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UNIVERSITAS ISLAM NEGERI  
SUMATERA UTARA MEDAN

LAMPIRAN

Lampiran 1. Data Utang Luar Negeri Indonesia 2015-2022 (Sumber : SULNI)

**Tabel I.1**  
**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
*External Debt Position by Group of Borrower*

(Juta USD / Million of USD)

	2015											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Pemerintah dan Bank Sentral/ Government and Central Bank	135,724	134,755	132,756	132,863	133,610	134,600	134,511	133,982	134,207	136,621	137,747	142,608
1.1 Pemerintah / Government	129,761	129,275	127,823	127,959	128,439	129,444	129,471	128,781	129,063	131,507	132,646	137,396
1.2 Bank Sentral/ Central Bank	5,963	5,481	4,933	4,904	5,171	5,155	5,041	5,202	5,143	5,113	5,100	5,212
2. Swasta / Private	165,212	165,810	166,270	167,635	169,769	170,684	170,523	170,562	168,452	167,155	167,293	168,123
2.1 Lembaga Keuangan / Financial Corporations	41,360	41,719	42,034	43,110	43,234	43,360	43,849	43,169	41,889	41,162	41,330	42,997
2.1.1. Bank / Bank	30,919	31,207	31,005	31,571	31,414	31,420	32,043	31,351	30,276	29,733	29,497	31,920
2.1.1. LKBB / Nonbank Financial Corporations	10,441	10,512	11,029	11,539	11,821	11,940	11,806	11,819	11,613	11,429	11,833	11,077
2.2 Bukan Lembaga Keuangan / Nonfinancial Corporations	123,853	124,091	124,235	124,525	126,535	127,324	126,674	127,392	126,563	125,983	125,963	125,125
<b>TOTAL (1+2)</b>	300,936	300,565	299,025	300,498	303,379	305,284	305,034	304,544	302,659	303,776	305,040	310,730

Tabel I.1

**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
**External Debt Position by Group of Borrower**

(Juta USD / Million of USD)

	2016											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1. Pemerintah dan Bank Sentral/ Government and Central Bank</b>	143,401	146,869	151,312	153,756	150,684	158,697	159,700	159,722	162,182	159,798	154,480	158,283
1.1 Pemerintah / Government	138,347	141,788	146,163	148,299	145,504	153,264	154,384	155,188	158,259	155,946	150,958	154,875
1.2 Bank Sentral / Central Bank	5,054	5,081	5,149	5,457	5,181	5,433	5,316	4,534	3,923	3,852	3,521	3,408
<b>2. Swasta / Private</b>	167,336	167,408	167,032	167,895	166,314	168,672	167,670	165,918	166,670	166,411	163,713	161,722
2.1 Lembaga Keuangan / Financial Corporations	41,767	41,441	40,401	40,854	40,608	40,521	40,196	39,429	39,895	39,555	39,390	40,062
2.1.1. Bank / Bank	30,520	30,327	29,166	29,684	29,109	29,745	29,535	28,609	29,291	29,255	29,097	30,247
2.1.1.1. LKBB / Nonbank Financial Corporations	11,247	11,115	11,235	11,170	11,498	10,776	10,662	10,820	10,604	10,300	10,293	9,815
2.2 Bukan Lembaga Keuangan / Nonfinancial Corporations	125,569	125,967	126,631	127,041	125,707	128,152	127,474	126,489	126,775	126,856	124,323	121,661
<b>TOTAL (1+2)</b>	310,737	314,277	318,344	321,651	316,999	327,369	327,370	325,640	328,853	326,209	318,192	320,006

Tabel I.1

**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
**External Debt Position by Group of Borrower**

(Juta USD / Million of USD)

	2017											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1. Pemerintah dan Bank Sentral/ Government and Central Bank</b>	<b>161,235</b>	<b>162,095</b>	<b>166,312</b>	<b>167,878</b>	<b>168,524</b>	<b>170,282</b>	<b>174,340</b>	<b>174,939</b>	<b>175,911</b>	<b>173,209</b>	<b>176,399</b>	<b>180,622</b>
1.1 Pemerintah / Government	157,247	158,166	162,367	163,886	164,399	166,278	170,384	171,155	172,377	169,784	172,930	177,318
1.2 Bank Sentral / Central Bank	3,988	3,929	3,945	3,992	4,124	4,004	3,956	3,784	3,534	3,425	3,469	3,304
<b>2. Swasta / Private</b>	<b>162,588</b>	<b>162,768</b>	<b>163,070</b>	<b>163,843</b>	<b>166,829</b>	<b>166,517</b>	<b>166,672</b>	<b>167,554</b>	<b>168,649</b>	<b>168,497</b>	<b>171,234</b>	<b>171,847</b>
2.1 Lembaga Keuangan / Financial Corporations	40,155	39,811	39,543	39,390	39,675	40,087	39,917	39,617	40,103	39,906	40,997	40,563
2.1.1. Bank / Bank	30,249	29,794	29,508	29,141	29,229	29,768	29,340	29,032	29,362	28,977	29,282	30,300
2.1.1.1. LKBB / Nonbank Financial Corporations	9,906	10,017	10,034	10,249	10,446	10,319	10,578	10,585	10,741	10,928	11,714	10,263
2.2 Bukan Lembaga Keuangan / Nonfinancial Corporations	122,433	122,957	123,528	124,453	127,154	126,431	126,754	127,937	128,546	128,591	130,237	131,284
<b>TOTAL (1+2)</b>	<b>323,824</b>	<b>324,863</b>	<b>329,382</b>	<b>331,720</b>	<b>335,353</b>	<b>336,799</b>	<b>341,012</b>	<b>342,494</b>	<b>344,561</b>	<b>341,705</b>	<b>347,633</b>	<b>352,469</b>

Table I.1

**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
**External Debt Position by Group of Borrower**

(Muta USD/ Million of USD)

	2018											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Pemerintah dan Bank Sentral/ Government and Central Bank	183,390	181,397	184,685	183,828	182,547	179,728	180,831	181,304	179,166	178,335	183,518	186,275
1.1 Pemerintah / Government	180,215	177,852	181,137	180,500	179,269	176,481	177,404	178,123	176,131	175,352	180,462	183,197
1.2 Bank Sentral / Central Bank	3,175	3,544	3,548	3,327	3,279	3,247	3,427	3,181	3,035	2,983	3,055	3,078
2. Swasta / Private	173,168	174,167	172,767	172,491	175,045	174,078	175,641	178,511	177,923	179,709	187,326	189,155
2.1 Lembaga Keuangan / Financial Corporations	42,492	41,682	40,669	40,430	42,120	41,451	41,961	42,611	42,379	42,245	43,739	44,953
2.1.1. Bank / Bank	31,594	31,058	30,546	30,262	31,336	31,504	32,034	32,316	32,215	32,059	32,618	34,367
2.1.1. LKBB / Nonbank Financial Corporations	10,898	10,625	10,123	10,168	10,784	9,947	9,928	10,295	10,164	10,186	11,121	10,586
2.2 Bukan Lembaga Keuangan / Nonfinancial Corporations	130,675	132,485	132,098	132,061	132,925	132,628	133,680	135,900	135,545	137,463	143,587	144,202
<b>TOTAL (1+2)</b>	<b>356,558</b>	<b>355,564</b>	<b>357,452</b>	<b>356,319</b>	<b>357,592</b>	<b>353,807</b>	<b>356,472</b>	<b>359,814</b>	<b>357,090</b>	<b>358,043</b>	<b>370,844</b>	<b>375,430</b>



Tabel I.1

**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
**External Debt Position by Group of Borrower**

(Juta USD / Million of USD)

	2019											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1. Pemerintah dan Bank Sentral/ Government and Central Bank</b>	190,250	193,823	190,465	189,723	189,251	195,543	197,522	196,289	197,138	201,951	201,356	202,872
1.1 Pemerintah / Government	187,157	190,841	187,685	186,689	186,297	192,548	194,541	193,514	194,355	199,167	198,633	199,876
1.2 Bank Sentral / Central Bank	3,093	2,982	2,780	3,034	2,954	2,996	2,982	2,775	2,783	2,784	2,723	2,996
<b>2. Swasta / Private</b>	191,080	191,897	195,722	198,237	195,630	193,170	195,522	194,758	196,265	198,015	199,659	200,690
2.1 Lembaga Keuangan / Financial Corporations	46,854	45,960	48,691	50,288	47,301	47,259	46,932	45,888	45,412	45,743	46,573	46,636
2.1.1. Bank / Bank	35,675	34,895	38,038	39,721	36,140	36,135	35,448	34,527	34,048	34,344	35,082	35,245
2.1.1.1. LKBB / Nonbank Financial Corporations	11,179	11,065	10,653	10,567	11,162	11,124	11,484	11,361	11,365	11,399	11,491	11,391
2.2 Bukan Lembaga Keuangan / Nonfinancial Corporations	144,226	145,937	147,030	147,950	148,328	145,911	148,591	148,870	150,853	152,272	153,086	154,054
<b>TOTAL (1+2)</b>	381,330	385,720	386,186	387,960	384,880	388,713	393,045	391,046	393,403	399,967	401,015	403,563

Tabel I.1

**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
**External Debt Position by Group of Borrower**

(Juta USD / Million of USD)

	2020											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Pemerintah dan Bank Sentral/ Government and Central Bank	207,764	202,828	183,755	192,437	194,861	199,286	201,770	202,956	200,168	202,622	206,526	209,246
1.1 Pemerintah / Government	204,945	200,111	180,953	189,715	192,136	196,532	198,977	200,140	197,374	199,808	203,686	206,375
1.2 Bank Sentral / Central Bank	2,819	2,717	2,802	2,721	2,725	2,754	2,793	2,816	2,794	2,814	2,829	2,871
2. Swasta / Private	201,630	202,780	204,020	206,298	208,140	208,784	207,422	209,440	208,151	210,277	209,095	207,689
2.1 Lembaga Keuangan / Financial Corporations	45,933	46,188	46,590	46,942	45,843	45,473	45,105	45,094	44,060	44,865	44,808	43,227
2.1.1. Bank / Bank	35,191	35,276	35,580	35,876	34,620	34,777	34,556	34,592	33,671	34,354	33,829	33,600
2.1.1. LKBB / Nonbank Financial Corporations	10,741	10,911	11,010	11,066	11,223	10,697	10,549	10,502	10,389	10,510	10,978	9,627
2.2 Bukan Lembaga Keuangan / Nonfinancial Corporations	155,698	156,593	157,430	159,357	162,297	163,310	162,317	164,345	164,091	165,413	164,287	164,462
<b>TOTAL (1+2)</b>	<b>409,394</b>	<b>405,608</b>	<b>387,775</b>	<b>398,735</b>	<b>403,001</b>	<b>408,070</b>	<b>409,192</b>	<b>412,396</b>	<b>408,319</b>	<b>412,899</b>	<b>415,621</b>	<b>416,935</b>

Tabel I.1

**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
**External Debt Position by Group of Borrower**

(Juta USD / Million of USD)

	2021											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1. Pemerintah dan Bank Sentral/ Government and</b>	<b>213,631</b>	<b>212,106</b>	<b>206,000</b>	<b>208,412</b>	<b>206,292</b>	<b>207,866</b>	<b>208,700</b>	<b>216,653</b>	<b>214,646</b>	<b>213,971</b>	<b>211,206</b>	<b>209,205</b>
1.1 Pemerintah / Government	210,763	209,223	203,176	205,548	203,422	205,029	205,862	207,487	205,538	204,864	202,198	200,175
1.2 Bank Sentral / Central Bank	2,868	2,883	2,823	2,865	2,870	2,836	2,838	9,166	9,108	9,108	9,008	9,030
<b>2. Swasta / Private</b>	<b>206,486</b>	<b>209,585</b>	<b>208,890</b>	<b>208,445</b>	<b>209,032</b>	<b>207,216</b>	<b>206,720</b>	<b>206,534</b>	<b>208,705</b>	<b>207,836</b>	<b>204,391</b>	<b>204,767</b>
2.1 Lembaga Keuangan / Financial Corporations	43,068	43,855	43,454	42,692	43,444	42,299	42,826	42,383	42,860	42,279	42,297	41,360
2.1.1. Bank / Bank	33,370	34,034	34,044	33,477	34,383	33,218	33,738	33,511	34,019	33,499	33,272	32,898
2.1.1.1. LKBB / Nonbank Financial Corporation	9,698	9,821	9,411	9,215	9,061	9,081	9,088	8,872	8,841	8,780	9,025	8,461
2.2 Bukan Lembaga Keuangan / Nonfinancial Corpor	163,418	165,729	165,436	165,753	165,588	164,917	163,895	164,151	165,845	165,557	162,095	163,408
<b>TOTAL (1+2)</b>	<b>420,116</b>	<b>421,690</b>	<b>414,890</b>	<b>416,857</b>	<b>415,323</b>	<b>415,082</b>	<b>415,421</b>	<b>423,187</b>	<b>423,351</b>	<b>421,807</b>	<b>415,598</b>	<b>413,972</b>

