

JSE

INTEREST RATE DERIVATIVES

MONTHLY VIEW

(including stats from February 23 expiry)

February 2023

Compiled by the IRC team

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HIGHLIGHTS

After the February 2023 expiry, contract volumes year-to-date (ytd) have been higher than the equivalent period last year:

- The total IRD contracts traded ytd was 3.4m, an increase of 16% over same period last year. The IRD Open interest at 1.4m contracts, was up 16% compared to the same period previous year.
- Bond futures at 3.2m contracts was up 17% with Open interest at 1.3m contracts, up 20%
- The Bond Options volumes were lower at 10% down while Open Interest was 12% down compared to previous year
- The Govi and Bond Index Futures value traded was at R24.5bln, down 5% over previous year, while Open Interest was 7% lower than the same point previous year

Listed IRD CONTRACTS TRADED							
YTD - Contracts	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
YTD 2022	2,805,834	126,367	2,180	1,564	-	-	2,935,945
YTD 2023	3,273,833	113,321	1,938	1,791	-	-	3,390,883
Growth	16.7%	-10.3%	-11.1%	14.5%			15.5%

IRD OPEN INTEREST CONTRACTS							
Period	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2022	1,088,101	141,814	989	718	215	-	1,231,837
2023	1,306,934	124,777	834	755	415	-	1,433,715
Growth	20.1%	-12.0%	-15.7%	5.2%	93.0%		16.4%

The 2022 full-year stats revisited (previous year)

(Details provided in the December 2022 newsletter)

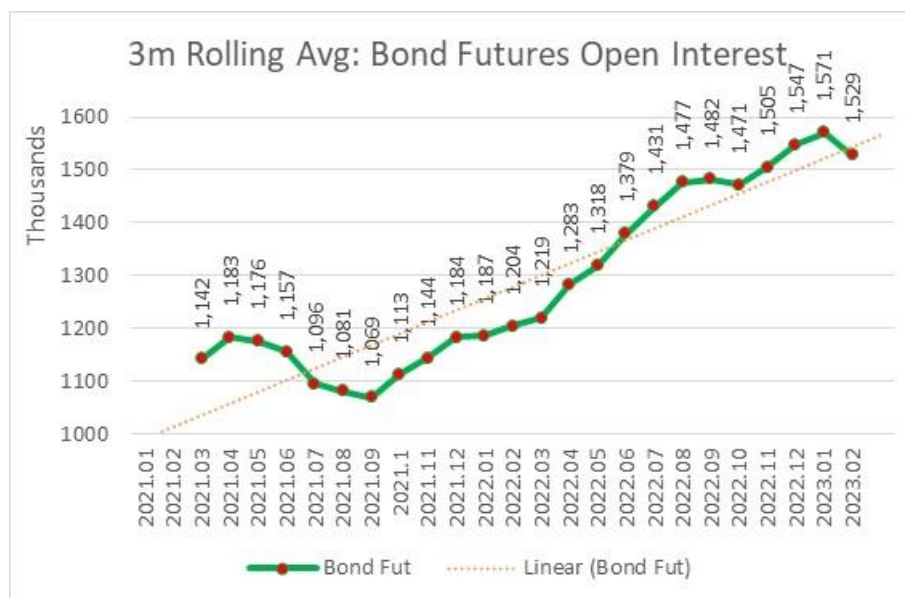
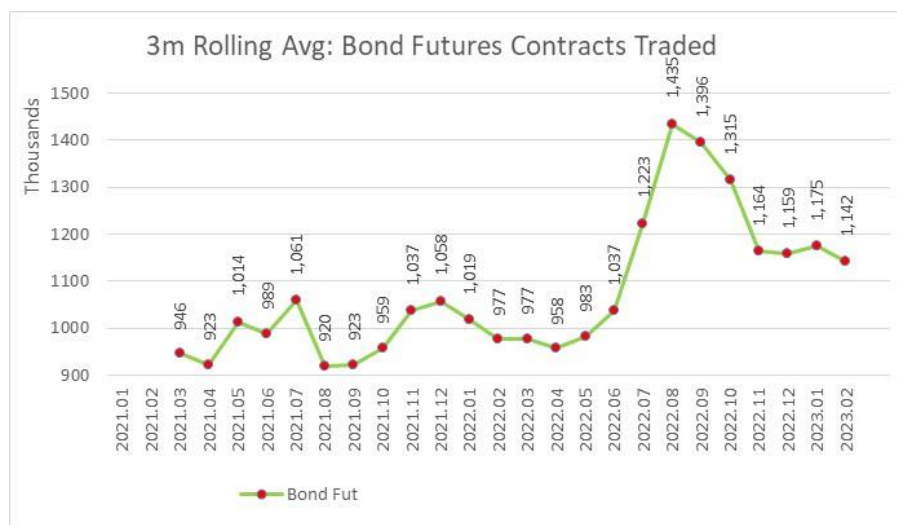
Listed IRD CONTRACTS TRADED							
YTD - Contracts	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2021	11,749,191	604,424	8,004	9,271	261,815	51	12,632,756
2022	13,705,750	655,620	9,017	7,492	1,456	-	14,379,335
Growth	16.7%	8.5%	12.7%	-19.2%	-99.4%	0.0%	13.8%

IRD OPEN INTEREST CONTRACTS							
Period	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2021	1,069,111	126,584	987	721	215	-	1,197,618
2022	1,441,149	131,744	848	798	415	-	1,574,954
Growth	34.8%	4.1%	-14.1%	10.7%	93.0%	-	31.5%

CURRENT TRENDS IN BOND FUTURES ACTIVITY

Bond Futures tend to be traded as term instruments which results in large volumes trading around expiry dates and lower volumes in other periods. This manifests as a “see-saw” activity in the monthly volumes. Rolling 3m Average activity allows us to observe smoother trends.

