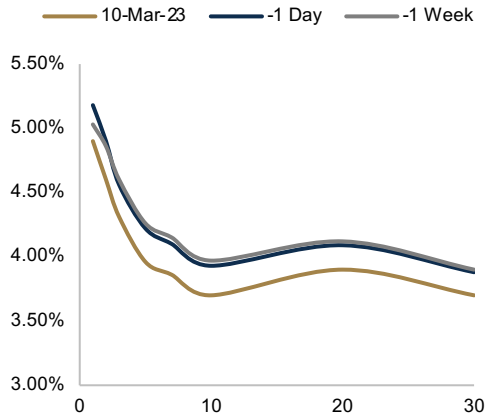


## Exhibit 1. U.S. Treasury Yield



Source : U.S Treasury Department

## Exhibit 2. Global Gov't Bond Yield

Countries	13-Mar-23	-1 Day	-1 Week
U.S	3.58%	3.70%	3.96%
U.K	3.37%	3.64%	3.86%
Germany	2.25%	2.50%	2.74%
Japan	0.32%	0.40%	0.50%
China	2.88%	2.88%	2.89%
Malaysia	3.90%	3.95%	4.04%
Thailand	2.45%	2.51%	2.61%

Source : Bloomberg

## Exhibit 3. Market Indicators

Indicators	Unit	Value
U.S. Treasury	%	3.58
Indo 5-Year CDS	bps	102.78
USD/IDR	points	15,377
BI 7DRR	%	5.75

Source : Bloomberg as of March 13, 2023

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## Global Market Update

- Investors swarmed into safe haven asset as risk of financial crisis heightened driven by Silicon Valley Bank (SVB) and other bank collapse.
- Yield on the short term 2-year note decline sharply to below 4% last night. On the other hand yield on the long-term 10-year note fell 12 bps to 3.58%.
- US stock indices performance varied. Dow Jones and S&P fell but Nasdaq Composite rose 0.45%.
- The shutdown of SVB has jittered that probability of financial crisis increase and thus warning Fed about future tightening of monetary policy is unlikely.
- Market appetite also shifted. Bets on Fed to keep interest rates unchanged increase gradually with the probability of nearly 30% recently.
- Global government bond yields also declined reflecting current investors appetite towards safer asset to hedge against the possibility of economic fallout.

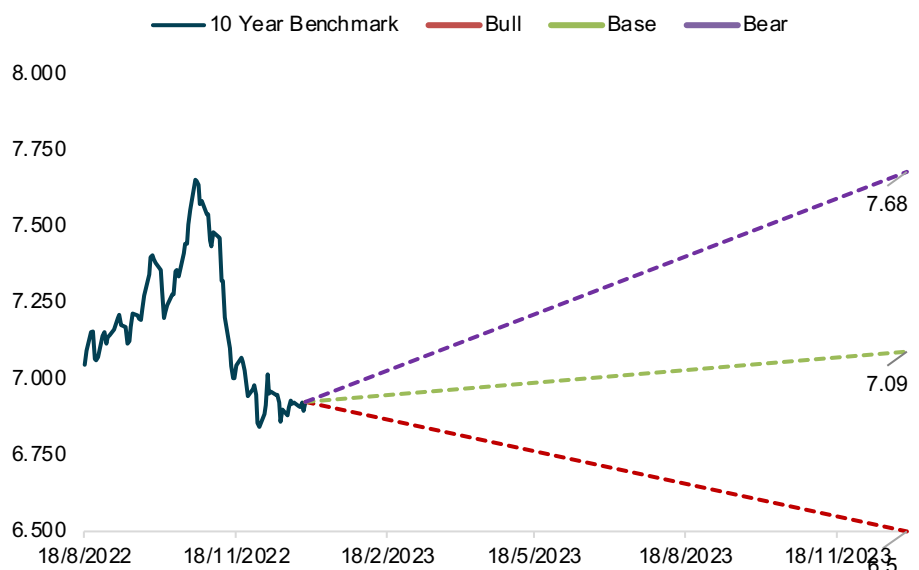
## Domestic Market Update

- Most of domestic currency government bond prices increased on Monday (03/13/23).
- Yield on the benchmark 10-year (FR0096) declined 11 bps to 6.82% yesterday.
- The IDR strengthened against USD and closed at 15,377/USD on Monday (vs IDR15,450/USD last week).
- On the other hand, Indonesia's 5-year CDS still increasing and currently stood at 102.78 bps.
- Current movement in local currency government bond prices also showed that investors tend to weight a safer assets

## Market Projection

- Given the recent development on global and domestic market, we expect the 10 year Indo GB yield to move within a range of 6.75-6.95% for today.
- Attractive Indo GB series to be traded today : FR0063, FR0046, FR0081, FR0091, FR0096.