Tabel I.1

**Posisi Utang Luar Negeri Menurut Kelompok Peminjam**  
**External Debt Position by Group of Borrower**

(Juta USD / Million of USD)

	2022											
	Jan*	Feb*	Mar*	Apr*	May*	Jun*	Jul*	Aug*	Sep*	Oct*	Nov*	Dec*
<b>1. Pemerintah dan Bank Sentral/ Government and Central Bank</b>	208,297	210,045	205,160	199,237	196,893	195,938	194,040	193,297	190,511	187,970	190,157	195,673
1.1 Pemerintah / Government	199,336	201,062	196,247	190,547	188,200	187,350	185,555	184,894	182,289	179,687	181,577	186,474
1.2 Bank Sentral/ Central Bank	8,961	8,983	8,913	8,690	8,693	8,588	8,485	8,403	8,222	8,283	8,580	9,198
<b>2. Swasta / Private</b>	204,760	205,805	205,882	209,180	208,485	205,933	205,642	204,757	204,140	201,969	203,020	201,085
2.1 Lembaga Keuangan/ Financial Corporations	41,201	42,406	41,277	41,863	43,528	42,275	41,973	40,852	40,963	40,839	41,459	40,248
2.1.1. Bank/ Bank	32,520	33,409	32,881	34,134	35,303	35,311	35,190	34,196	34,361	34,402	34,402	33,855
2.1.1. LKBB / Nonbank Financial Corporations	8,682	8,998	8,396	7,729	8,225	6,964	6,783	6,656	6,603	6,437	7,057	6,393
2.2 Bukan Lembaga Keuangan / Nonfinancial Corporations	163,559	163,698	164,605	167,317	164,957	163,659	163,669	163,905	163,176	161,130	161,561	160,838
<b>TOTAL (1+2)</b>	413,057	415,849	411,042	408,417	405,377	401,871	399,682	398,054	394,650	389,939	393,177	396,758

Lampiran 2. Rate PUAB Valas dan PUAS 2015-2022 (Sumber : SEKI)

1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun

JENIS SIMPANAN AND JANGKA WAKTU	2015											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1 Pasar Uang Antar Bank Rupiah Pagi</b>												
2 1Hari	5.85	5.65	6.81	5.80	5.60	5.63	5.63	5.75	7.10	5.96	5.86	7.58
3 Keseluruhan	5.91	5.75	6.84	5.89	5.75	5.76	5.75	5.91	7.23	6.25	6.28	7.96
<b>4 Pasar Uang Antar Bank Rupiah Sore</b>												
5 1Hari	5.84	5.65	6.45	5.74	5.60	5.67	5.62	5.74	8.12	5.87	5.87	7.33
6 Keseluruhan	5.93	5.76	6.52	5.86	5.68	5.75	5.88	5.89	7.96	6.18	6.05	7.66
<b>7 Pasar Uang Antar Bank Valas</b>												
8 1Hari	-	-	0.09	-	-	0.09	0.12	0.10	0.08	-	0.23	-
9 Keseluruhan	0.11	0.13	0.09	0.12	0.12	0.10	0.13	0.11	0.14	0.14	0.22	0.37
<b>10 JIBOR</b>												
11 1Hari	5.85	5.65	5.65	5.83	5.63	5.64	5.67	5.76	7.10	6.00	5.87	7.59
12 1Bulan	6.51	6.27	6.26	6.55	6.53	6.68	6.99	7.10	8.17	8.23	8.21	8.55
13 3Bulan	7.11	6.83	6.79	6.88	6.92	6.98	7.51	7.55	8.21	8.31	8.64	8.86
<b>14 Suku Bunga Penjaminan 2)</b>												
15 Simpanan Pihak Ketiga	-	-	-	-	-	-	-	-	-	-	-	0.00
<b>16 Pasar Uang Antar Bank Syariah</b>	6.27	5.87	6.89	5.84	5.77	5.21	5.87	5.73	6.95	5.84	6.01	6.73
<b>17 Deposito Investasi Mudharabah</b>	6.36	6.01	6.24	6.24	6.21	6.11	6.16	6.12	6.14	6.10	6.10	6.05

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB

**1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun**

JENIS SIMPANAN AND JANGKA WAKTU		2016											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1</b>	<b>Pasar Uang Antar Bank Rupiah Pagi</b>												
2	1Hari	5.40	5.14	4.89	4.94	4.86	5.00	4.62	4.80	5.45	4.19	4.17	4.20
3	Keseluruhan	5.66	5.31	5.22	5.18	5.16	5.85	5.00	5.14	5.46	4.43	4.52	5.92
<b>4</b>	<b>Pasar Uang Antar Bank Rupiah Sore</b>												
5	1Hari	5.40	5.11	4.86	4.99	4.86	4.84	4.62	4.79	5.45	4.19	4.17	-
6	Keseluruhan	5.71	5.23	5.08	5.14	5.10	5.35	4.85	5.19	5.46	4.43	4.27	6.04
<b>7</b>	<b>Pasar Uang Antar Bank Valas</b>												
8	1Hari	-	0.26	0.37	-	0.34	0.36	-	0.38	-	0.44	0.45	-
9	Keseluruhan	0.21	0.27	0.37	0.28	0.36	0.38	0.37	0.38	0.49	0.47	0.47	0.71
<b>10</b>	<b>JIBOR</b>												
11	1Hari	5.41	5.16	4.90	4.93	4.90	5.00	4.64	4.81	5.16	4.22	4.20	4.23
12	1Bulan	7.80	6.65	6.06	6.04	6.07	6.74	6.19	6.20	6.24	6.05	6.11	7.80
13	3Bulan	8.46	7.48	6.73	6.55	6.79	7.23	7.14	7.12	7.10	6.95	7.01	7.46
<b>14</b>	<b>Suku Bunga Penjaminan 2)</b>												
15	Simpanan Pihak Ketiga	-	-	-	-	-	6.75	6.75	6.75	6.25	6.25	6.25	6.25
<b>16</b>	<b>Pasar Uang Antar Bank Syariah</b>	<b>5.13</b>	<b>5.20</b>	<b>4.82</b>	<b>4.67</b>	<b>4.93</b>	<b>5.53</b>	<b>4.82</b>	<b>4.67</b>	<b>4.66</b>	<b>4.83</b>	<b>4.68</b>	<b>6.08</b>
<b>17</b>	<b>Deposito Investasi Mudharabah</b>	<b>6.03</b>	<b>5.87</b>	<b>5.89</b>	<b>5.88</b>	<b>5.85</b>	<b>5.82</b>	<b>5.83</b>	<b>5.78</b>	<b>5.87</b>	<b>5.77</b>	<b>5.52</b>	<b>5.78</b>

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang Wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB

**1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun**

JENIS SIMPANAN AND JANGKA WAKTU		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2017
1	<b>Pasar Uang Antar Bank Rupiah Pagi</b>													
2	1 Hari	4.14	4.31	4.37	4.38	4.35	4.93	4.30	4.09	3.90	3.90	3.90	3.87	3.87
3	Keseluruhan	4.64	4.55	4.80	4.74	4.73	5.44	4.51	4.25	4.20	4.17	4.10	4.41	4.41
4	<b>Pasar Uang Antar Bank Rupiah Sore</b>													
5	1 Hari	4.10	4.24	4.31	4.34	4.26	4.43	4.26	4.05	3.86	3.94	3.90	0.00	0.00
6	Keseluruhan	4.34	4.29	4.54	4.47	4.50	5.25	4.55	4.20	3.95	4.02	3.96	4.39	4.39
7	<b>Pasar Uang Antar Bank Valas</b>													
8	1 Hari	0.58	0.70	0.00	0.00	0.00	0.00	1.15	0.00	0.00	1.13	0.00	0.00	0.00
9	Keseluruhan	0.64	0.71	0.93	0.92	0.94	1.23	1.15	1.14	1.13	1.13	1.16	1.58	1.58
10	<b>JIBOR</b>													
11	1 Hari	4.17	4.34	4.37	4.39	4.38	4.96	4.35	4.10	3.90	3.92	3.91	3.90	3.90
12	1 Bulan	5.81	5.85	5.86	5.88	5.89	6.97	5.99	5.24	4.78	4.79	4.81	5.49	5.49
13	3 Bulan	6.83	6.84	6.87	6.85	6.86	7.00	6.88	5.57	5.20	5.17	5.24	5.48	5.48
14	<b>Suku Bunga Penjaminan 2)</b>													
15	Simpanan Pihak Ketiga	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.00	6.00	6.00	5.75	5.75
16	<b>Pasar Uang Antar Bank Syariah</b>	1.08	1.47	4.83	3.48	4.69	5.37	4.33	3.33	4.00	3.87	3.98	4.31	4.31
17	<b>Deposito Investasi Mudharabah</b>	5.45	5.33	5.65	5.49	5.51	5.59	5.53	5.49	5.44	5.59	5.27	5.29	5.29

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang Wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB

**1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun**

JENIS SIMPANAN AND JANGKA WAKTU	2018											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1 Pasar Uang Antar Bank Rupiah Pagi</b>												
2 1Hari	3.89	3.89	4.22	4.05	4.28	4.50	4.99	5.40	5.66	5.70	5.95	5.88
3 Keseluruhan	4.06	4.09	4.38	4.34	4.68	5.01	5.40	5.56	5.88	5.96	6.11	6.09
<b>4 Pasar Uang Antar Bank Rupiah Sore</b>												
5 1Hari	3.84	3.85	4.28	4.20	4.28	4.57	4.99	5.35	5.63	5.57	5.83	5.78
6 Keseluruhan	3.89	3.97	4.42	4.29	4.69	4.96	5.17	5.50	5.88	5.76	5.99	6.03
<b>7 Pasar Uang Antar Bank Valas</b>												
8 1Hari	137	136	-	-	-	-	189	-	-	2.15	-	0.00
9 Keseluruhan	138	141	168	168	169	193	192	197	2.20	2.18	2.15	2.36
<b>10 JIBOR</b>												
11 1Hari	3.90	3.92	4.15	4.07	4.32	4.49	5.00	5.40	5.65	5.71	5.96	5.90
12 1Bulan	4.94	4.92	5.04	5.44	6.74	6.96	6.45	6.69	6.99	7.08	7.31	7.54
13 3Bulan	5.31	5.31	5.36	5.70	6.95	7.10	7.10	7.12	7.35	7.53	7.68	7.70
<b>14 Suku Bunga Penjaminan 2)</b>												
15 Simpanan Pihak Ketiga	5.75	5.75	5.75	5.75	5.75	6.00	6.25	6.25	6.50	6.75	6.75	6.75
<b>16 Pasar Uang Antar Bank Syariah</b>	<b>4.27</b>	<b>3.85</b>	<b>4.45</b>	<b>4.01</b>	<b>4.43</b>	<b>4.91</b>	<b>4.98</b>	<b>5.40</b>	<b>5.70</b>	<b>5.91</b>	<b>5.92</b>	<b>5.89</b>
<b>17 Deposito Investasi Mudharabah</b>	<b>5.56</b>	<b>5.17</b>	<b>6.41</b>	<b>5.13</b>	<b>4.87</b>	<b>4.94</b>	<b>5.05</b>	<b>5.00</b>	<b>5.26</b>	<b>5.14</b>	<b>5.02</b>	<b>5.10</b>

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang Wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB



**1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun**

JENIS SIMPANAN AND JANGKA WAKTU		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2019
1	<b>Pasar Uang Antar Bank Rupiah Pagi</b>													
2	1Hari	5.92	5.85	5.98	5.91	6.34	5.90	5.70	5.34	5.15	4.88	4.85	4.88	4.88
3	Keseluruhan	6.12	6.10	6.13	6.10	6.40	6.02	5.84	5.46	5.24	4.97	4.90	4.94	4.94
4	<b>Pasar Uang Antar Bank Rupiah Sore</b>													
5	1Hari	5.82	5.72	5.92	5.87	5.99	5.77	5.59	5.31	5.13	4.85	4.85	4.88	4.88
6	Keseluruhan	5.90	5.79	6.06	5.95	6.12	5.87	5.65	5.34	5.19	4.86	4.89	4.95	4.95
7	<b>Pasar Uang Antar Bank Valas</b>													
8	1Hari	2.34	2.34	-	-	-	-	2.31	-	1.79	1.76	-	-	0.00
9	Keseluruhan	2.39	2.36	2.37	2.35	2.37	2.32	2.32	2.03	1.83	1.76	1.53	1.59	1.59
10	<b>JIBOR</b>													
11	1Hari	5.83	5.73	5.94	5.88	6.12	5.84	5.62	5.32	5.13	4.86	4.85	4.88	4.88
12	1Bulan	6.36	7.07	7.01	7.00	6.48	6.77	6.10	5.90	5.66	5.32	5.30	5.44	5.44
13	3 Bulan	7.14	7.32	7.21	7.21	7.24	6.95	6.36	6.14	5.86	5.49	5.50	5.51	5.51
14	<b>Suku Bunga Penjaminan 2)</b>													
15	Simpanan Pihak Ketiga	7.00	7.00	7.00	7.00	7.00	7.00	7.00	6.75	6.50	6.50	6.50	6.25	6.25
16	<b>Pasar Uang Antar Bank Syariah</b>	5.94	5.83	6.04	5.96	5.95	5.92	5.54	1.75	1.46	4.82	3.06	3.56	3.56
17	<b>Deposito Investasi Mudharabah</b>	5.35	4.88	5.12	5.05	4.84	4.95	4.88	4.83	4.74	4.60	4.72	4.76	4.76

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang Wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB

**1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun**

JENIS SIMPANAN AND JANGKA WAKTU		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2020
<b>1</b>	<b>Pasar Uang Antar Bank Rupiah Pagi</b>													
2	1Hari	4.86	4.62	4.35	4.31	4.33	4.06	3.40	3.32	3.29	3.31	3.04	3.05	3.05
3	Keseluruhan	4.92	4.71	4.39	4.48	4.39	4.18	3.64	3.37	3.31	3.40	3.12	3.45	3.45
<b>4</b>	<b>Pasar Uang Antar Bank Rupiah Sore</b>													
5	1Hari	4.79	4.57	4.34	4.33	4.31	4.09	3.36	3.30	3.29	3.33	3.04	3.05	3.05
6	Keseluruhan	4.82	4.61	4.38	4.42	4.38	4.17	3.53	3.40	3.30	3.39	3.16	3.26	3.26
<b>7</b>	<b>Pasar Uang Antar Bank Valas</b>													
8	1Hari	-	-	0.14	-	-	0.07	-	0.06	0.07	-	0.05	-	0.00
9	Keseluruhan	1.52	1.54	0.14	0.08	0.04	0.08	0.07	0.06	0.08	0.09	0.08	0.08	0.08
<b>10</b>	<b>JIBOR</b>													
11	1Hari	4.81	4.58	4.34	4.32	4.32	4.08	3.37	3.31	3.29	3.32	3.04	3.05	3.05
12	1Bulan	5.40	5.05	4.79	4.80	4.80	4.56	4.13	4.07	4.06	4.05	3.80	3.81	3.81
13	3Bulan	5.46	5.13	4.88	4.90	4.90	4.66	4.36	4.32	4.30	4.30	4.06	4.06	4.06
<b>14</b>	<b>Suku Bunga Penjaminan 2)</b>													
15	Simpanan Pihak Ketiga	6.25	6.00	5.75	5.75	5.50	5.50	5.25	5.25	5.25	5.25	5.00	4.50	4.50
<b>16</b>	<b>Pasar Uang Antar Bank Syariah</b>													
17	Deposito Investasi Mudharabah	4.70	4.45	4.63	4.59	4.27	4.13	4.14	4.07	4.00	4.00	3.95	3.95	3.95

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB

**1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun**

JENIS SIMPANAN AND JANGKA WAKTU	2021											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1 Pasar Uang Antar Bank Rupiah Pagi</b>												
2 1Hari	3.05	2.80	2.79	2.80	2.80	2.80	2.80	2.79	2.80	2.80	2.79	2.78
3 Keseluruhan	3.21	3.17	2.95	2.90	2.97	2.88	2.88	2.87	3.04	2.84	2.82	2.83
<b>4 Pasar Uang Antar Bank Rupiah Sore</b>												
5 1Hari	3.03	2.80	2.79	2.79	2.79	2.80	2.83	2.78	2.79	2.80	2.79	2.78
6 Keseluruhan	3.07	2.95	2.85	2.80	2.94	2.85	2.93	2.86	2.84	2.83	2.80	3.01
<b>7 Pasar Uang Antar Bank Valas</b>												
8 1Hari	-	-	0.05	-	-	0.04	-	0.05	0.05	-	0.05	0.00
9 Keseluruhan	0.08	0.07	0.09	0.08	-	0.05	0.07	0.07	0.09	0.06	0.07	0.05
<b>10 JIBOR</b>												
11 1Hari	3.04	2.80	2.79	2.79	2.79	2.80	2.82	2.79	2.80	2.80	2.79	2.78
12 1Bulan	3.80	3.56	3.56	3.56	3.56	3.56	3.55	3.55	3.56	3.56	3.55	3.55
13 3Bulan	4.04	3.78	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
<b>14 Suku Bunga Penjaminan 2)</b>												
15 Simpanan Pihak Ketiga	4.50	4.25	4.25	4.25	4.00	4.00	4.00	4.00	3.50	3.50	3.50	3.50
<b>16 Pasar Uang Antar Bank Syariah</b>	<b>3.05</b>	<b>1.08</b>	<b>2.00</b>	<b>2.54</b>	<b>0.93</b>	<b>2.30</b>	<b>1.50</b>	<b>1.24</b>	<b>1.72</b>	<b>1.34</b>	<b>2.75</b>	<b>2.21</b>
<b>17 Deposito Investasi M udharabah</b>	<b>3.88</b>	<b>3.75</b>	<b>3.65</b>	<b>3.50</b>	<b>3.58</b>	<b>3.48</b>	<b>3.48</b>	<b>3.18</b>	<b>2.82</b>	<b>3.07</b>	<b>2.95</b>	<b>2.97</b>

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang Wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB

**1.25. SUKU BUNGA, DISKONTO, IMBALAN  
Persen Per Tahun**

JENIS SIMPANGAN AND JANGKA WAKTU		2022											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>1</b>	<b>Pasar Uang Antar Bank Rupiah Pagi</b>												
2	1Hari	2.79	2.79	2.79	3.50	2.79	2.80	2.80	3.14	3.84	4.26	4.81	5.03
3	Keseluruhan	2.80	2.89	2.92	3.51	2.87	2.94	2.91	3.65	4.03	4.43	5.07	5.16
<b>4</b>	<b>Pasar Uang Antar Bank Rupiah Sore</b>												
5	1Hari	2.78	2.79	2.79	3.49	2.79	2.79	2.80	3.12	3.84	4.24	4.81	5.01
6	Keseluruhan	2.78	2.82	3.43	3.50	2.81	3.07	3.08	3.34	3.91	4.26	5.01	5.26
<b>7</b>	<b>Pasar Uang Antar Bank Valas</b>												
8	1Hari	-	-	0.36	-	-	1.62	-	2.34	-	3.14	3.87	-
9	Keseluruhan	0.09	0.10	0.39	0.46	0.91	1.65	2.53	2.35	3.19	3.16	3.90	-
<b>10</b>	<b>JIBOR</b>												
11	1Hari	2.79	2.79	2.79	3.49	2.79	2.80	2.80	3.13	3.84	4.25	4.81	5.02
12	1Bulan	3.55	3.55	3.55	3.55	3.54	3.54	3.69	4.08	4.87	5.45	5.95	6.20
13	3Bulan	3.75	3.75	3.75	3.75	3.75	3.75	3.83	4.19	5.11	5.68	6.17	6.62
<b>14</b>	<b>Suku Bunga Penjaminan 2)</b>												
15	Simpanan Pihak Ketiga	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.75	3.75
<b>16</b>	<b>Pasar Uang Antar Bank Syariah</b>												
17	Deposito Investasi Mudharabah	2.89	2.67	2.54	2.74	2.29	2.80	2.88	3.31	3.79	4.37	5.10	5.23
		3.00	2.81	2.78	2.88	2.81	3.82	2.73	2.69	2.74	2.80	2.91	2.92

1) Data transaksi per akhir periode

2) Sejak 15 Juli 2007, istilah Suku Bunga Penjaminan berubah menjadi Tingkat Bunga Yang Wajar

3) Sejak 22 September 2005, tidak ada lagi penjaminan untuk PUAB

**Lampiran 3. Perhitungan Pergerakan ULN, Kurs, Rate PUAB Valas, Rate PUAS dari bulan ke bulan ( $\Delta$ mtm) dan Persentase Rate PUAB Valas dan Rate PUAS Terhadap Nilai Rata-ratanya**

	Utang Luar Negeri (Rp)		Kurs		rate PUAB valas (%)		rate PUAS Rp (%)		Rate PUAB Valas		Rate PUAS	
	USD	IDR	$\Delta$ MtM	Rp/USD	$\Delta$ MtM	all	$\Delta$ MtM	all	%	% to Avg	%	% to Avg
Jan-15	294,973,397,516	3,724,039,143,644,980		12,625		0.11	6.27		0.11%	11.20%	6.27%	156.41%
Feb-15	295,084,502,290	3,795,671,952,957,600	1.92%	12,863	1.89%	0.13	18.18%	5.87	-6.38%	0.13%	13.23%	146.43%
Mar-15	294,092,464,186	3,847,905,801,408,510	1.38%	13,084	1.72%	0.09	-30.77%	6.89	17.38%	0.09%	9.16%	171.87%
Apr-15	295,594,414,593	3,824,104,941,594,510	-0.62%	12,937	-1.12%	0.12	33.33%	5.84	-15.24%	0.12%	12.22%	145.68%
May-15	298,208,285,905	3,939,629,665,090,660	3.02%	13,211	2.12%	0.12	0.00%	5.77	-1.20%	0.12%	12.22%	143.94%
Jun-15	300,128,228,931	4,001,309,548,102,290	1.57%	13,332	0.92%	0.10	-16.67%	5.21	-9.71%	0.10%	10.18%	129.97%
Jul-15	299,993,299,994	4,044,209,677,212,830	1.07%	13,481	1.12%	0.13	30.00%	5.87	12.67%	0.13%	13.23%	146.43%
Aug-15	299,342,423,575	4,198,876,175,493,190	3.82%	14,027	4.05%	0.11	-15.38%	5.73	-2.39%	0.11%	11.20%	142.94%
Sep-15	297,515,349,445	4,360,682,476,812,760	3.85%	14,657	4.49%	0.14	27.27%	6.95	21.29%	0.14%	14.25%	173.37%
Oct-15	298,662,452,199	4,073,457,185,548,900	-6.59%	13,639	-6.95%	0.14	0.00%	5.84	-15.97%	0.14%	14.25%	145.68%
Nov-15	299,939,525,519	4,151,163,033,176,400	1.91%	13,840	1.47%	0.22	57.14%	6.01	2.91%	0.22%	22.39%	149.92%
Dec-15	305,518,059,945	4,214,621,636,938,490	1.53%	13,795	-0.33%	0.37	68.18%	6.73	11.98%	0.37%	37.66%	167.88%
Jan-16	305,683,333,288	4,232,491,709,624,530	0.42%	13,846	0.37%	0.21	-43.24%	5.13	-23.77%	0.21%	21.38%	127.97%
Feb-16	309,195,982,828	4,141,680,189,975,010	-2.15%	13,395	-3.26%	0.27	28.57%	5.20	1.36%	0.27%	27.48%	129.72%
Mar-16	313,194,719,245	4,157,973,092,692,590	0.39%	13,276	-0.89%	0.37	37.04%	4.82	-7.31%	0.37%	37.66%	120.24%
Apr-16	316,194,438,498	4,175,031,365,929,370	0.41%	13,204	-0.54%	0.28	-24.32%	4.67	-3.11%	0.28%	28.50%	116.50%
May-16	311,818,140,702	4,245,403,985,660,400	1.69%	13,615	3.11%	0.36	28.57%	4.93	5.57%	0.36%	36.65%	122.98%
Jun-16	321,936,336,130	4,243,120,910,189,780	-0.05%	13,180	-3.20%	0.38	5.56%	5.53	12.17%	0.38%	38.68%	137.95%
Jul-16	322,054,066,542	4,216,975,947,296,350	-0.62%	13,094	-0.65%	0.37	-2.63%	4.82	-12.84%	0.37%	37.66%	120.24%
Aug-16	321,105,436,062	4,270,702,299,629,370	1.27%	13,300	1.57%	0.38	2.70%	4.67	-3.11%	0.38%	38.68%	116.50%
Sep-16	324,929,755,213	4,223,436,958,257,070	-1.11%	12,998	-2.27%	0.49	28.95%	4.66	-0.21%	0.49%	49.88%	116.25%
Oct-16	322,357,291,274	4,207,085,008,414,340	-0.39%	13,051	0.41%	0.47	-4.08%	4.83	3.65%	0.47%	47.84%	120.49%
Nov-16	314,670,915,273	4,267,881,623,843,240	1.45%	13,563	3.97%	0.47	0.00%	4.68	-3.11%	0.47%	47.84%	116.75%
Dec-16	316,597,548,215	4,253,804,657,815,920	-0.33%	13,436	-0.94%	0.71	51.06%	6.08	29.91%	0.71%	72.27%	151.67%