Bond Futures Trends: Contracts Traded and Open Interest



Bond futures trends (based on 3m rolling avg contracts traded) currently flattening out but at higher levels than pre-2022. Open Interest flattening out after a long upward trend since Sep-21.

MONTHLY SNAPSHOT

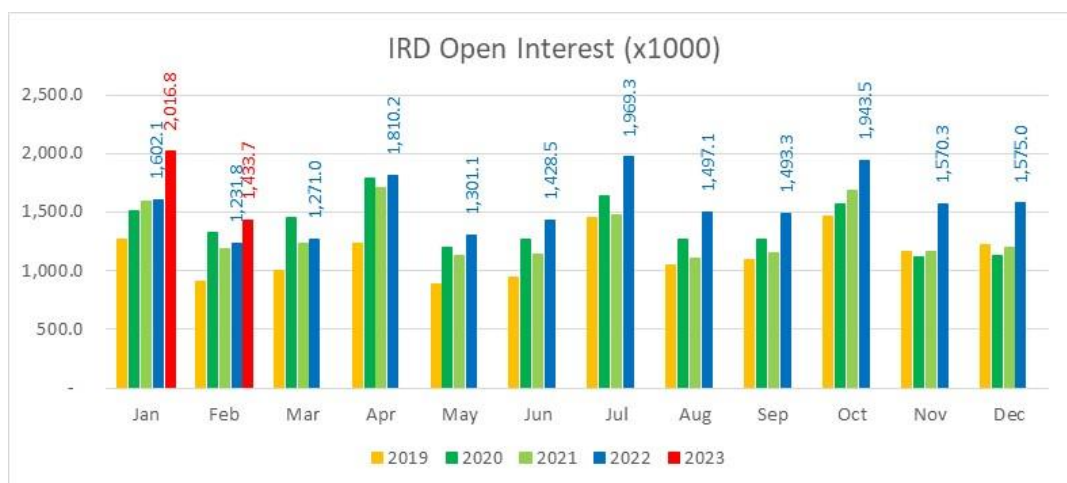
CONTRACTS TRADED

Monthly Snapshot Contracts Traded								
	Bond Fut	Calls	Puts	Govi Fut	Index Fut	Jibar Fut	Swap Fut	Total
2021.01	2,064,147	21,004	17,677	1,941	2,888	40,001	-	2,147,658
2021.02	647,370	24,856	21,684	101	582	40,470	-	735,063
2021.03	127,022	21,895	15,812	29	60	400	-	165,218
2021.04	1,995,098	13,289	27,516	1,517	1,720	-	-	2,039,140
2021.05	920,233	13,899	108,021	87	753	-	-	1,042,993
2021.06	50,847	12,776	24,800	17	161	-	-	88,601
2021.07	2,210,468	7,750	9,100	1,996	1,298	-	-	2,230,612
2021.08	497,888	14,332	25,619	30	138	69	-	538,076
2021.09	61,417	18,400	22,650	11	31	130,000	-	232,509
2021.10	2,316,337	34,747	57,736	2,056	1,386	800	-	2,413,062
2021.11	734,640	25,520	63,241	213	254	50,075	-	873,943
2021.12	123,724	2,100	-	6	-	-	51	125,881
2022.01	2,198,294	8,260	38,140	2,132	1,356	-	-	2,248,182
2022.02	607,540	39,077	40,890	48	208	-	-	687,763
2022.03	126,385	29,435	10,026	3	5	222	-	166,076
2022.04	2,139,536	10,546	29,023	2,264	1,262	-	-	2,182,631
2022.05	683,749	13,140	8,420	10	332	100	-	705,751
2022.06	286,875	26,900	32,583	6	13	-	-	346,377
2022.07	2,699,371	36,982	18,065	2,318	1,926	100	-	2,758,762
2022.08	1,319,225	59,807	61,514	19	43	-	-	1,440,608
2022.09	168,100	21,851	14,895	54	281	-	-	205,181
2022.10	2,457,306	5,500	19,022	2,110	1,639	-	-	2,485,577
2022.11	867,642	55,433	30,891	38	354	415	-	954,773
2022.12	151,727	45,220	-	15	73	619	-	197,654
2023.01	2,506,348	32,900	19,235	1,825	1,601	-	-	2,561,909
2023.02	767,485	34,206	26,980	113	190	-	-	828,974



OPEN INTEREST

Monthly Snapshot Open Interest								
	Bond Fut	Calls	Puts	Govi Fut	Index Fut	Jibar Fut	Swap Fut	Total
2021.01	1,368,771	54,416	117,177	977	1,365	50,001	51	1,592,758
2021.02	1,012,584	45,247	96,085	975	1,212	30,471	51	1,186,625
2021.03	1,043,823	52,181	103,536	1,001	1,196	30,471	51	1,232,259
2021.04	1,493,709	61,680	114,125	1,003	1,270	30,471	51	1,702,309
2021.05	989,485	31,963	76,593	987	726	30,471	51	1,130,276
2021.06	986,432	38,363	82,093	981	581	30,471	51	1,138,972
2021.07	1,311,466	41,313	91,193	997	631	30,471	51	1,476,122
2021.08	946,280	36,714	85,050	986	594	30,540	51	1,100,215
2021.09	948,396	48,514	98,050	993	625	50,540	51	1,147,169
2021.10	1,445,779	64,705	117,651	1,098	829	50,140	51	1,680,253
2021.11	1,036,547	56,870	67,614	983	721	215	51	1,163,001
2021.12	1,069,111	58,970	67,614	987	721	215	-	1,197,618
2022.01	1,454,861	66,850	78,374	1,023	805	215	-	1,602,128
2022.02	1,088,101	66,830	74,984	989	718	215	-	1,231,837
2022.03	1,114,292	76,765	78,019	990	720	215	-	1,271,001
2022.04	1,645,940	76,742	85,496	1,115	669	215	-	1,810,177
2022.05	1,195,046	50,178	53,524	1,111	909	315	-	1,301,083
2022.06	1,297,146	66,578	62,424	1,111	913	315	-	1,428,487
2022.07	1,800,421	94,508	72,185	875	856	415	-	1,969,260
2022.08	1,332,947	84,705	77,297	870	839	415	-	1,497,073
2022.09	1,313,187	93,252	84,742	874	825	415	-	1,493,295
2022.10	1,767,793	89,752	83,742	866	931	415	-	1,943,499
2022.11	1,432,909	70,250	65,114	835	786	415	-	1,570,309
2022.12	1,441,149	66,630	65,114	848	798	415	-	1,574,954
2023.01	1,838,132	93,530	82,849	937	923	415	-	2,016,786
2023.02	1,306,934	58,044	66,733	834	755	415	-	1,433,715



