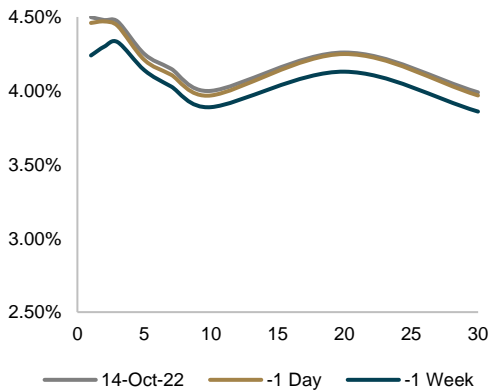


Exhibit 1. U.S. Treasury Yield



Source : U.S Treasury Department

Exhibit 2. Global Gov't Bond Yield

Countries	14-Oct-22	-1 Day	-1 Week
U.S	4.02%	3.95%	3.88%
U.K	4.31%	4.19%	4.24%
Germany	2.34%	2.28%	2.19%
Japan	0.25%	0.25%	0.25%
China	2.71%	2.73%	2.75%
Malaysia	4.44%	4.44%	4.39%
Thailand	3.16%	3.15%	3.02%

Source : Bloomberg

Exhibit 3. Market Indicators

Indicators	Unit	Value
U.S. Treasury	%	4.02
Indo 5-Year CDS	bps	160.61
USD/IDR	points	15,423
BI 7DRR	%	4.25

Source : Bloomberg as of October 14, 2022

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Global Market Update

- The benchmark 10-year UST note yield increased 7 bps to and finally topping 4.00% on Friday (10/14/22).
- On the other hand, the benchmark for short term rate of 2-year maturity rose 2 bps hitting 4.50% at the same time.
- Yield curve inversion narrowed and the spread of 2/10 year benchmark stood at -48 bps (vs -52 bps on the previous day).
- Following the rise in government bond yield, US stock indices plummeted erasing previous gain.
- The DJI dropped 1.34%; S&P 500 declined 2.37%; Nasdaq Composite lost 3.08%.
- Elsewhere, UK's benchmark government bond yield continued to increase. UK Gilt 10-year yield rose to 4.31% as BoE emergency bond buying program ended last week.

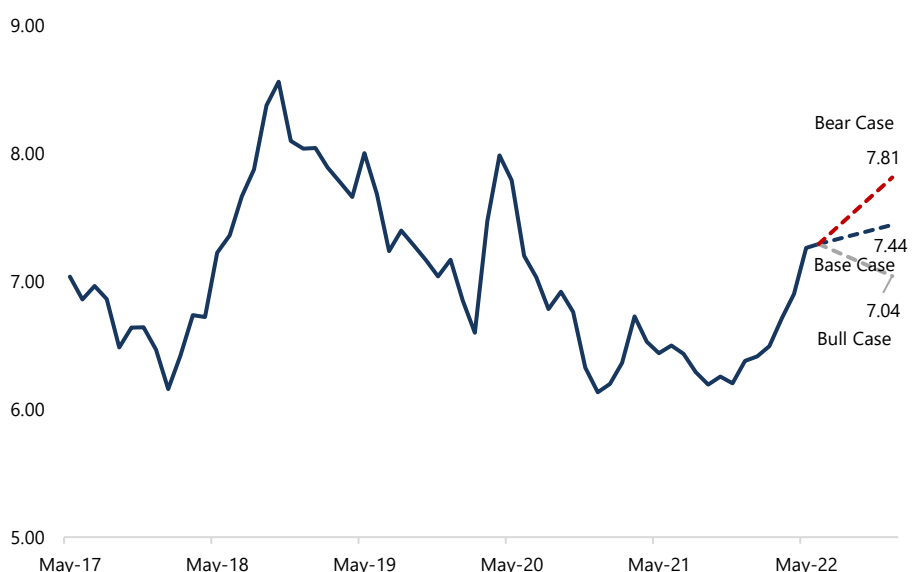
Domestic Market Update

- The benchmark 10-year Indo GB yield (FR0091) rose 2 bps to 7.35% on Friday (10/14/22).
- Indonesia's CDS rose again and domestic currency IDR still depreciating against USD.
- Indonesia's 5-year CDS dropped topping 160 bps again on Friday last week.
- The IDR weakened against USD and was closed at IDR15,423/USD on Friday last week (vs IDR15,362/USD previous day).
- On the data front, international trade projection Sep-22 MNCS, export +31.60% YoY; imports +40.12% YoY; trade balance surplus of USD 4.387 billion.
- Export performance is still supported by persistently high global coal prices, while imports are supported by continued domestic economic recovery.