	Utang Luar Negeri (Rp)		Kurs Rp/USD	rate PUAB valas (%)		rate PUAS Rp (%)		Rate PUAB Valas		Rate PUAS		
	USD	IDR		Δ MtM	all	Δ MtM	all	%	% to Avg %	%	% to Avg %	
Jan-17	319,835,829,193	4,267,569,468,927,310	0.32%	-0.69%	0.64	-9.86%	1.08	-82.24%	0.64%	65.15%	1.08%	26.94%
Feb-17	320,934,035,783	4,283,506,575,601,230	0.37%	0.03%	0.71	10.94%	1.47	36.11%	0.71%	72.27%	1.47%	36.67%
Mar-17	325,437,445,333	4,335,152,209,281,990	1.21%	-0.19%	0.93	30.99%	4.83	228.57%	0.93%	94.67%	4.83%	120.49%
Apr-17	327,728,509,605	4,367,637,847,508,200	0.75%	0.05%	0.92	-1.08%	3.48	-27.95%	0.92%	93.65%	3.48%	86.81%
May-17	331,228,862,976	4,412,299,683,035,060	1.02%	-0.05%	0.94	2.17%	4.69	34.77%	0.94%	95.69%	4.69%	116.99%
Jun-17	332,795,460,770	4,432,502,741,999,410	0.46%	-0.02%	1.23	30.85%	5.37	14.50%	1.23%	125.21%	5.37%	133.96%
Jul-17	337,056,388,499	4,490,602,263,973,760	1.31%	0.03%	1.15	-6.50%	4.33	-19.37%	1.15%	117.06%	4.33%	108.01%
Aug-17	338,709,775,976	4,522,114,219,055,440	0.70%	0.21%	1.14	-0.87%	3.33	-23.09%	1.14%	116.04%	3.33%	83.07%
Sep-17	341,026,313,958	4,601,127,027,914,610	1.75%	1.06%	1.13	-0.88%	4.00	20.12%	1.13%	115.03%	4.00%	99.78%
Oct-17	338,280,634,350	4,591,144,769,398,730	-0.22%	0.59%	1.13	0.00%	3.87	-3.25%	1.13%	115.03%	3.87%	96.54%
Nov-17	344,164,055,546	4,651,033,046,645,670	1.30%	-0.43%	1.16	2.65%	3.98	2.84%	1.16%	118.08%	3.98%	99.28%
Dec-17	349,164,913,988	4,730,486,254,709,700	1.71%	0.25%	1.58	36.21%	4.31	8.29%	1.58%	160.83%	4.31%	107.52%
Jan-18	353,382,752,556	4,739,922,860,030,030	0.20%	-1.00%	1.38	-12.66%	4.27	-0.93%	1.38%	140.47%	4.27%	106.52%
Feb-18	352,019,718,739	4,825,134,284,761,780	1.80%	2.19%	1.41	2.17%	3.85	-9.84%	1.41%	143.53%	3.85%	96.04%
Mar-18	353,904,053,892	4,868,304,165,340,770	0.89%	0.36%	1.68	19.15%	4.45	15.58%	1.68%	171.01%	4.45%	111.01%
Apr-18	352,991,269,204	4,898,459,842,739,070	0.62%	0.88%	1.68	0.00%	4.01	-9.89%	1.68%	171.01%	4.01%	100.03%
May-18	354,313,316,931	4,943,025,084,497,550	0.91%	0.53%	1.69	0.60%	4.43	10.47%	1.69%	172.03%	4.43%	110.51%
Jun-18	350,559,704,048	5,049,461,977,108,730	2.15%	3.25%	1.93	14.20%	4.91	10.84%	1.93%	196.46%	4.91%	122.48%
Jul-18	353,044,855,440	5,088,435,501,455,710	0.77%	0.06%	1.92	-0.52%	4.98	1.43%	1.92%	195.44%	4.98%	124.23%
Aug-18	356,633,868,927	5,246,440,845,791,480	3.11%	2.07%	1.97	2.60%	5.40	8.43%	1.97%	200.53%	5.40%	134.71%
Sep-18	354,054,737,231	5,285,683,172,114,780	0.75%	1.48%	2.20	11.68%	5.70	5.56%	2.20%	223.95%	5.70%	142.19%
Oct-18	355,060,487,692	5,406,506,046,079,740	2.29%	2.00%	2.18	-0.91%	5.91	3.68%	2.18%	221.91%	5.91%	147.43%
Nov-18	367,788,424,952	5,273,718,225,391,450	-2.46%	-5.83%	2.15	-1.38%	5.92	0.17%	2.15%	218.86%	5.92%	147.68%
Dec-18	372,351,912,672	5,392,028,047,397,230	2.24%	0.99%	2.36	9.77%	5.89	-0.51%	2.36%	240.23%	5.89%	146.93%

	Utang Luar Negeri (Rp)		Kurs Rp/USD	rate PUAB valas (%)		rate PUAS Rp (%)		Rate PUAB Valas % to Avg %	Rate PUAS % to Avg %			
	USD	IDR		Δ MtM	MtM	Δ MtM	MtM					
Jan-19	379,255,504,967	5,491,998,967,420,720	14,481	0.00%	2.39	1.27%	5.94	0.85%	2.39%	243.29%	5.94%	148.18%
Feb-19	383,751,860,772	5,400,156,184,778,520	14,072	-2.82%	2.36	-1.26%	5.83	-1.85%	2.36%	240.23%	5.83%	145.43%
Mar-19	384,456,616,480	5,503,496,464,910,210	14,315	1.73%	2.37	0.42%	6.04	3.60%	2.37%	241.25%	6.04%	150.67%
Apr-19	386,003,223,355	5,514,442,048,848,030	14,286	-0.20%	2.35	-0.84%	5.96	-1.32%	2.35%	239.21%	5.96%	148.68%
May-19	383,016,716,102	5,537,272,664,691,600	14,457	1.20%	2.37	0.85%	5.95	-0.17%	2.37%	241.25%	5.95%	148.43%
Jun-19	386,802,986,294	5,497,244,041,205,590	14,212	-1.69%	2.32	-2.11%	5.92	-0.50%	2.32%	236.16%	5.92%	147.68%
Jul-19	391,352,016,771	5,516,498,028,408,590	14,096	-0.82%	2.32	0.00%	5.54	-6.42%	2.32%	236.16%	5.54%	138.20%
Aug-19	389,379,580,171	5,571,243,033,084,370	14,308	1.50%	2.03	-12.50%	1.75	-68.41%	2.03%	206.64%	1.75%	43.65%
Sep-19	391,767,621,356	5,580,729,766,220,680	14,245	-0.44%	1.83	-9.85%	1.46	-16.57%	1.83%	186.28%	1.46%	36.42%
Oct-19	398,332,027,148	5,622,058,231,167,940	14,114	-0.92%	1.76	-3.83%	4.82	230.14%	1.76%	179.16%	4.82%	120.24%
Nov-19	399,325,407,387	5,659,239,673,485,150	14,172	0.41%	1.53	-13.07%	3.06	-36.51%	1.53%	155.74%	3.06%	76.33%
Dec-19	401,508,132,594	5,609,068,612,341,770	13,970	-1.43%	1.59	3.92%	3.56	16.34%	1.59%	161.85%	3.56%	88.81%
Jan-20	406,575,624,495	5,554,636,181,846,580	13,662	-2.20%	1.52	-4.40%	2.22	-37.64%	1.52%	154.73%	2.22%	55.38%
Feb-20	402,891,204,387	5,734,753,403,244,940	14,234	4.19%	1.54	1.32%	1.54	-30.69%	1.54%	156.76%	1.54%	38.38%
Mar-20	384,973,638,792	6,300,863,546,102,110	16,367	14.99%	0.14	-90.91%	1.78	15.42%	0.14%	14.25%	1.78%	44.30%
Apr-20	396,013,591,821	6,002,378,011,233,680	15,157	-7.39%	0.08	-42.86%	4.39	147.03%	0.08%	8.14%	4.39%	109.44%
May-20	400,275,828,816	5,897,263,785,948,470	14,733	-2.80%	0.04	-50.00%	3.07	-30.02%	0.04%	4.07%	3.07%	76.58%
Jun-20	405,316,107,910	5,796,830,975,330,490	14,302	-2.93%	0.08	100.00%	2.45	-20.20%	0.08%	8.14%	2.45%	61.12%
Jul-20	406,398,698,802	5,954,960,133,548,260	14,653	2.45%	0.07	-12.50%	1.84	-24.90%	0.07%	7.13%	1.84%	45.90%
Aug-20	409,579,834,071	5,961,024,905,065,150	14,554	-0.68%	0.06	-14.29%	2.63	42.93%	0.06%	6.11%	2.63%	65.61%
Sep-20	405,525,232,551	6,049,625,419,196,360	14,918	2.50%	0.08	33.33%	0.84	-68.06%	0.08%	8.14%	0.84%	20.95%
Oct-20	410,085,877,451	6,024,161,539,754,650	14,690	-1.53%	0.09	12.50%	2.21	163.10%	0.09%	9.16%	2.21%	55.13%
Nov-20	412,791,505,958	5,831,918,396,170,440	14,128	-3.83%	0.08	-11.11%	2.63	19.00%	0.08%	8.14%	2.63%	65.61%
Dec-20	414,064,464,926	5,840,379,277,781,980	14,105	-0.16%	0.08	0.00%	2.68	1.90%	0.08%	8.14%	2.68%	66.85%