YEAR-TO-DATE STATISTICS

IRD CONTRACTS TRADED

Listed IRD CONTRACTS TRADED							
YTD - Contracts	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
YTD 2022	2,805,834	126,367	2,180	1,564	-	-	2,935,945
YTD 2023	3,273,833	113,321	1,938	1,791	-	-	3,390,883
Growth	16.7%	-10.3%	-11.1%	14.5%			15.5%

IRD VALUE TRADED

IRD VALUE TRADED YTD (Rm)							
Period	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2022	261,974	247	17,937	7,990	-	-	288,147
2023	288,842	182	17,012	7,524	-	-	313,560
Growth	10.3%	-26.1%	-5.2%	-5.8%			8.8%

IRD TRADED NOMINAL EXPOSURE*

LISTED IRD UNDERLYING NOMINAL EXPOSURE RbIn							
YTD - Nominal	Bond Fut	Bond Opt	Govi Fut ValTr	Index Fut ValTr	JIBAR Fut	SWAP Fut	Total
Contract size	100k	100k	1	1	100k	100k	
YTD 2022	280.6	12.6	17.9	8.0	-	-	319.1
YTD 2023	327.4	11.3	17.0	7.5	-	-	363.3
Growth	16.7%	-10.3%	-5.2%	-5.8%			13.8%
% Split	90.1%	3.1%	4.7%	2.1%	0.0%	0.0%	100.0%

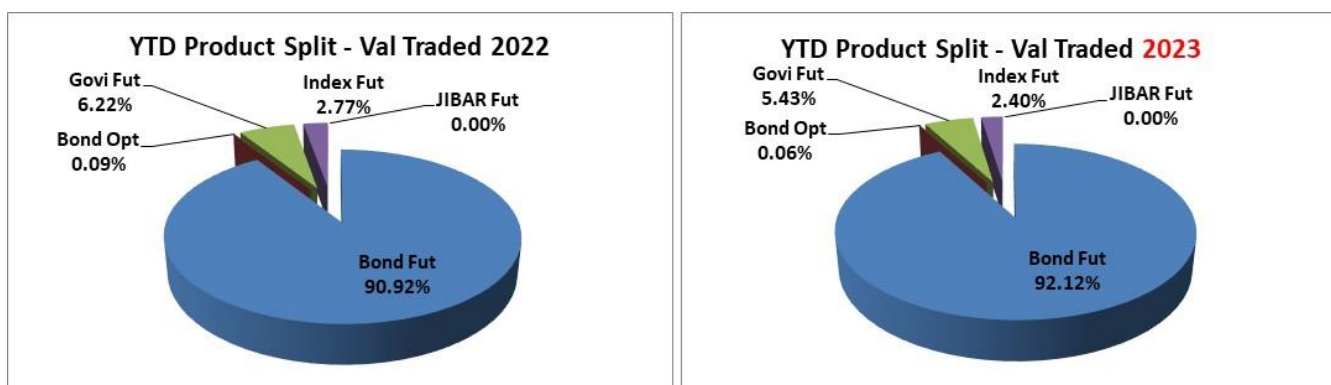
*Effective nominal exposure (and value traded for indices) is used as comparable metric for activity across markets. Underlying nominals traded are represented by the contract size multiplied by the contracts traded, except for the Govi and Index futures which are represented by the actual value traded.

IRD OPEN INTEREST

IRD OPEN INTEREST CONTRACTS							
Period	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2022	1,088,101	141,814	989	718	215	-	1,231,837
2023	1,306,934	124,777	834	755	415	-	1,433,715
Growth	20.1%	-12.0%	-15.7%	5.2%	93.0%		16.4%

VALUE TRADED PRODUCT SPLIT

The **GOVI** and **Index Futures** represent **7.8%** of all **IRD** value traded **YTD** but only a small percentage (<1%) of all contracts traded due to the high nominal underlying per contract.



CLOSE OUT VOLUME OVER TWO-MONTH PERIOD

Roll activity typically starts in the month prior to close-out. Thus, close-out activity is represented by consolidating **volumes for the close-out month and the prior month as a 2-month period**.

ALL IRD CONTRACTS (in 2-mth periods) (millions of contracts)									
Close-Out (2-mth)	2017	2018	2019	2020	2021	2022	2023	% Chg 22/21	% Chg 23/22
Close-Out 1 (Feb)	2.455	3.292	2.609	3.097	2.883	2.936	3.391	1.8%	15.5%
Close-Out 2 (May)	2.491	2.973	2.518	3.219	3.082	2.888	-	-6.3%	
Close-Out 3 (Aug)	3.051	2.532	3.009	3.040	2.769	4.199	-	51.7%	
Close-Out 4 (Nov)	3.320	2.749	2.787	3.082	3.287	3.440	-	4.7%	

The February 2023 close-out period saw a total of 3.39m contracts traded, up 15.5% over same period last year and a record 2-month volume for a Feb close-out..