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 7.25-7.45% for today.
- Attractive Indo GB series to be traded today : FR0070, FR0077, FR0081, FR0095, FR0052, FR0073, FR0054, FR0091, FR0096.

Exhibit 4. 10 Year Indo GB Fair Yield



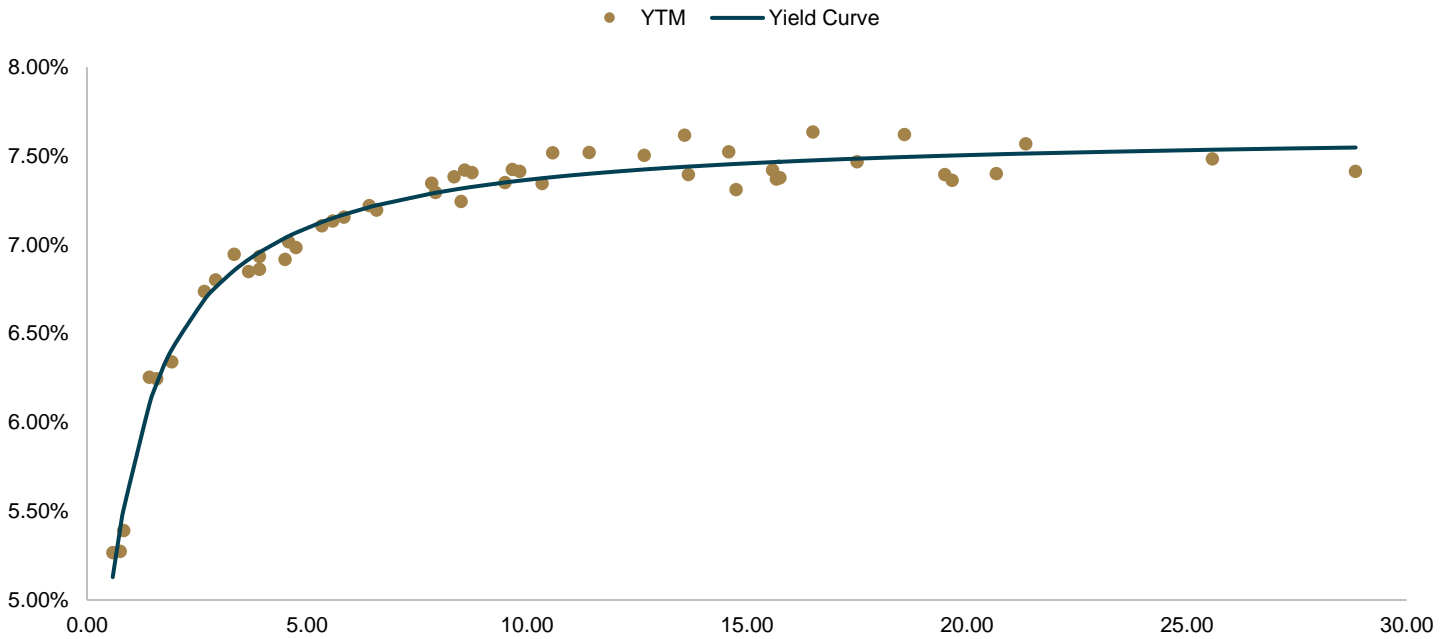
Source : Bloomberg, MNCS Calculation

Exhibit 5. Indo GB Series Valuation

Series	Coupon	Maturity	TTM	Last Price	YTM	Yield Curve	Fair Price	Notes
FR63	5.625	15-May-23	0.58	100.20	5.27%	5.13%	100.28	Discounted
FR46	9.500	15-Jul-23	0.75	103.02	5.27%	5.40%	102.97	Premium
FR39	11.750	15-Aug-23	0.84	105.05	5.39%	5.52%	105.01	Premium
FR70	8.375	15-Mar-24	1.42	102.81	6.25%	6.10%	103.04	Discounted
FR77	8.125	15-May-24	1.58	102.77	6.25%	6.22%	102.83	Fair
FR44	10.000	15-Sep-24	1.92	106.47	6.34%	6.41%	106.38	Premium
FR81	6.500	15-Jun-25	2.67	99.42	6.74%	6.69%	99.53	Discounted
FR40	11.000	15-Sep-25	2.92	110.90	6.80%	6.76%	111.06	Fair
FR84	7.250	15-Feb-26	3.34	100.88	6.95%	6.85%	101.15	Discounted
FR86	5.500	15-Jun-26	3.67	95.87	6.85%	6.92%	95.47	Premium
FR37	12.000	15-Sep-26	3.92	117.34	6.86%	6.96%	117.03	Premium
FR56	8.375	15-Sep-26	3.92	104.85	6.93%	6.96%	104.78	Fair
FR90	5.125	15-Apr-27	4.50	93.18	6.92%	7.04%	92.73	Premium
FR59	7.000	15-May-27	4.58	99.93	7.02%	7.05%	99.81	Fair
FR42	10.250	15-Jul-27	4.75	112.97	6.98%	7.07%	112.64	Premium
FR47	10.000	15-Feb-28	5.34	112.63	7.11%	7.13%	112.55	Fair
FR64	6.125	15-May-28	5.58	95.42	7.13%	7.15%	95.34	Fair
FR95	6.375	15-Aug-28	5.84	96.32	7.16%	7.17%	96.25	Fair
FR71	9.000	15-Mar-29	6.42	108.99	7.22%	7.21%	109.06	Fair
FR78	8.250	15-May-29	6.58	105.44	7.20%	7.22%	105.31	Fair
FR52	10.500	15-Aug-30	7.84	118.50	7.35%	7.29%	118.90	Discounted