	Utang Luar Negeri (Rp)		Kurs		rate PUAB valas (%)		rate PUAS Rp (%)		Rate PUAB Valas		Rate PUAS	
	USD	IDR	Δ MtM	Rp/USD	Δ MtM	all	all	Δ MtM	all	%	% to Avg	% to Avg
Jan-21	417,248,670,829	5,876,530,279,958,730	0.62%	14,084	-0.15%	0.08	-5.29%	3.05	13.81%	0.08%	7.71%	3.05%
Feb-21	418,807,581,758	5,959,213,080,839,050	1.41%	14,229	1.03%	0.07	-12.67%	1.08	-64.69%	0.07%	6.74%	1.08%
Mar-21	412,066,473,446	6,004,632,651,054,500	0.76%	14,572	2.41%	0.09	30.45%	2.00	86.06%	0.09%	8.79%	2.00%
Apr-21	413,992,204,951	5,989,639,221,233,930	-0.25%	14,468	-0.71%	0.08	-5.70%	2.54	26.66%	0.08%	8.29%	2.54%
May-21	412,453,437,282	5,902,208,687,506,290	-1.46%	14,310	-1.09%	0.08	0.00%	0.93	-63.22%	0.00%	0.00%	0.93%
Jun-21	412,245,341,737	5,975,908,473,815,380	1.25%	14,496	1.30%	0.05	0.00%	2.30	146.19%	0.05%	4.89%	2.30%
Jul-21	412,582,896,383	5,978,738,751,486,210	0.05%	14,491	-0.03%	0.07	45.63%	1.50	-34.83%	0.07%	7.13%	1.50%
Aug-21	414,021,282,640	5,951,141,916,660,900	-0.46%	14,374	-0.81%	0.07	-0.29%	1.24	-16.90%	0.07%	7.11%	1.24%
Sep-21	414,243,695,328	5,926,584,549,063,330	-0.41%	14,307	-0.47%	0.09	25.61%	1.72	38.38%	0.09%	8.93%	1.72%
Oct-21	412,699,848,841	5,859,925,153,693,570	-1.12%	14,199	-0.75%	0.06	-26.81%	1.34	-21.97%	0.06%	6.53%	1.34%
Nov-21	406,589,215,206	5,830,489,346,052,020	-0.50%	14,340	0.99%	0.07	5.62%	2.75	104.47%	0.07%	6.90%	2.75%
Dec-21	404,942,133,485	5,778,119,302,701,060	-0.90%	14,269	-0.50%	0.05	-26.25%	2.21	-19.51%	0.05%	5.09%	2.21%
Jan-22	404,081,423,652	5,811,094,953,540,020	0.57%	14,381	0.78%	0.09	80.00%	2.89	30.68%	0.09%	9.16%	2.89%
Feb-22	406,798,048,015	5,846,094,748,025,560	0.60%	14,371	-0.07%	0.10	11.11%	2.67	-7.61%	0.10%	10.18%	2.67%
Mar-22	402,023,292,307	5,768,632,221,311,590	-1.33%	14,349	-0.15%	0.39	290.00%	2.54	-4.87%	0.39%	39.70%	2.54%
Apr-22	399,620,240,682	5,761,724,630,147,970	-0.12%	14,418	0.48%	0.46	17.95%	2.74	7.87%	0.46%	46.82%	2.74%
May-22	396,603,262,040	5,768,197,843,106,880	0.11%	14,544	0.87%	0.91	97.83%	2.29	-16.42%	0.91%	92.63%	2.29%
Jun-22	393,124,370,319	5,837,110,650,501,210	1.19%	14,848	2.09%	1.65	81.32%	2.80	22.27%	1.65%	167.96%	2.80%
Jul-22	391,005,674,205	5,848,662,874,758,730	0.20%	14,958	0.74%	2.53	53.33%	2.88	2.86%	2.53%	257.54%	2.88%
Aug-22	390,135,116,946	5,803,259,864,576,460	-0.78%	14,875	-0.55%	2.35	-7.11%	3.31	14.93%	2.35%	239.21%	3.31%
Sep-22	386,993,526,671	5,900,490,301,145,740	1.68%	15,247	2.50%	3.19	35.74%	3.79	14.50%	3.19%	324.72%	3.79%
Oct-22	382,201,841,245	5,940,181,016,626,180	0.67%	15,542	1.93%	3.16	-0.94%	4.37	15.50%	3.16%	321.67%	4.37%
Nov-22	385,090,519,293	6,060,169,502,108,830	2.02%	15,737	1.25%	3.90	23.42%	5.10	16.70%	3.90%	396.99%	5.10%
Dec-22	387,981,729,050	6,103,340,579,683,470	0.71%	15,731	-0.04%	3.90	0.00%	5.23	2.55%	0.00%	0.00%	5.23%



**Lampiran 4. Nilai Rata-rata, Nilai Maximum, Nilai Minimum, dan Standar Deviasi ULN dalam Rupiah, Kurs, Rate PUAB Valas, Rate PUAS serta pergerakannya dari bulan ke bulan ( $\Delta$ mtm)**

	Utang Luar Negeri (Rp)			$\Delta$ MtM	Kurs Rp/USD	$\Delta$ MtM	rate PUAB valas (%)		rate PUAS Rp (%)	
	USD	IDR					all	$\Delta$ MtM	all	$\Delta$ MtM
Avg. 2015	298,254,367,008	4,014,639,269,831,760	1.17%	13,457.58	0.85%	0.15	0.16	6.08	0.01	
Avg. 2016	316,644,831,939	4,219,632,312,444,000	0.08%	13,329.83	-0.20%	0.40	0.09	5.00	(0.00)	
Avg. 2017	333,863,518,827	4,473,764,675,670,930	0.89%	13,398.17	0.07%	1.06	0.08	3.73	0.16	
Avg. 2018	356,342,091,857	5,084,760,004,392,360	1.11%	14,267.33	0.58%	1.88	0.04	4.98	0.03	
Avg. 2019	389,579,307,783	5,541,953,976,380,260	0.33%	14,227.33	-0.29%	2.10	(0.03)	4.65	0.10	
Avg. 2020	404,540,967,498	5,912,399,631,268,590	0.40%	14,625.25	0.22%	0.32	-6.58%	2.36	14.82%	
Avg. 2021	412,657,731,824	5,919,427,617,838,750	-0.09%	14,344.92	0.10%	0.07	2.53%	1.89	16.20%	
Avg. 2022	393,804,920,369	5,870,746,598,794,390	0.46%	14,916.75	0.82%	1.89	56.89%	3.38	8.23%	
	Utang Luar Negeri (Rp)			$\Delta$ MtM	Kurs Rp/USD	$\Delta$ MtM	rate PUAB valas (%)		rate PUAS Rp (%)	
	USD	IDR					all	$\Delta$ MtM	all	$\Delta$ MtM
Max. 2015	305,518,059,945	4,360,682,476,812,760	3.85%	14,657	4.49%	0.37	0.68	6.95	0.21	
Max. 2016	324,929,755,213	4,270,702,299,629,370	1.69%	13,846	3.92%	0.71	0.51	6.08	0.30	
Max. 2017	349,164,913,988	4,730,486,254,709,700	1.75%	13,572	1.06%	1.58	0.36	5.37	2.29	
Max. 2018	372,351,912,672	5,406,506,046,079,740	3.11%	15,227	3.25%	2.36	0.19	5.92	0.16	
Max. 2019	401,508,132,594	5,659,239,673,485,150	1.91%	14,481	1.73%	2.39	0.04	6.04	2.30	
Max. 2020	414,064,464,926	6,300,863,546,102,110	9.87%	16,367	14.99%	1.54	1.00	4.39	1.63	
Max. 2021	418,807,581,758	6,004,632,651,054,500	1.41%	14,572	2.41%	0.09	0.46	3.05	1.46	
Max. 2022	406,798,048,015	6,103,340,579,683,470	2.02%	15,737	2.50%	3.90	2.90	5.23	0.31	
	Utang Luar Negeri (Rp)			$\Delta$ MtM	Kurs Rp/USD	$\Delta$ MtM	rate PUAB valas (%)		rate PUAS Rp (%)	
	USD	IDR					all	$\Delta$ MtM	all	$\Delta$ MtM
Min. 2015	294,092,464,186	3,724,039,143,644,980	-6.59%	12,625	-6.95%	0.09	-0.31	5.21	-0.16	
Min. 2016	305,683,353,288	4,141,680,189,975,010	-2.15%	12,998	-3.26%	0.21	-0.43	4.66	-0.24	
Min. 2017	319,835,829,193	4,267,569,468,927,310	-0.22%	13,319	-0.69%	0.64	-0.10	1.08	-0.82	
Min. 2018	350,559,704,048	4,739,922,860,030,030	-2.46%	13,413	-5.83%	1.38	-0.13	3.85	-0.10	
Min. 2019	379,255,504,967	5,400,156,184,778,520	-1.67%	13,970	-2.82%	1.53	-0.13	1.46	-0.68	
Min. 2020	384,973,638,792	5,554,636,181,846,580	-4.74%	13,662	-7.39%	0.04	-0.91	0.84	-0.68	
Min. 2021	404,942,133,485	5,778,119,302,701,060	-1.46%	14,084	-1.09%	0.05	-0.27	0.93	-0.65	
Min. 2022	382,201,841,245	5,761,724,630,147,970	-1.33%	14,349	-0.55%	0.09	-0.07	2.29	-0.16	
	Utang Luar Negeri (Rp)			$\Delta$ MtM	Kurs Rp/USD	$\Delta$ MtM	rate PUAB valas (%)		rate PUAS Rp (%)	
	USD	IDR					all	$\Delta$ MtM	all	$\Delta$ MtM
Dev. 2015	3,151,399,355	195,159,003,014,020	2.87%	571	3.06%	0.08	0.31	0.53	0.13	
Dev. 2016	5,980,042,568	42,138,030,697,678	1.11%	253	2.25%	0.13	0.27	0.43	0.13	
Dev. 2017	9,172,080,858	149,125,298,841,629	0.60%	101	0.45%	0.25	0.16	1.28	0.74	
Dev. 2018	6,656,021,762	231,473,047,149,499	1.42%	540	2.31%	0.32	0.09	0.77	0.08	
Dev. 2019	7,085,263,064	70,417,787,460,369	1.05%	153	1.36%	0.34	0.06	1.74	0.73	
Dev. 2020	7,980,515,026	185,692,809,205,609	3.76%	683	5.62%	0.56	0.47	0.88	0.72	
Dev. 2021	3,837,362,481	70,770,203,409,794	0.92%	142	1.08%	0.01	0.22	0.69	0.67	
Dev. 2022	7,955,909,448	112,353,243,749,973	0.95%	534	0.97%	1.47	0.81	1.01	0.13	

Lampiran 5. Simulasi Hedging Syariah untuk ULN Indonesia Tenor 3 bulan (2015-2022)

A	B	BUK		D	BUS		E	F		G		H	I		J	K	L	M
		Uang Luar Negeri (USD)	Rate PUAB Valas (USD)		UIN (Syariah Rp)	PUAS		UIN* (Bunga Valas) (Rp)	Cost of Premium (Rp)	Sisa Rekening Setelah dipotong biaya (Rp)	(USD)		No Hedging	Profit / (Loss) (USD)				
Jan-15	294,973,937,516	295,101,219,322	3,724,039,143,644,980	3,801,871,561,147,150	3,795,886,984,139,200	3,718,054,566,037,020	5,984,577,607,958	3,787,775,445,772,560	294,499,371,567	284,625,431,339	9,873,940,228	1	129,190,633,941,427					
Feb-15	295,084,500,290	295,173,027,641	3,795,671,952,957,600	3,869,940,600,837,140	3,862,943,893,652,100	7,886,071,085,086	3,787,775,445,772,560	294,470,593,623	293,396,610,726	1,073,982,897	1	13,894,116,743,066						
Mar-15	294,092,464,186	294,210,101,172	3,847,905,801,408,510	3,936,279,371,314,190	3,906,196,078,656,850	130,083,292,457,342	3,717,822,308,951,170	294,499,371,567	293,396,610,726	9,873,940,228	1	129,190,633,941,427						
Apr-15	295,594,414,593	295,712,652,359	3,824,104,941,594,510	3,898,547,517,790,880	3,906,659,850,317,570	-8,112,332,526,689	3,824,104,941,594,510	294,470,593,623	293,396,610,726	1,073,982,897	1	13,894,116,743,066						
May-15	298,208,285,905	299,307,688,667	3,999,629,665,090,660	4,015,401,875,649,230	3,977,088,105,307,720	38,363,770,341,514	3,901,265,894,749,140	287,379,029,833	291,265,294,180	(3,886,264,347)	0	(51,341,438,283,065)						
Jun-15	300,128,228,991	300,258,284,496	4,001,309,548,100,290	4,070,798,957,254,330	4,047,781,933,296,440	23,017,023,957,888	3,978,292,524,144,390	295,594,414,593	286,836,554,275	8,757,860,318	1	116,759,793,764,384						
Jul-15	299,993,299,994	300,103,297,537	4,044,209,677,212,830	4,123,341,379,895,970	4,209,948,954,549,610	-86,207,574,652,641	4,044,209,677,212,830	295,304,359,606	292,235,714,345	3,068,645,260	1	41,388,406,751,990						
Aug-15	299,342,423,575	299,482,116,706	4,198,876,175,493,190	4,279,074,710,445,110	4,389,539,384,566,840	-110,434,674,121,724	4,198,876,175,493,190	298,401,779,489	285,257,685,043	13,144,094,445	1	184,372,212,786,803						
Sep-15	297,515,949,445	297,654,189,941	4,360,682,476,812,760	4,461,704,954,192,260	4,059,705,496,008,430	401,999,457,589,821	4,358,683,019,228,940	299,993,299,994	275,923,427,524	24,069,872,470	1	352,792,120,792,936						
Oct-15	298,662,452,199	298,881,471,331	4,073,457,185,548,900	4,152,753,818,710,920	4,136,519,563,222,530	16,234,255,538,398	4,057,222,930,010,510	307,858,066,977	307,858,066,977	-	0	-						
Nov-15	299,999,525,519	300,309,450,933	4,151,163,033,176,400	4,234,324,665,941,030	4,142,768,875,625,310	91,555,790,315,716	4,059,607,242,860,680	290,247,306,931	313,078,213,643	(24,830,906,712)	0	(943,659,748,890,734)						
Dec-15	305,518,099,945	305,731,922,587	4,214,621,616,938,490	4,309,169,648,995,810	4,233,164,200,136,270	76,105,448,857,538	4,138,616,188,080,950	297,472,170,248	295,285,044,259	2,187,125,989	1	30,171,403,020,088						
Jan-16	305,683,353,288	305,938,468,306	4,232,491,709,624,530	4,304,867,317,859,110	4,098,313,682,957,240	206,553,694,900,868	4,055,938,074,722,660	294,281,061,461	299,809,550,280	(5,528,488,819)	0	(76,547,456,181,183)						
Feb-16	309,195,982,828	309,577,324,540	4,141,680,189,975,010	4,213,469,313,267,910	4,109,948,560,389,090	118,520,752,678,822	4,088,159,437,296,190	308,967,240,618	314,641,4016,266	(5,674,165,648)	0	(76,015,448,857,538)						
Mar-16	313,184,719,245	313,487,034,316	4,157,973,092,692,590	4,224,777,860,381,850	4,139,282,801,108,350	85,495,059,273,499	4,072,478,033,419,090	308,249,327,713	318,807,751,594	(15,558,023,840)	0	(206,553,634,901,688)						
Apr-16	316,194,438,498	316,573,871,824	4,175,031,365,929,370	4,240,022,687,525,670	4,310,153,264,888,290	-70,130,577,362,616	4,175,031,365,929,370	305,828,494,191	313,688,599,665	(7,840,015,474)	0	(103,520,752,678,822)						
May-16	311,818,140,702	312,213,110,347	4,245,403,985,660,400	4,315,170,124,491,420	4,114,968,794,374,590	200,201,330,116,881	4,045,202,655,549,570	308,427,600,229	303,596,481,285	3,031,118,944	1	41,268,684,420,476						
Jun-16	321,936,336,130	322,333,990,944	4,243,120,910,189,780	4,321,335,727,300,950	4,220,633,421,024,480	100,702,351,276,473	4,142,418,558,913,310	316,770,209,858	316,770,209,858	-	0	-						
Jul-16	322,064,066,542	322,462,001,693	4,216,975,947,296,350	4,284,728,694,182,920	4,288,744,622,511,610	-4,015,928,328,690	4,216,975,947,296,350	308,935,993,061	324,225,140,191	(15,289,547,130)	0	(200,200,330,116,633)						
Aug-16	321,105,438,062	321,629,908,275	4,270,702,299,629,370	4,337,182,898,710,270	4,180,945,547,753,170	156,637,351,007,096	4,114,064,948,622,280	316,360,054,904	319,031,647,383	(2,671,592,479)	0	(35,532,179,966,244)						
Sep-16	324,929,755,213	325,438,811,829	4,223,436,558,257,070	4,289,044,012,340,000	4,247,300,933,185,300	4,179,079,156,700	4,181,697,879,100,370	324,432,677,896	324,432,677,896	-	0	-						
Oct-16	327,357,291,274	327,862,317,697	4,207,085,008,414,340	4,274,819,077,049,810	4,378,981,614,921,610	-104,162,537,871,803	4,207,085,008,414,340	316,515,229,160	327,231,805,963	(10,716,576,808)	0	(139,862,043,861,614)						
Nov-16	314,670,915,273	315,415,656,439	4,267,881,633,843,240	4,334,460,577,175,200	4,237,924,491,191,940	96,536,085,988,256	4,171,345,537,859,990	321,718,562,787	311,394,010,046	10,324,552,740	1	140,031,908,817,735						
Dec-16	316,597,546,215	317,272,956,318	4,253,804,657,815,920	4,340,015,088,880,990	4,233,373,056,148,370	106,642,042,732,617	4,147,162,615,083,300	322,357,912,274	313,120,348,944	9,236,942,330	1	124,107,557,140,412						