BOND FUTURES

BOND FUTURES: CONTRACTS TRADED

The Futures contracts traded ytd were up 16.7% on same period last year.



Bond Futures Contracts Traded										
Date	2016	2017	2018	2019	2020	2021	2022	2023	Chg 22/21	Chg 23/22
Jan	826,485	1,963,456	2,512,043	1,872,040	1,808,945	2,064,147	2,198,294	2,506,348	6.5%	14.0%
Feb	883,377	493,725	622,760	654,730	994,022	647,370	607,540	767,485	-6.2%	26.3%
Mar	79,520	148,066	184,080	71,194	337,360	127,022	126,385		-0.5%	
Apr	1,490,182	1,168,792	2,071,717	1,778,197	1,984,879	1,995,098	2,139,536		7.2%	
May	854,135	1,322,123	868,973	434,577	1,152,932	920,233	683,749		-25.7%	
Jun	134,452	177,529	241,609	121,845	187,670	50,847	286,875		464.2%	
Jul	1,542,365	1,475,383	1,770,507	2,232,039	2,022,009	2,210,468	2,699,371		22.1%	
Aug	691,788	1,497,690	706,275	550,331	820,119	497,888	1,319,225		165.0%	
Sep	207,021	235,816	53,904	85,331	59,877	61,417	168,100		173.7%	
Oct	1,903,245	1,947,995	1,987,598	1,970,014	1,707,398	2,316,337	2,457,306		6.1%	
Nov	477,584	1,304,500	599,247	610,292	1,210,516	734,640	867,642		18.1%	
Dec	77,224	180,041	69,157	57,887	64,811	123,724	151,727		22.6%	
TOTAL	9,167,378	11,915,116	11,687,870	10,438,477	12,350,538	11,749,191	13,705,750	3,273,833	16.7%	16.7%
%Chg		30.0%	-1.9%	-10.7%	18.3%	-4.9%	16.7%			



BOND FUTURES: VALUE TRADED

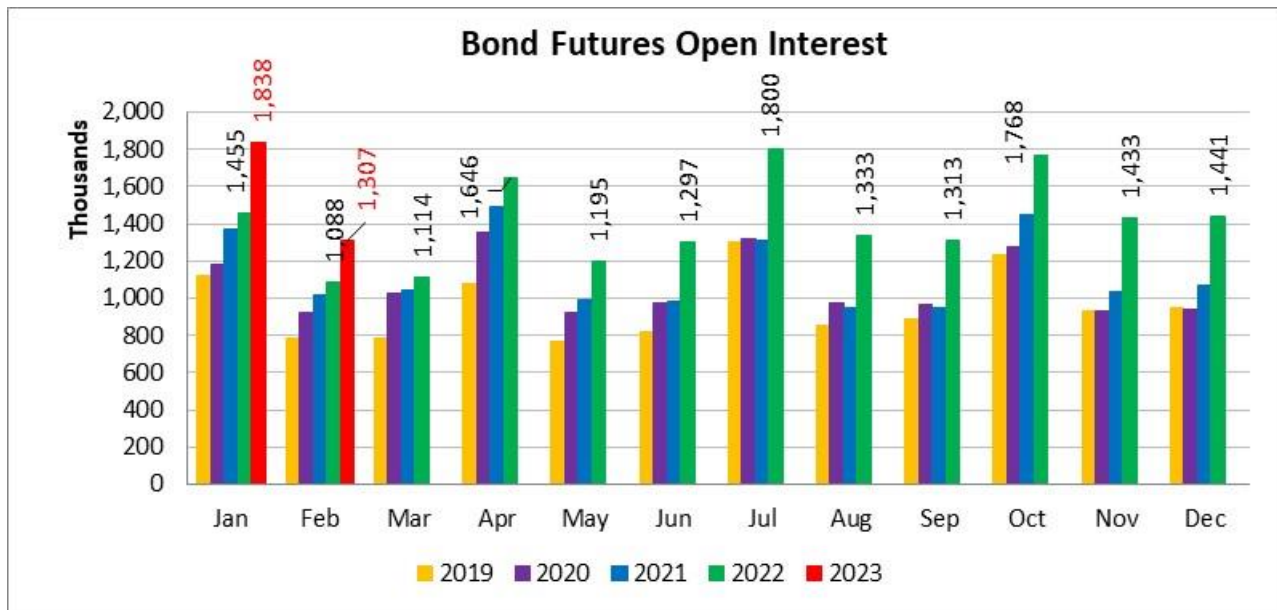
The bond futures value traded year-to-date is 10.3% UP compared to same period last year.