FR82	7.000	15-Sep-30	7.92	98.24	7.29%	7.29%	98.26	Fair
FR87	6.500	15-Feb-31	8.34	94.57	7.38%	7.31%	95.00	Discounted
FR85	7.750	15-Apr-31	8.50	103.17	7.24%	7.32%	102.71	Premium
FR73	8.750	15-May-31	8.58	108.31	7.42%	7.32%	108.99	Discounted
FR54	9.500	15-Jul-31	8.75	113.28	7.41%	7.33%	113.85	Discounted
FR91	6.375	15-Apr-32	9.50	93.42	7.35%	7.35%	93.41	Fair
FR58	8.250	15-Jun-32	9.67	105.61	7.42%	7.36%	106.10	Discounted
FR74	7.500	15-Aug-32	9.84	100.59	7.41%	7.36%	100.95	Discounted
FR96	7.000	15-Feb-33	10.34	97.53	7.34%	7.37%	97.31	Fair
FR65	6.625	15-May-33	10.58	93.56	7.52%	7.38%	94.51	Discounted
FR68	8.375	15-Mar-34	11.42	106.47	7.52%	7.40%	107.43	Discounted
FR80	7.500	15-Jun-35	12.67	99.96	7.50%	7.42%	100.61	Discounted
FR72	8.250	15-May-36	13.58	105.29	7.62%	7.44%	106.86	Discounted
FR88	6.250	15-Jun-36	13.67	90.25	7.39%	7.44%	89.89	Fair
FR45	9.750	15-May-37	14.58	119.50	7.52%	7.45%	120.22	Discounted
FR93	6.375	15-Jul-37	14.75	91.63	7.31%	7.45%	90.42	Premium
FR75	7.500	15-May-38	15.58	100.72	7.42%	7.46%	100.31	Fair
FR50	10.500	15-Jul-38	15.75	128.78	7.38%	7.47%	127.80	Premium
FR98	7.125	15-Jun-38	15.67	97.404	7.37%	7.47%	96.87	Premium
FR79	8.375	15-Apr-39	16.50	106.87	7.64%	7.47%	108.46	Discounted
FR83	7.500	15-Apr-40	17.50	100.32	7.47%	7.48%	100.15	Fair
FR57	9.500	15-May-41	18.58	118.50	7.62%	7.49%	119.94	Discounted
FR62	6.375	15-Apr-42	19.50	89.55	7.40%	7.50%	88.57	Premium
FR92	7.125	15-Jun-42	19.67	97.53	7.36%	7.50%	96.15	Premium
FR97	7.125	15-Jun-43	20.67	97.45	7.40%	7.51%	95.99	Premium
FR67	8.750	15-Feb-44	21.34	112.40	7.57%	7.51%	113.04	Discounted
FR76	7.375	15-May-48	25.58	98.76	7.48%	7.53%	98.19	Premium
FR89	6.875	15-Aug-51	28.84	93.63	7.41%	7.55%	92.14	Premium