A	B	C		D	E	F		G		H	I		J	K	L	M
		BUK	Rate PUAB Valas (USD)			UIN (Syariah Rp)	BUS	PUAS	UIN* (Bunga Valas) (Rp)		Cost of Premium (Rp)	Sisa Rekening Setelah dipotong biaya (Rp)				
	Utang Luar Negeri (USD)															
Jan-17	319,835,829,193	320,592,773,989	4,267,569,468,927,310	4,282,932,719,015,450	4,278,951,754,433,060	4,278,951,754,433,060	3,900,964,582,387	4,263,588,504,344,920	312,634,262,749	319,835,223,851	(7,294,961,102)	0	(96,556,085,983,256)			
Feb-17	320,934,085,783	321,928,931,294	4,283,506,575,601,230	4,304,495,757,821,670	4,288,415,293,771,940	4,288,415,293,771,940	16,080,464,049,735	4,267,426,111,551,490	310,811,857,535	318,708,672,946	(7,896,815,412)	0	(105,398,795,302,479)			
Mar-17	325,437,445,333	326,435,453,499	4,335,152,209,281,990	4,404,948,159,851,430	4,350,405,288,778,120	4,350,405,288,778,120	54,542,871,073,315	4,280,609,338,208,680	320,065,098,134	320,364,046,913	(298,848,779)	0	(3,980,964,582,387)			
Apr-17	327,728,509,605	328,755,392,269	4,367,637,847,508,200	4,418,302,446,539,290	4,379,350,580,410,110	4,379,350,580,410,110	38,951,866,129,182	4,328,665,981,379,010	320,353,285,155	321,415,665,611	(1,062,380,456)	0	(14,158,344,338,804)			
May-17	331,228,862,926	332,586,901,264	4,412,299,683,035,060	4,481,278,634,746,510	4,429,724,937,932,980	4,429,724,937,932,980	51,553,695,813,533	4,360,745,986,221,530	321,342,942,588	325,437,445,333	(4,094,502,746)	0	(54,542,871,073,315)			
Jun-17	332,795,460,770	334,071,176,703	4,432,502,741,999,410	4,511,844,541,081,200	4,450,830,287,217,220	4,450,830,287,217,220	61,014,253,863,979	4,371,488,488,135,430	325,000,924,490	327,925,358,323	(2,924,533,834)	0	(38,951,866,129,182)			
Jul-17	337,056,388,499	338,337,202,775	4,490,602,263,973,760	4,555,416,623,317,120	4,517,139,994,254,570	4,517,139,994,254,570	38,276,629,062,543	4,452,325,694,911,220	327,407,912,473	331,179,440,061	(3,771,227,589)	0	(50,244,065,163,643)			
Aug-17	338,709,775,976	339,985,582,799	4,521,114,219,055,440	4,572,309,686,886,960	4,587,085,483,121,850	4,587,085,483,121,850	-14,775,796,234,895	4,522,114,219,055,440	328,214,467,162	331,997,808,554	(3,783,341,391)	0	(50,511,390,914,783)			
Sep-17	341,026,313,958	342,310,846,407	4,601,127,027,914,610	4,662,475,388,286,800	4,645,842,807,432,290	4,645,842,807,432,290	16,632,580,854,510	4,594,494,447,060,100	334,183,414,765	332,834,439,962	1,348,974,802	1	18,200,368,032,706			
Oct-17	338,289,634,350	339,588,652,803	4,591,144,769,388,730	4,650,370,536,923,970	4,589,201,053,977,840	4,589,201,053,977,840	61,169,482,946,134	4,529,975,286,452,600	338,709,775,976	333,194,386,904	5,515,389,072	1	74,854,860,490,684			
Nov-17	344,164,055,546	345,976,652,905	4,651,033,046,645,670	4,712,736,751,731,170	4,687,291,693,556,770	4,687,291,693,556,770	25,445,059,174,396	4,625,387,988,471,270	339,795,540,399	340,471,443,105	(677,602,706)	0	(9,157,122,965,737)			
Dec-17	349,164,913,988	350,771,072,592	4,730,486,254,709,700	4,798,447,573,302,360	4,798,447,573,302,360	4,798,447,573,302,360	99,555,177,220,968	4,636,931,077,488,730	335,206,103,778	338,879,891,453	(3,673,787,675)	0	(49,772,475,417,691)			
Jan-18	353,382,732,556	355,043,651,493	4,799,922,860,030,030	4,807,387,762,071,130	4,866,383,331,011,040	4,866,383,331,011,040	-99,195,568,939,913	4,799,922,860,030,030	344,859,569,184	346,755,613,707	(1,897,044,522)	0	(25,445,058,174,397)			
Feb-18	352,019,718,739	353,991,029,164	4,825,134,284,761,780	4,887,056,841,416,220	4,869,300,597,885,500	4,869,300,597,885,500	17,556,244,230,721	4,807,578,040,531,060	345,704,247,930	345,114,631,554	589,616,376	1	8,081,871,670,532			
Mar-18	353,904,053,892	355,885,916,594	4,868,304,165,340,770	4,940,517,343,793,320	4,998,828,864,574,550	4,998,828,864,574,550	1,888,479,218,775	4,866,415,686,122,000	353,382,732,556	344,571,304,160	8,811,448,995	1	121,210,284,126,616			
Apr-18	352,991,269,204	354,979,786,687	4,898,459,842,739,070	4,963,935,927,637,020	4,952,323,004,067,990	4,952,323,004,067,990	-120,344,632,164,906	4,886,846,924,170,050	350,738,895,494	347,707,305,957	3,031,589,537	1	42,069,368,003,194			
May-18	354,313,316,931	356,592,732,603	4,943,025,084,497,550	5,016,017,088,245,300	5,136,361,720,410,200	5,136,361,720,410,200	11,612,918,569,023	4,943,025,084,497,550	353,766,769,855	348,957,362,579	4,809,407,276	1	67,096,040,902,903			
Jun-18	350,559,704,048	352,803,286,154	5,049,461,977,108,730	5,132,104,838,134,080	5,084,953,763,337,610	5,084,953,763,337,610	47,151,074,736,465	5,002,310,902,312,270	352,154,422,716	340,076,356,758	12,078,065,968	1	173,972,462,207,629			
Jul-18	353,044,855,440	355,363,183,324	5,089,435,501,455,710	5,172,903,530,779,870	5,227,147,789,879,150	5,227,147,789,879,150	-54,844,259,099,275	5,088,435,501,455,710	354,313,316,931	342,956,017,796	11,357,299,134	1	163,692,752,421,896			
Aug-18	356,633,868,977	359,249,183,966	5,246,440,845,791,480	5,340,876,781,015,720	5,363,231,067,431,920	5,363,231,067,431,920	-2,354,286,416,196	5,246,440,845,791,480	347,286,233,151	343,243,965,543	4,042,267,608	1	59,465,798,781,004			
Sep-18	354,054,737,231	356,627,534,988	5,285,683,172,114,780	5,386,111,152,384,960	5,430,367,475,258,490	5,430,367,475,258,490	44,256,322,873,337	5,285,683,172,114,780	353,044,855,440	340,942,353,906	12,202,501,534	1	182,171,145,407,004			
Oct-18	355,060,487,692	357,605,087,853	5,416,506,046,079,740	5,513,014,215,187,510	5,127,699,354,729,510	5,127,699,354,729,510	385,314,860,457,994	5,021,191,185,621,740	356,633,868,977	344,548,554,922	12,085,314,006	1	184,023,076,366,555			
Nov-18	367,788,404,952	370,681,693,895	5,273,718,225,391,450	5,377,786,265,099,170	5,367,941,609,297,660	5,367,941,609,297,660	9,944,655,741,515	5,263,773,569,649,930	368,628,888,785	368,628,888,785	-	0	-			
Dec-18	372,351,912,672	375,318,316,243	5,393,028,047,397,230	5,497,891,531,394,470	5,494,984,537,308,160	5,494,984,537,308,160	62,906,993,886,301	5,329,121,053,510,930	350,177,221,956	373,351,705,413	(23,174,483,457)	0	(335,589,694,940,295)			