Bond Futures Value Traded Rm										
Date	2016	2017	2018	2019	2020	2021	2022	2023	Chg 22/21	Chg 23/22
Jan	R 93,017	R 207,419	R 253,621	R 180,384	R 176,702	R 194,789	R 204,686	R 221,224	5.1%	8.1%
Feb	R 83,446	R 54,107	R 63,521	R 65,075	R 97,898	R 62,982	R 57,288	R 67,617	-9.0%	18.0%
Mar	R 8,122	R 15,689	R 18,820	R 7,378	R 29,570	R 12,063	R 11,528		-4.4%	
Apr	R 159,522	R 128,361	R 212,944	R 177,545	R 174,397	R 184,453	R 197,483		7.1%	
May	R 87,612	R 131,736	R 91,403	R 44,429	R 106,329	R 85,790	R 61,213		-28.6%	
Jun	R 13,129	R 19,049	R 22,502	R 11,983	R 17,525	R 5,349	R 24,236		353.1%	
Jul	R 166,159	R 151,742	R 170,320	R 225,830	R 185,667	R 207,191	R 225,996		9.1%	
Aug	R 75,809	R 152,914	R 68,472	R 53,410	R 73,391	R 47,531	R 113,556		138.9%	
Sep	R 20,266	R 24,072	R 5,123	R 8,239	R 5,882	R 6,139	R 14,741		140.1%	
Oct	R 210,332	R 191,314	R 185,855	R 194,759	R 156,245	R 212,448	R 210,025		-1.1%	
Nov	R 55,648	R 126,095	R 54,306	R 59,502	R 109,123	R 67,490	R 74,688		10.7%	
Dec	R 7,458	R 17,391	R 6,458	R 5,516	R 6,269	R 11,623	R 12,765		9.8%	
TOTAL	980,519	1,219,888	1,153,345	1,034,049	1,138,999	1,097,847	1,208,205	288,842	10.1%	10.3%
%Chg		24.4%	-5.5%	-10.3%	10.1%	-3.6%	10.1%			

BOND FUTURES: OPEN INTEREST

Bond Futures Open interest at month end was 1.3m contracts, up 20% over equivalent period last year.



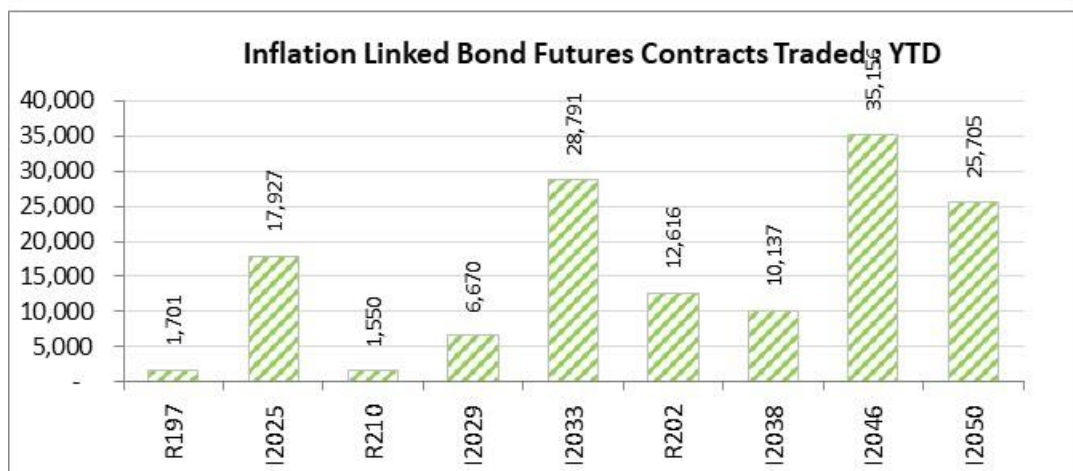
Bond Futures Open Interest										
Date	2016	2017	2018	2019	2020	2021	2022	2023	Chg 22/21	Chg 23/22
Jan	713,913	1,137,425	1,372,543	1,118,795	1,183,158	1,368,771	1,454,861	1,838,132	6.3%	26.3%
Feb	633,062	770,321	1,037,493	784,852	921,269	1,012,584	1,088,101	1,306,934	7.5%	20.1%
Mar	650,335	801,800	1,052,470	787,390	1,027,896	1,043,823	1,114,292		6.8%	
Apr	890,406	1,037,427	1,126,181	1,073,638	1,349,483	1,493,709	1,645,940		10.2%	
May	752,370	794,207	777,714	769,139	923,863	989,485	1,195,046		20.8%	
Jun	753,049	868,162	870,652	817,539	971,675	986,432	1,297,146		31.5%	
Jul	996,943	1,139,985	1,222,141	1,302,006	1,321,763	1,311,466	1,800,421		37.3%	
Aug	655,211	977,327	798,912	849,438	973,254	946,280	1,332,947		40.9%	
Sep	657,642	981,713	809,221	883,920	969,022	948,396	1,313,187		38.5%	
Oct	999,507	1,383,649	1,201,141	1,231,132	1,273,672	1,445,779	1,767,793		22.3%	
Nov	793,813	1,020,399	826,316	927,675	931,839	1,036,547	1,432,909		38.2%	
Dec	798,552	1,016,463	827,458	944,806	936,762	1,069,111	1,441,149		34.8%	
%Chg		27.3%	-18.6%	14.2%	-0.9%	14.1%	34.8%			20.1%
Max OI	999,507	1,383,649	1,372,543	1,302,006	1,349,483	1,493,709	1,800,421	1,838,132		

SINGLE BOND FUTURES ACTIVITY

SINGLE BOND FUTURES: CONTRACTS TRADED PER INSTRUMENT

The most actively traded bond future YTD is the R2048 with a total of R62bIn notional underlying.