## Exhibit 4. 10 Year Indo GB Fair Yield



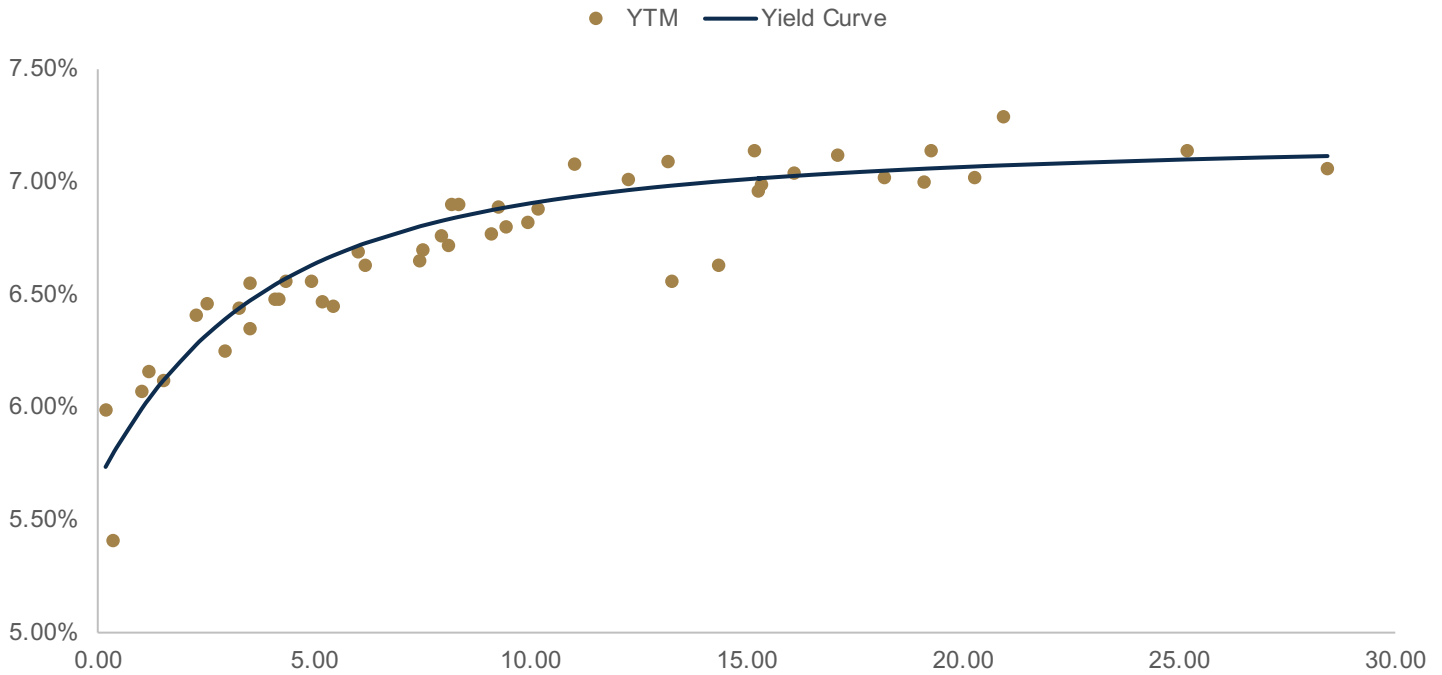
Source : Bloomberg, MNCS Calculation

## Exhibit 5. Indo GB Series Valuation

Series	Coupon	Maturity	TTM	Last Price	YTM	Yield Curve	Fair Price	Notes
FR63	5.625	15-May-23	0.18	99.92	5.99%	5.74%	99.96	Discounted
FR46	9.500	15-Jul-23	0.35	101.25	5.41%	5.79%	101.25	Premium
FR39	11.750	15-Aug-23	0.43	104.70	0.09%	5.82%	102.51	Premium
FR70	8.375	15-Mar-24	1.02	102.20	6.07%	5.99%	102.31	Fair
FR77	8.125	15-May-24	1.18	102.17	6.16%	6.04%	102.33	Discounted
FR44	10.000	15-Sep-24	1.52	105.48	6.12%	6.12%	105.53	Fair
FR81	6.500	15-Jun-25	2.27	100.18	6.41%	6.28%	100.45	Discounted
FR40	11.000	15-Sep-25	2.52	110.34	6.46%	6.32%	110.72	Discounted
FR84	7.250	15-Feb-26	2.94	102.64	6.25%	6.39%	102.26	Premium
FR86	5.500	15-Jun-26	3.27	97.41	6.44%	6.44%	97.26	Fair
FR37	12.000	15-Sep-26	3.52	117.25	6.35%	6.47%	117.12	Premium
FR56	8.375	15-Sep-26	3.52	105.64	6.55%	6.47%	105.89	Fair
FR90	5.125	15-Apr-27	4.10	95.21	6.48%	6.54%	94.96	Fair
FR59	7.000	15-May-27	4.18	101.85	6.48%	6.55%	101.60	Fair
FR42	10.250	15-Jul-27	4.35	113.72	6.56%	6.57%	113.71	Fair
FR47	10.000	15-Feb-28	4.94	114.00	6.56%	6.63%	113.99	Fair
FR64	6.125	15-May-28	5.18	98.51	6.47%	6.65%	97.71	Premium
FR95	6.375	15-Aug-28	5.43	99.64	6.45%	6.67%	98.66	Premium
FR71	9.000	15-Mar-29	6.01	111.25	6.69%	6.72%	111.15	Fair
FR78	8.250	15-May-29	6.18	108.06	6.63%	6.73%	107.58	Premium
FR52	10.500	15-Aug-30	7.43	122.00	6.65%	6.80%	121.30	Premium
FR82	7.000	15-Sep-30	7.52	101.78	6.70%	6.81%	101.12	Premium
FR87	6.500	15-Feb-31	7.94	98.43	6.76%	6.83%	98.02	Fair