A	B	C	D	E	F		G		H		I	J	K	L	M			
					BUS		Cost of Premium		Sisa Rekening Setelah dipotong biaya							No Hedging	Profit if Hedge	
					Rate PUJAB Valas (USD)	UJUN (Syariah Rp)	UJUN* (Bunga Valas) (Rp)	(Rp)	(Rp)	(Rp)							(USD)	Profit (Loss) if hedging (Dn)
	Utang Luar Negeri (USD)	Rate PUJAB Valas (USD)	UJUN (Syariah Rp)	PUAS	UJUN* (Bunga Valas) (Rp)	Cost of Premium (Rp)	Sisa Rekening Setelah dipotong biaya (Rp)	(USD)	No Hedging	Profit (Loss) if hedging (Dn)								
Jan-19	379,255,504,967	382,238,981,606	5,491,988,967,420,720	5,600,740,546,975,650	5,378,866,949,154,390	221,873,597,821,256	5,270,125,369,599,460	367,094,885,951	364,181,909,080	2,912,976,871	1	42,882,818,663,513						
Feb-19	383,751,860,772	386,783,500,472	5,400,156,184,778,520	5,505,099,219,989,380	5,536,805,809,252,900	-31,706,589,283,519	5,400,156,184,778,520	378,703,883,848	383,174,250,099	(4,470,366,251)	0	(62,906,993,886,301)						
Mar-19	384,456,616,480	387,468,193,309	5,503,496,464,910,210	5,614,300,193,737,070	5,555,370,609,612,710	78,923,584,124,358	5,424,566,880,785,860	374,511,467,425	383,653,438,171	(9,141,970,747)	0	(130,867,311,237,070)						
Apr-19	386,083,223,355	389,052,648,819	5,514,442,048,848,030	5,623,995,630,885,150	5,624,534,443,982,050	-538,513,096,902	5,514,442,048,848,030	383,751,860,772	378,003,372,867	5,748,487,915	1	82,122,888,705,131						
May-19	383,016,716,102	385,978,712,040	5,537,772,664,691,600	5,647,095,239,207,980	5,485,529,455,515,360	161,565,783,692,619	5,375,706,880,998,980	379,712,087,413	380,680,394,612	(968,307,199)	0	(13,998,817,176,690)						
Jun-19	386,802,986,294	389,794,262,721	5,497,244,041,205,590	5,605,772,990,285,390	5,494,539,927,315,280	111,883,062,970,104	5,388,060,978,235,490	388,013,090,969	388,013,090,969	-	0	-						
Jul-19	391,352,016,771	394,000,165,418	5,516,498,028,408,590	5,618,369,358,666,530	5,637,354,366,802,800	-18,985,008,136,266	5,516,498,028,408,590	381,363,995,531	392,825,813,329	(11,461,817,799)	0	(161,565,783,692,619)						
Aug-19	389,379,580,171	391,754,795,610	5,571,243,033,084,370	5,603,741,950,777,360	5,580,547,063,462,760	23,194,887,314,600	5,548,048,145,769,770	382,098,537,048	384,207,718,843	(2,109,181,795)	0	(30,178,173,115,825)						
Sep-19	391,767,621,356	394,065,991,402	5,580,729,766,220,680	5,607,889,317,749,620	5,561,847,402,642,230	46,041,915,107,389	5,534,687,851,113,290	391,352,016,771	387,258,548,853	4,093,467,918	1	58,311,450,988,927						
Oct-19	398,332,027,148	400,363,520,487	5,622,658,231,167,940	5,713,385,966,748,700	5,673,951,812,335,110	38,634,154,413,589	5,583,624,076,754,350	393,088,291,467	394,731,687,196	(1,643,395,729)	0	(23,194,887,314,600)						
Nov-19	399,325,407,387	401,441,832,046	5,659,239,673,485,150	5,716,963,918,154,700	5,608,142,393,681,350	108,821,524,473,330	5,550,418,149,011,800	392,141,692,724	393,785,617,148	(1,643,924,423)	0	(23,297,696,929,370)						
Dec-19	401,508,132,594	403,542,440,466	5,609,068,612,341,770	5,675,629,559,874,880	5,513,196,821,647,420	162,482,738,227,472	5,446,635,874,114,300	399,886,762,831	402,437,954,987	(2,751,192,156)	0	(38,434,154,413,589)						
Jan-20	408,478,722,676	410,575,580,119	5,580,636,309,199,840	5,621,933,017,887,920	5,844,132,807,415,190	-22,199,789,527,269	5,580,636,309,199,840	406,266,882,522	414,232,152,941	(7,965,270,420)	0	(108,821,524,473,350)						
Feb-20	404,628,965,071	404,819,032,783	5,759,488,688,815,790	5,789,027,872,203,330	6,625,673,109,562,420	-836,645,237,339,094	5,759,488,688,815,790	398,670,463,630	394,061,304,787	4,609,158,843	1	65,606,766,988,940						
Mar-20	386,882,187,174	386,987,083,831	6,332,100,757,474,180	6,369,584,197,397,710	5,865,563,229,624,230	504,020,967,773,484	5,828,079,789,700,700	408,478,722,676	340,968,797,532	67,509,925,144	1	1,104,934,944,888,640						
Apr-20	397,477,226,086	397,530,223,049	6,024,562,315,781,180	6,112,660,920,220,920	5,856,812,776,183,760	255,848,146,037,156	5,788,714,169,744,030	404,628,965,071	379,988,697,553	24,640,267,517	1	373,472,534,760,221						
May-20	400,275,828,816	400,382,569,037	5,897,163,785,948,470	5,957,612,452,004,680	5,726,271,502,389,700	231,340,949,654,976	5,665,922,836,293,500	395,579,976,223	429,790,318,162	(34,210,341,938)	0	(504,020,967,773,484)						
Jun-20	405,316,107,910	405,410,681,669	5,796,830,975,330,490	5,844,171,761,629,020	5,940,482,718,490,420	-96,310,956,861,400	5,796,830,975,330,490	403,350,177,685	421,239,149,474	(17,888,976,789)	0	(255,848,146,037,156)						
Jul-20	406,398,698,802	406,479,978,542	5,954,960,133,548,260	5,991,483,889,084,030	5,515,909,607,689,320	75,574,281,334,705	5,879,385,852,213,560	396,162,972,752	402,461,187,876	(6,298,215,124)	0	(92,287,746,219,162)						
Aug-20	409,579,834,071	409,689,055,360	5,961,024,905,065,150	6,013,283,223,399,560	6,111,741,327,857,470	-98,468,104,457,913	5,961,024,905,065,150	405,316,107,910	398,298,129,403	7,017,978,507	1	102,139,659,093,350						
Sep-20	405,255,232,551	405,646,890,121	6,049,625,419,196,360	6,065,564,370,370,110	5,588,952,815,874,380	107,611,554,495,533	5,942,013,864,700,630	403,970,444,703	399,179,523,632	4,790,921,071	1	71,470,960,337,340						
Oct-20	410,085,877,451	410,195,233,685	6,024,161,539,754,650	6,069,539,529,764,180	5,795,238,261,500,980	273,301,268,263,200	5,795,860,771,491,450	409,579,834,071	405,784,944,525	3,791,889,546	1	55,702,857,483,616						
Nov-20	412,791,505,958	412,901,583,693	5,831,918,396,170,440	5,883,044,880,776,860	5,823,976,837,984,490	59,668,042,792,378	5,772,850,353,378,660	420,584,220,321	428,201,119,705	(7,616,899,384)	0	(107,611,554,495,533)						
Dec-20	414,064,464,926	414,169,043,808	5,840,379,277,781,980	5,892,535,332,663,500	5,833,156,812,988,280	59,365,519,675,222	5,780,982,758,106,760	407,717,849,804	427,094,047,483	(19,376,197,679)	0	(273,301,268,263,200)						

A	B	C	D	E	F		G		H	I		J	K	L	M		
					BUS		Cost of Premium	Sisa Rekening Setelah dipotong biaya		No Hedging	Profit if Hedge						
					UJIN (Syariah Rp)	PUAS		(Rp)			(Rp)					(USD)	(USD)
BUK		Rate PUAB Valas (USD)	UJIN (Syariah Rp)	PUAS	UJIN* (Bunga Valas) (Rp)	Cost of Premium (Rp)	Sisa Rekening Setelah dipotong biaya (Rp)	Sisa Rekening Setelah dipotong biaya (USD)	No Hedging	Profit / (Loss) (USD)	Profit / (Loss) if hedging (IDR)						
Jan-21	417,248,670,829	417,340,701,978	5,876,530,279,958,730	5,936,777,449,010,290	5,938,340,848,440,910	-2,063,399,480,616	5,876,530,279,958,730	409,887,131,027	414,081,113,048	(4,193,982,022)	0	(59,687,042,792,378)					
Feb-21	418,807,581,758	418,828,086,660	5,959,213,080,839,050	5,980,604,977,138,490	6,104,620,078,807,170	-124,015,151,668,672	5,959,213,080,839,050	410,464,559,549	410,456,060,003	8,492,547	1	120,840,444,452					
Mar-21	412,066,473,446	412,178,280,816	6,004,632,651,054,500	6,044,737,199,568,210	5,963,395,366,842,310	81,341,832,725,933	5,923,290,818,328,990	417,248,670,829	403,275,478,998	13,973,191,831	1	203,617,351,364,659					
Apr-21	413,992,204,951	414,104,534,856	5,989,639,221,233,930	6,040,310,033,001,140	5,925,835,893,505,180	114,474,139,495,952	5,875,165,081,737,880	419,807,581,758	411,889,709,347	6,918,372,411	1	100,095,012,040,237					
May-21	412,653,437,282	412,519,539,820	5,902,208,687,506,290	5,920,571,992,999,110	5,979,883,249,225,050	-59,311,256,625,999	5,902,208,687,506,290	413,926,681,924	419,610,946,964	(5,684,265,040)	0	(81,341,832,725,933)					
Jun-21	412,245,341,737	412,341,559,799	5,975,908,473,815,380	6,021,682,348,056,680	5,975,241,543,054,170	46,440,805,002,512	5,929,467,668,812,870	410,563,597,606	413,197,551,134	(2,628,953,528)	0	(38,109,310,341,286)					
Jul-21	412,382,896,383	412,678,918,176	5,978,738,751,486,210	6,008,383,768,219,170	5,931,846,769,858,410	76,736,998,670,758	5,902,001,752,815,460	412,453,437,282	407,301,682,942	5,151,754,340	1	74,654,072,448,053					
Aug-21	414,021,282,640	414,142,314,861	5,951,141,916,660,900	5,975,828,764,938,870	5,925,134,098,718,840	50,694,666,220,033	5,900,447,250,440,870	412,513,403,980	415,744,293,434	(3,230,889,453)	0	(46,440,805,002,512)					
Sep-21	414,243,695,328	414,332,329,671	5,926,584,549,063,330	5,960,005,963,937,740	5,888,104,748,999,540	77,301,214,993,198	5,849,083,334,125,130	412,525,459,762	417,889,057,908	(5,368,598,146)	0	(76,736,998,670,758)					
Oct-21	412,699,848,841	412,793,119,007	5,859,925,153,693,570	5,886,713,769,058,230	5,919,453,326,558,270	-33,279,557,300,044	5,859,925,153,693,570	415,533,718,603	419,124,016,949	(3,570,298,346)	0	(50,694,666,220,033)					
Nov-21	406,389,215,206	406,656,980,075	5,830,489,346,052,020	5,883,889,105,900,050	5,802,588,448,691,030	81,300,667,209,023	5,749,188,688,842,990	411,936,286,649	413,290,414,858	(1,354,128,209)	0	(19,418,198,320,729)					
Dec-21	404,942,133,485	405,063,616,125	5,778,119,302,701,060	5,820,714,931,558,070	5,825,219,863,497,910	-4,504,992,139,833	5,778,119,302,701,060	412,699,848,841	410,675,250,802	2,024,598,039	1	28,888,989,418,871					
Jan-22	404,081,423,652	404,216,117,460	5,811,094,953,540,020	5,867,075,168,259,120	5,808,989,824,016,600	58,085,344,242,522	5,753,009,609,297,490	402,914,618,322	405,430,055,884	(2,515,417,562)	0	(36,174,219,566,909)					
Feb-22	406,798,048,015	407,326,885,478	5,846,094,748,025,560	5,898,124,991,382,990	5,844,733,479,717,490	53,391,511,565,499	5,792,703,256,460,060	404,942,133,485	402,068,005,198	2,874,128,287	1	41,304,097,615,495					
Mar-22	402,032,292,307	402,659,728,022	5,768,632,221,311,590	5,817,473,307,452,030	5,805,259,598,617,770	12,213,708,884,258	5,756,418,512,477,330	400,934,532,671	404,982,573,945	(4,048,041,274)	0	(58,065,344,242,522)					
Apr-22	399,620,240,682	400,832,422,078	5,761,724,630,147,970	5,814,348,381,769,990	5,829,706,746,707,970	-15,358,364,937,973	5,761,724,630,147,970	403,700,833,867	405,471,961,994	(1,771,130,127)	0	(25,536,154,166,674)					
May-22	396,032,262,940	398,784,579,981	5,768,197,843,106,880	5,812,228,419,975,930	5,821,153,443,558,200	-108,925,023,592,269	5,768,197,843,106,880	401,172,109,455	396,633,128,528	4,538,974,927	1	66,014,851,339,488					
Jun-22	393,124,370,319	396,439,719,176	5,837,110,650,501,210	5,891,590,349,905,890	5,929,945,319,429,770	-38,554,969,523,874	5,837,110,650,501,210	399,620,240,682	388,047,186,836	11,573,053,845	1	171,836,703,493,107					
Jul-22	391,005,674,205	394,668,551,986	5,848,662,874,758,730	5,904,801,038,356,420	5,866,769,710,796,150	43,040,327,590,269	5,805,622,547,198,460	396,032,262,940	385,626,276,448	10,976,985,592	1	164,193,750,464,478					
Aug-22	390,335,116,346	394,283,553,690	5,803,259,864,576,460	5,867,289,165,082,280	6,011,641,343,109,080	-144,352,178,026,793	5,803,259,864,576,460	399,124,370,319	392,410,800,034	713,570,286	1	10,614,357,998,622					
Sep-22	386,993,526,671	391,669,858,485	5,900,490,301,145,740	5,975,033,161,950,210	6,078,007,740,570,820	-102,974,578,620,611	5,900,490,301,145,740	390,293,952,753	383,594,338,215	6,699,614,538	1	102,149,022,863,788					
Oct-22	382,201,841,245	387,170,465,181	5,940,181,016,626,180	6,026,109,653,435,030	6,092,901,610,552,600	-66,191,957,117,571	5,940,181,016,626,180	390,135,116,946	373,392,990,116	16,749,026,831	1	260,220,123,003,194					
Nov-22	385,090,519,393	390,066,696,043	6,060,169,502,108,830	6,163,192,383,644,680	6,136,611,125,459,980	26,583,258,184,696	6,033,588,243,924,130	386,993,526,671	374,943,782,242	12,049,744,428	1	189,626,828,068,565					
Dec-22	387,981,729,060	393,581,598,672	6,103,340,579,683,470	6,209,142,150,455,950	5,895,458,766,515,190	314,283,383,940,761	5,789,057,057,742,710	382,200,841,245	377,609,879,641	4,591,961,604	1	72,256,147,995,260					