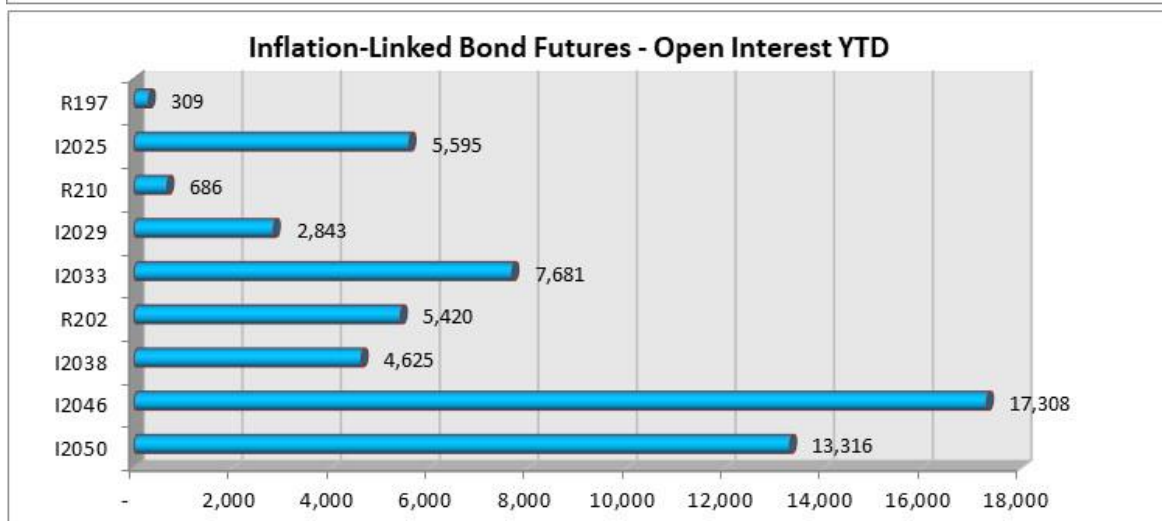
Total Contracts Traded ytd			
	Nominal Bond	Inflation-Linkers	Total
Contracts	3,133,580	140,253	3,273,833
Nominal Value Rm	313,358	14,025	327,383
% Split	95.7%	4.3%	100.0%



SINGLE BOND FUTURES: OPEN INTEREST PER INSTRUMENT

Post Feb expiry, there is total options open interest on R130bln underlying notional. The largest open position is in the R2048 at R25bln nominal and the R2032, R2035 and R2040 are all above R15bln open underlying notional.

Open Interest Table: YTD			
	Nominal Bond	Inflation-Linkers	Total
Contracts	1,249,151	57,783	1,306,934
Nominal Value Rm	124,915	5,778	130,693
% Split	95.6%	4.4%	100.0%



OPTIONS ON BOND FUTURES

OPTIONS: TOTAL CONTRACTS TRADED

A quieter February resulted in the Bond Options contracts traded ytd down 10.3% over the same period last year.

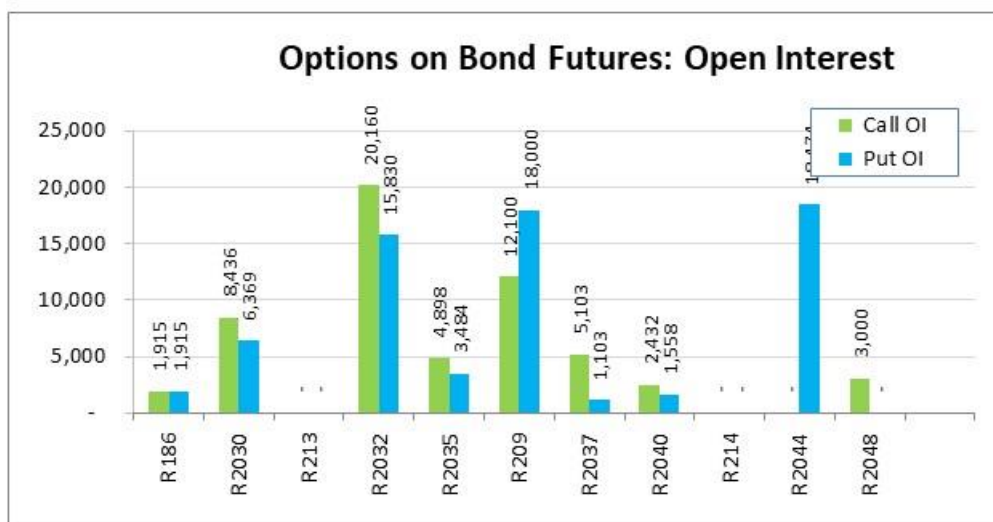
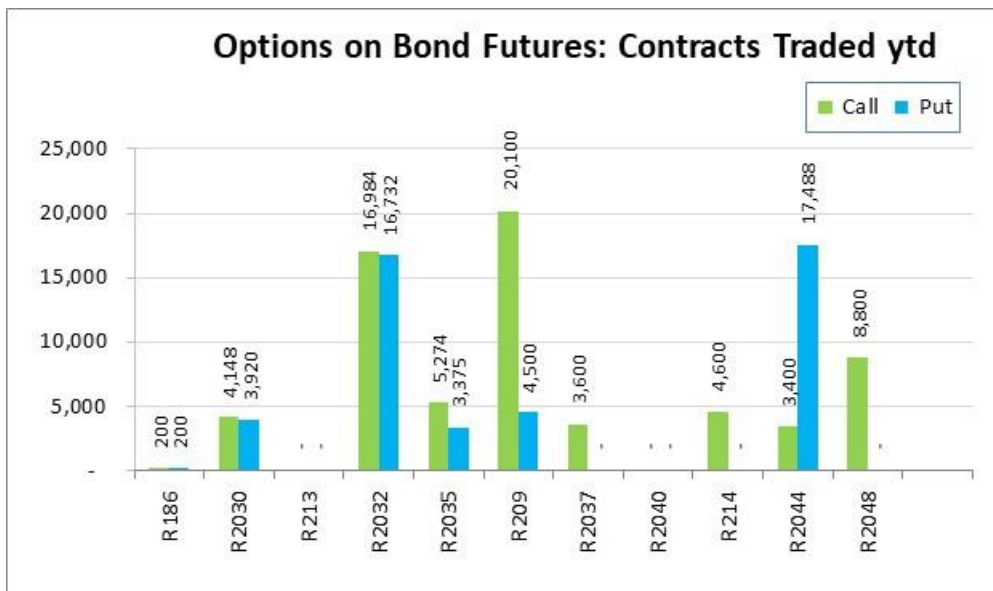