FR85	7.750	15-Apr-31	8.10	106.15	6.72%	6.83%	105.61	Premium
FR73	8.750	15-May-31	8.18	111.16	6.90%	6.84%	111.82	Fair
FR54	9.500	15-Jul-31	8.35	116.00	6.90%	6.84%	116.66	Fair
FR91	6.375	15-Apr-32	9.10	97.32	6.77%	6.87%	96.65	Premium
FR58	8.250	15-Jun-32	9.27	109.16	6.89%	6.88%	109.25	Fair
FR74	7.500	15-Aug-32	9.43	104.78	6.80%	6.89%	104.20	Premium
<b>FR96</b>	<b>7.000</b>	<b>15-Feb-33</b>	9.94	101.27	6.82%	6.90%	100.68	Premium
FR65	6.625	15-May-33	10.18	98.12	6.88%	6.91%	97.92	Fair
FR68	8.375	15-Mar-34	11.01	109.79	7.08%	6.93%	110.97	Discounted
FR80	7.500	15-Jun-35	12.27	103.94	7.01%	6.96%	104.36	Fair
FR72	8.250	15-May-36	13.18	109.85	7.09%	6.98%	110.80	Discounted
FR88	6.250	15-Jun-36	13.27	97.00	6.56%	6.98%	93.71	Premium
FR45	9.750	15-May-37	14.18	118.25	7.59%	7.00%	124.47	Discounted
FR93	6.375	15-Jul-37	14.35	97.50	6.63%	7.00%	94.37	Premium
FR75	7.500	15-May-38	15.18	103.27	7.14%	7.01%	104.48	Discounted
FR50	10.500	15-Jul-38	15.35	132.75	6.99%	7.02%	132.40	Fair
FR98	7.125	15-Jun-38	15.27	101.54	6.96%	7.02%	101.00	Fair
FR79	8.375	15-Apr-39	16.10	112.68	7.04%	7.03%	112.87	Fair
FR83	7.500	15-Apr-40	17.10	103.73	7.12%	7.04%	104.54	Fair
FR57	9.500	15-May-41	18.18	125.00	7.02%	7.05%	124.87	Fair
FR62	6.375	15-Apr-42	19.10	93.50	7.00%	7.06%	92.88	Fair
FR92	7.125	15-Jun-42	19.27	99.81	7.14%	7.06%	100.66	Fair
FR97	7.125	15-Jun-43	20.27	101.12	7.02%	7.07%	100.59	Fair
FR67	8.750	15-Feb-44	20.94	115.00	7.29%	7.07%	118.16	Discounted
FR76	7.375	15-May-48	25.18	102.40	7.14%	7.10%	103.19	Fair
FR89	6.875	15-Aug-51	28.43	97.76	7.06%	7.11%	97.08	Fair