### Lampiran 6. Cost Saving if Hedging

Cost Saving if Hedging				
Period	Cost Saving (Rp)	Persentase Cost Saving thd total ULN	Hedge/ No Hedge	IDR/USD
Mar-15	129,190,633,941,427	3.47%	Hedge	13,084.00
Apr-15	13,894,116,743,066	0.37%	Hedge	12,937.00
May-15	-51,341,438,283,065	-1.33%	No Hedge	13,211.00
Jun-15	116,759,793,764,384	3.05%	Hedge	13,332.00
Jul-15	41,368,406,751,990	1.05%	Hedge	13,481.00
Aug-15	184,372,212,786,803	4.61%	Hedge	14,027.00
Sep-15	352,792,120,792,396	8.72%	Hedge	14,657.00
Oct-15	0	0.00%	No Hedge	13,639.00
Nov-15	-343,659,748,890,734	-7.88%	No Hedge	13,840.00
Dec-15	30,171,403,020,268	0.74%	Hedge	13,795.00
Jan-16	-76,547,456,181,183	-1.84%	No Hedge	13,846.00
Feb-16	-76,005,448,857,538	-1.80%	No Hedge	13,395.00
Mar-16	-206,553,634,901,868	-4.88%	No Hedge	13,276.00
Apr-16	-103,520,752,678,822	-2.50%	No Hedge	13,204.00
May-16	41,268,684,420,476	0.99%	Hedge	13,615.00
Jun-16	0	0.00%	No Hedge	13,180.00
Jul-16	-200,201,330,116,831	-4.72%	No Hedge	13,094.00
Aug-16	-35,532,179,966,244	-0.84%	No Hedge	13,300.00
Sep-16	0	0.00%	No Hedge	12,998.00
Oct-16	-139,862,043,861,614	-3.27%	No Hedge	13,051.00
Nov-16	140,031,908,817,735	3.32%	Hedge	13,563.00
Dec-16	124,107,557,140,412	2.95%	Hedge	13,436.00
Jan-17	-96,536,085,983,256	-2.26%	No Hedge	13,343.00
Feb-17	-105,398,795,302,479	-2.48%	No Hedge	13,347.00
Mar-17	-3,980,964,582,387	-0.09%	No Hedge	13,321.00
Apr-17	-14,158,344,338,804	-0.33%	No Hedge	13,327.00
May-17	-54,542,871,073,315	-1.26%	No Hedge	13,321.00
Jun-17	-38,951,866,129,182	-0.89%	No Hedge	13,319.00
Jul-17	-50,244,065,163,643	-1.14%	No Hedge	13,323.00
Aug-17	-50,511,390,914,783	-1.14%	No Hedge	13,351.00
Sep-17	18,200,368,032,706	0.41%	Hedge	13,492.00
Oct-17	74,854,860,490,694	1.66%	Hedge	13,572.00
Nov-17	-9,157,122,965,737	-0.20%	No Hedge	13,514.00
Dec-17	-49,772,475,417,691	-1.08%	No Hedge	13,548.00
Jan-18	-25,445,058,174,397	-0.55%	No Hedge	13,413.00
Feb-18	8,081,871,670,532	0.17%	Hedge	13,707.00
Mar-18	121,210,284,126,616	2.56%	Hedge	13,756.00
Apr-18	42,069,368,003,194	0.87%	Hedge	13,877.00
May-18	67,096,040,902,903	1.38%	Hedge	13,951.00
Jun-18	173,972,462,207,629	3.55%	Hedge	14,404.00
Jul-18	163,692,752,421,896	3.31%	Hedge	14,413.00
Aug-18	59,465,798,781,004	1.18%	Hedge	14,711.00
Sep-18	182,171,145,407,004	3.58%	Hedge	14,929.00
Oct-18	184,023,076,366,555	3.51%	Hedge	15,227.00
Nov-18	0	0.00%	No Hedge	14,339.00
Dec-18	-335,589,694,940,295	-6.21%	No Hedge	14,481.00

Cost Saving if Hedging				
Period	Cost Saving (Rp)	Persentase Cost Saving thd total ULN	Hedge/ No Hedge	IDR/USD
Jan-19	42,182,818,063,513	0.80%	Hedge	14,481.00
Feb-19	-62,906,993,886,301	-1.17%	No Hedge	14,072.00
Mar-19	-130,867,311,237,070	-2.38%	No Hedge	14,315.00
Apr-19	82,122,898,205,131	1.52%	Hedge	14,286.00
May-19	-13,998,817,176,690	-0.25%	No Hedge	14,457.00
Jun-19	0	0.00%	No Hedge	14,212.00
Jul-19	-161,565,783,692,619	-2.92%	No Hedge	14,096.00
Aug-19	-30,178,173,115,825	-0.55%	No Hedge	14,308.00
Sep-19	58,311,450,498,927	1.06%	Hedge	14,245.00
Oct-19	-23,194,887,314,600	-0.42%	No Hedge	14,114.00
Nov-19	-23,297,696,929,370	-0.42%	No Hedge	14,172.00
Dec-19	-38,434,154,413,589	-0.68%	No Hedge	13,970.00
Jan-20	-108,821,524,473,350	-1.92%	No Hedge	13,662.00
Feb-20	65,606,766,968,940	1.17%	Hedge	14,234.00
Mar-20	1,104,934,944,838,640	19.80%	Hedge	16,367.00
Apr-20	373,472,534,760,221	6.48%	Hedge	15,157.00
May-20	-504,020,967,773,484	-8.00%	No Hedge	14,733.00
Jun-20	-255,848,146,037,156	-4.26%	No Hedge	14,302.00
Jul-20	-92,287,746,219,162	-1.56%	No Hedge	14,653.00
Aug-20	102,139,659,193,350	1.76%	Hedge	14,554.00
Sep-20	71,470,960,537,340	1.20%	Hedge	14,918.00
Oct-20	55,702,857,433,616	0.93%	Hedge	14,690.00
Nov-20	-107,611,554,495,533	-1.78%	No Hedge	14,128.00
Dec-20	-273,301,268,263,200	-4.54%	No Hedge	14,105.00
Jan-21	-59,068,042,792,378	-1.01%	No Hedge	14,084.00
Feb-21	120,840,444,452	0.00%	Hedge	14,229.00
Mar-21	203,617,351,364,659	3.46%	Hedge	14,572.00
Apr-21	100,095,012,040,237	1.68%	Hedge	14,468.00
May-21	-81,341,832,725,903	-1.35%	No Hedge	14,310.00
Jun-21	-38,109,310,341,286	-0.64%	No Hedge	14,496.00
Jul-21	74,654,072,148,053	1.26%	Hedge	14,491.00
Aug-21	-46,440,805,002,512	-0.78%	No Hedge	14,374.00
Sep-21	-76,736,998,670,758	-1.28%	No Hedge	14,307.00
Oct-21	-50,694,666,220,033	-0.85%	No Hedge	14,199.00
Nov-21	-19,418,198,520,729	-0.33%	No Hedge	14,340.00
Dec-21	28,888,989,418,871	0.49%	Hedge	14,269.00
Jan-22	-36,174,219,956,909	-0.62%	No Hedge	14,381.00
Feb-22	41,304,097,615,495	0.71%	Hedge	14,371.00
Mar-22	-58,085,344,242,522	-1.00%	No Hedge	14,349.00
Apr-22	-25,536,154,166,674	-0.44%	No Hedge	14,418.00
May-22	66,014,851,339,488	1.14%	Hedge	14,544.00
Jun-22	171,836,703,493,107	2.98%	Hedge	14,848.00
Jul-22	164,193,750,484,478	2.85%	Hedge	14,958.00
Aug-22	10,614,357,998,622	0.18%	Hedge	14,875.00
Sep-22	102,149,022,863,788	1.75%	Hedge	15,247.00
Oct-22	260,220,123,003,194	4.48%	Hedge	15,542.00
Nov-22	189,626,828,068,565	3.21%	Hedge	15,737.00
Dec-22	72,236,147,995,260	1.22%	Hedge	15,731.00
<b>Sum</b>	<b>1,324,858,538,976,120</b>			

<b>Cost Saving Hedging (3Mo)</b>		
	<b>All</b>	<b>All</b>
Blind	1,324,858,538,976,120	0.27%
Selective	5,710,311,905,367,640	2.54%
Max	1,104,934,944,838,640	19.80%
Min	-504,020,967,773,484	-8.00%
# of Hedge	44	46.81%
# of No Hedge	50	53.19%
<b>2015</b>		
Blind	473,547,500,626,536	1.28%
Selective	868,548,687,800,335	3.14%
Max	352,792,120,792,396	8.72%
Min	-343,659,748,890,734	-7.88%
# of Hedge	7	70.00%
# of No Hedge	3	30.00%
<b>2016</b>		
Blind	-532,814,696,185,477	-1.05%
Selective	305,408,150,378,623	2.42%
Max	140,031,908,817,735	3.32%
Min	-206,553,634,901,868	-4.88%
# of Hedge	3	25.00%
# of No Hedge	9	75.00%
<b>2017</b>		
Blind	-380,198,753,347,877	-0.73%
Selective	93,055,228,523,399	1.03%
Max	74,854,860,490,694	1.66%
Min	-105,398,795,302,479	-2.48%
# of Hedge	2	16.67%
# of No Hedge	10	83.33%
<b>2018</b>		
Blind	640,748,046,772,642	1.11%
Selective	1,001,782,799,887,330	2.23%
Max	184,023,076,366,555	3.58%
Min	-335,589,694,940,295	-6.21%
# of Hedge	9	75.00%
# of No Hedge	3	25.00%
<b>2019</b>		
Blind	-301,826,650,998,493	-0.91%
Selective	182,617,166,767,571	1.13%
Max	82,122,898,205,131	1.52%
Min	-161,565,783,692,619	-6.21%
# of Hedge	3	25.00%
# of No Hedge	9	75.00%
<b>2020</b>		
Blind	431,436,516,470,229	0.77%
Selective	1,773,327,723,732,110	5.23%
Max	1,104,934,944,838,640	19.80%
Min	-504,020,967,773,484	-8.00%
# of Hedge	6	50.00%
# of No Hedge	6	50.00%
<b>2021</b>		
Blind	35,566,411,142,671	0.06%
Selective	407,376,265,416,271	1.38%
Max	203,617,351,364,659	3.46%
Min	-81,341,832,725,903	-1.35%
# of Hedge	5	41.67%
# of No Hedge	7	58.33%
<b>2022</b>		
Blind	958,400,164,495,893	-0.13%
Selective	1,078,195,882,862,000	1.42%
Max	260,220,123,003,194	3.46%
Min	-58,085,344,242,522	-4.54%
# of Hedge	9	75.00%
# of No Hedge	3	25.00%