Options on Bond Futures Contracts Traded										
Date	2016	2017	2018	2019	2020	2021	2022	2023	Chg 22/21	Chg 23/22
Jan	-	14,483	60,405	19,110	77,201	38,681	46,400	52,135	20.0%	12.4%
Feb	17,536	11,415	54,977	59,033	210,210	46,540	79,967	61,186	71.8%	-23.5%
Mar	8,812	25,538	28,832	95,276	36,940	37,707	39,461		4.7%	
Apr	22,435	5,400	5,558	143,016	17,731	40,805	39,569		-3.0%	
May	29,048	8,862	20,150	157,005	56,719	121,920	21,560		-82.3%	
Jun	5,775	23,320	34,432	26,470	53,416	37,576	59,483		58.3%	
Jul	18,285	8,019	28,655	88,896	30,101	16,850	55,047		226.7%	
Aug	54,921	63,882	17,260	131,864	61,600	39,951	121,321		203.7%	
Sep	36,208	22,555	19,612	7,489	25,183	41,050	36,746		-10.5%	
Oct	12,419	26,394	78,210	58,639	61,600	92,483	24,522		-73.5%	
Nov	50	34,036	63,736	140,504	96,308	88,761	86,324		-2.7%	
Dec	50	63,418	16,886	34,609	76,656	2,100	45,220		2053.3%	
TOTAL	205,539	307,322	428,713	961,911	803,665	604,424	655,620	113,321	8.5%	-10.3%
%Chg		49.5%	39.5%	124.4%	-16.5%	-24.8%	8.5%			

OPTIONS: ACTIVITY PER INSTRUMENT

The current Open Interest is on R12.4 billion notional underlying (124k contracts)

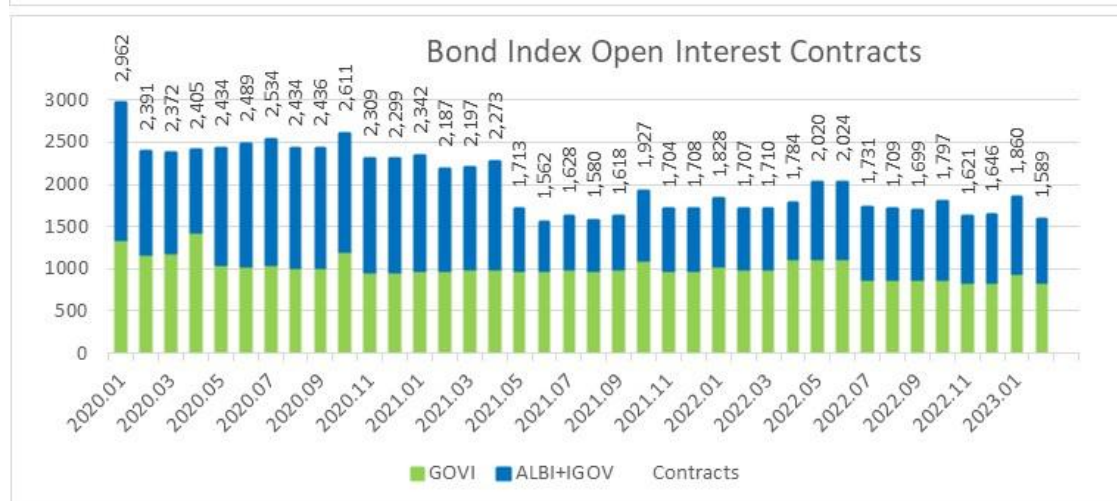
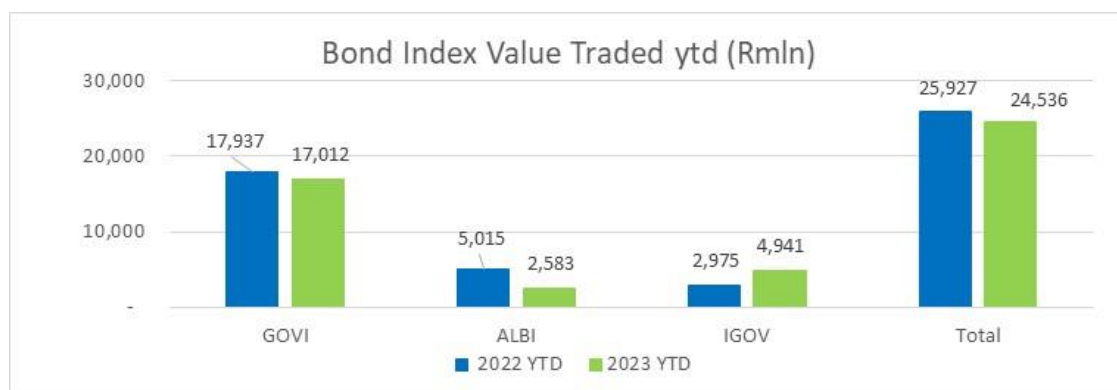
Options on Bond Futures				
	Contracts ytd		Open Interest	
Calls	67,106	59.2%	58,044	46.5%
Puts	46,215	40.8%	66,733	53.5%
Total	113,321	100.0%	124,777	100.0%