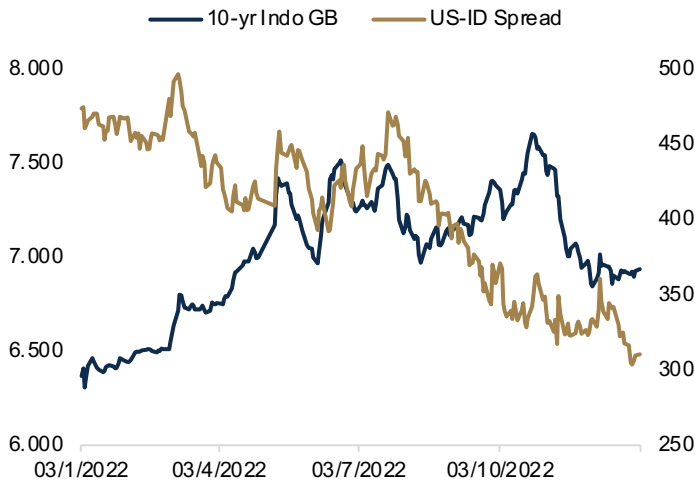
Source : Bloomberg, MNCS Calculation as of March 10, 2023

**Exhibit 6. Indo GB Yield Curve**



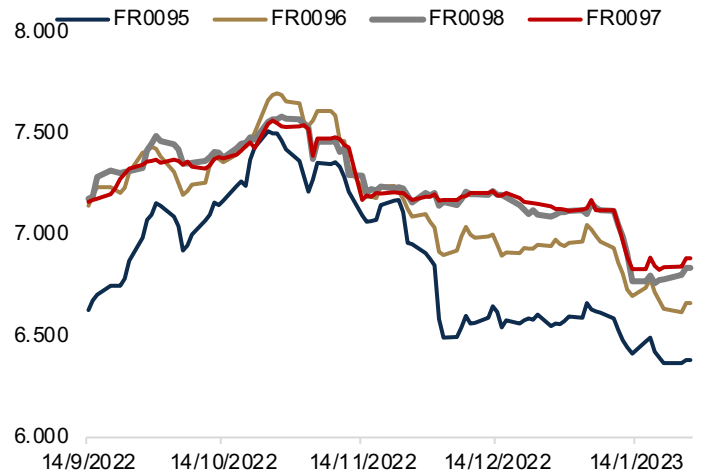
Source : Bloomberg, MNCS Calculation as of March 10, 2023

**Exhibit 7. 10 Year U.S. Treasury & Indo GB Spread**



Source : Bloomberg, MNCS Calculation

**Exhibit 8. Indo GB Benchmark Series Yield (%)**



Source : Bloomberg

**Exhibit 9. Indo GB Ownership by Type of Investors (%)**

Bond Holder	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
Bank	35.82	35.03	32.81	33.85	29.55	33.54	32.08	31.42	32.09	35.02	31.97	33.50
Central Bank (Nett)	14.12	15.15	17.77	16.56	20.89	17.18	18.66	19.38	18.56	15.49	19.21	17.37
Mutual Fund	3.14	3.19	3.18	3.13	3.16	3.14	3.14	3.06	2.98	2.88	2.75	2.72
Insurance & Pension Fund	14.77	15.22	15.33	15.68	15.94	16.32	16.29	16.54	16.81	16.87	16.44	16.27
Foreign	18.82	17.57	17.03	16.56	16.09	15.36	15.24	14.31	13.90	14.05	14.36	15.01
Individuals	5.32	5.61	5.63	5.80	5.81	5.89	5.86	6.37	6.64	6.66	6.48	6.39
Others	8.01	8.22	8.26	8.42	8.56	8.55	8.73	8.92	9.03	9.03	8.79	8.75

Source : DJPPR as of January 24, 2022

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**OVERWEIGHT:** Stock's total return is estimated to be above the average total return of our industry coverage universe over next 6-12 months

**NEUTRAL:** Stock's total return is estimated to be in line with the average total return of our industry coverage universe over next 6-12 months

**UNDERWEIGHT:** Stock's total return is estimated to be below the average total return of our industry coverage universe over next 6-12 months

## MNC Research Investment Ratings Guidance

**BUY :** Share price may exceed 10% over the next 12 months

**HOLD :** Share price may fall within the range of +/- 10% of the next 12 months

**SELL :** Share price may fall by more than 10% over the next 12 months

**Not Rated :** Stock is not within regular research coverage

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