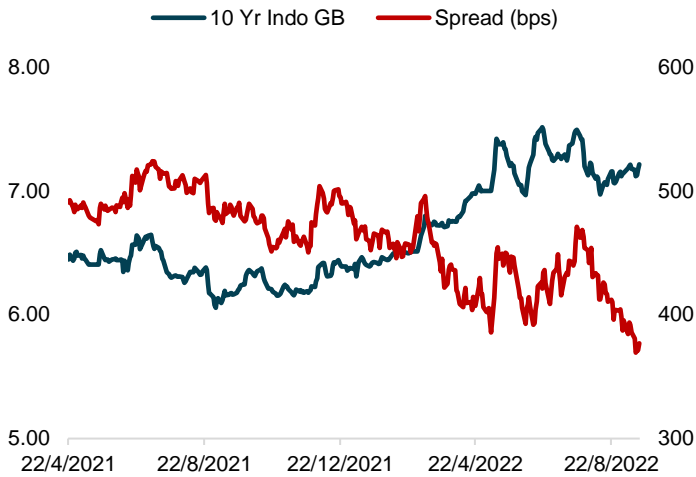
Source : Bloomberg, MNCS Calculation as of October 14, 2022

Exhibit 6. Indo GB Yield Curve



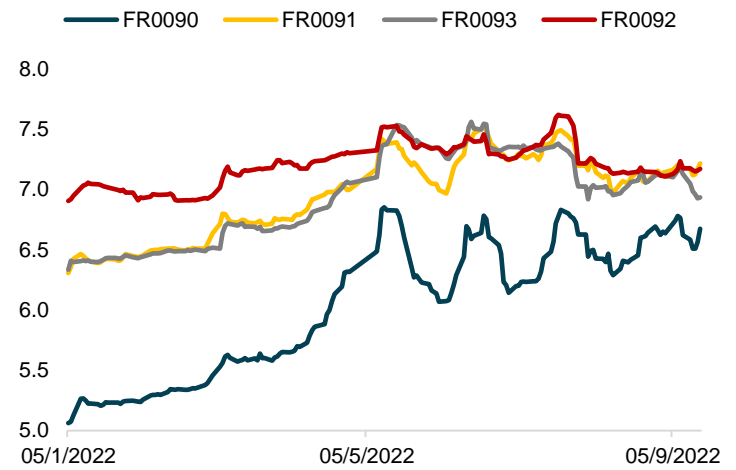
Source : Bloomberg, MNCS Calculation as of October 14, 2022

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	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22
Bank	35.63	34.01	35.47	35.82	35.03	32.81	33.85	29.55	33.54	32.08	31.42	31.93
Central Bank (Nett)	13.10	17.13	15.20	14.12	15.15	17.77	16.56	20.89	17.18	18.66	19.38	18.79
Mutual Fund	3.42	3.38	3.20	3.14	3.19	3.18	3.13	3.16	3.14	3.14	3.06	3.04
Insurance & Pension Fund	14.44	14.00	14.52	14.77	15.22	15.33	15.68	15.94	16.32	16.29	16.54	16.63
Foreign	20.55	19.05	18.97	18.82	17.57	17.03	16.56	16.09	15.36	15.24	14.31	14.19
Individuals	5.08	4.73	4.83	5.32	5.61	5.63	5.80	5.81	5.89	5.86	6.37	6.39
Others	7.78	7.70	7.82	8.01	8.22	8.26	8.42	8.56	8.55	8.73	8.92	9.01

Source : DJPPR as of October, 10 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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