BOND INDEX FUTURES

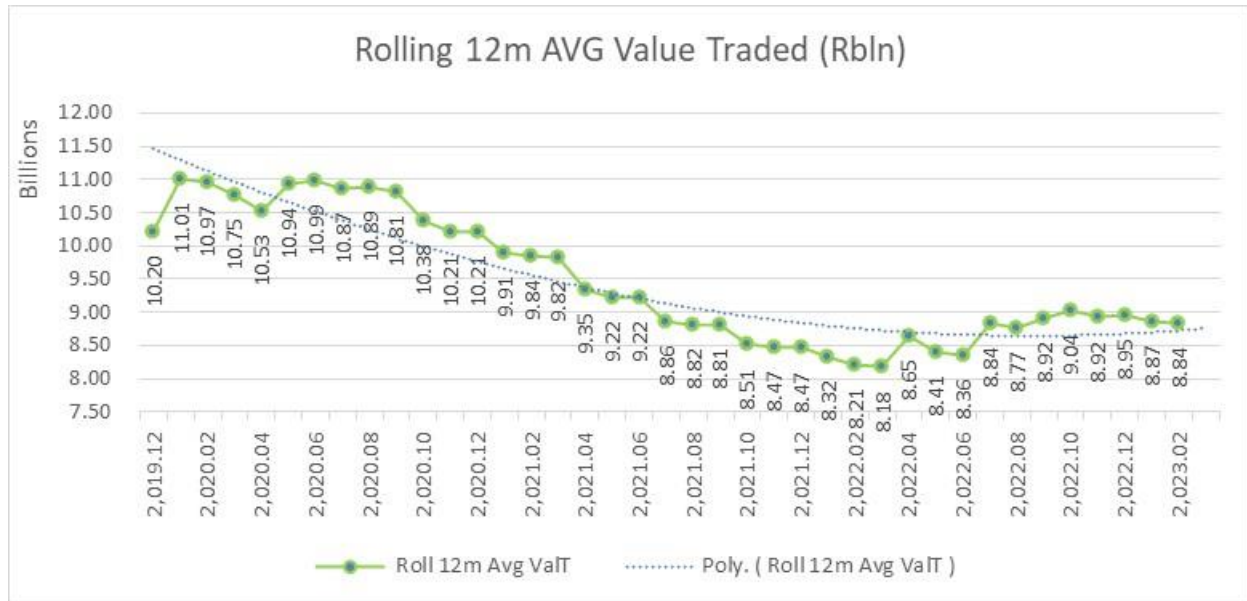
The Bond Index Future value traded¹ at R24.5bln, is DOWN 5.4% over same period previous year with Open Interest 6.9% DOWN compared to same period

Value Traded Rm				
	GOVI	ALBI	IGOV	Total
2022 YTD	17,937	5,015	2,975	25,927
2023 YTD	17,012	2,583	4,941	24,536
% Change	-5.2%	-48.5%	66.1%	-5.4%
Open Interest Contracts				
	GOVI	ALBI+IGOV	Total	
2022 YTD	989	718	1,707	
2023 YTD	834	755	1,589	
% Change	-15.7%	5.2%	-6.9%	



¹ Bond index activity is represented by value traded rather than contracts. The contracts have a large nominal exposure contract equivalent to (100k * Index level).

VALUE TRADED Rm					
	GOVI	ALBI	IGOV	Val Traded	Roll 12m Av
2019.01	5,683	11,086	2,674	19,442	
2019.02	497	4,005	327	4,828	
2019.03	2,086	1,092	118	3,296	
2019.04	5,676	16,580	4,658	26,914	
2019.05	538	115	50	702	
2019.06	74	138	-	211	
2019.07	11,167	11,628	4,418	27,214	
2019.08	797	482	271	1,550	
2019.09	339	21	878	1,238	
2019.10	18,183	5,601	7,265	31,049	
2019.11	2,362	2,695	884	5,941	
2019.12	55	14	-	69	10,205
2020.01	17,443	5,266	6,425	29,134	11,012
2020.02	1,283	2,316	663	4,262	10,965
2020.03	73	624	74	771	10,755
2020.04	13,806	4,444	5,987	24,237	10,532
2020.05	2,966	805	1,845	5,616	10,941
2020.06	300	50	461	812	10,991
2020.07	14,676	4,597	6,436	25,710	10,866
2020.08	349	915	552	1,816	10,888
2020.09	43	238	39	320	10,811
2020.10	14,608	5,155	6,094	25,857	10,379
2020.11	1,824	1,228	868	3,920	10,210
2020.12	67	30	8	105	10,213
2021.01	14,739	4,375	6,347	25,461	9,907
2021.02	778	1,715	1,003	3,496	9,843
2021.03	216	181	100	498	9,821
2021.04	11,671	3,020	3,841	18,532	9,345
2021.05	667	2,130	1,351	4,149	9,223
2021.06	134	274	372	780	9,220
2021.07	15,780	2,933	2,711	21,424	8,863
2021.08	239	1,073	18	1,330	8,822
2021.09	88	-	92	181	8,811
2021.10	16,282	2,948	3,056	22,286	8,513
2021.11	1,703	1,510	193	3,406	8,470
2021.12	49	-	-	49	8,466
2022.01	17,537	3,262	2,972	23,771	8,325
2022.02	399	1,753	3	2,155	8,213
2022.03	25	17	9	51	8,176
2022.04	18,758	2,199	3,207	24,164	8,645
2022.05	83	324	937	1,343	8,412
2022.06	48	99	3	151	8,359
2022.07	18,825	3,675	4,710	27,210	8,841
2022.08	158	232	51	441	8,767
2022.09	447	1,058	499	2,005	8,919
2022.10	17,243	1,946	4,507	23,695	9,037
2022.11	314	982	762	2,058	8,924
2022.12	125	69	203	397	8,953
2023.01	16,021	2,287	4,440	22,749	8,868
2023.02	990	295	501	1,787	8,837



End of report.