LAMPIRAN

Lampiran 1 Data Penelitian

Tanggal	ADHI	PTPP	WIKA
01/11/2022	550	890	920
02/11/2022	560	895	910
03/11/2022	555	890	905
04/11/2022	550	870	905
07/11/2022	560	915	945
08/11/2022	555	910	940
09/11/2022	540	915	940
10/11/2022	520	905	925
11/11/2022	535	910	935
14/11/2022	535	920	930
15/11/2022	525	915	925
16/11/2022	520	910	910
17/11/2022	540	935	935
18/11/2022	535	920	930
21/11/2022	535	915	920
22/11/2022	535	905	915
23/11/2022	535	920	920
24/11/2022	545	925	925
25/11/2022	540	925	925

28/11/2022	530	910	900
29/11/2022	525	900	905
30/11/2022	520	890	930
01/12/2022	525	890	905
02/12/2022	520	895	905
05/12/2022	515	890	890
06/12/2022	482	855	865
07/12/2022	486	805	825
08/12/2022	505	850	855
09/12/2022	505	820	820
12/12/2022	500	805	815
13/12/2022	500	780	810
14/12/2022	496	745	795
15/12/2022	500	755	820
16/12/2022	500	740	810
19/12/2022	498	730	805
20/12/2022	492	705	805
21/12/2022	500	715	825
22/12/2022	520	725	835
23/12/2022	520	725	830
26/12/2022	510	720	815
27/12/2022	494	720	810

28/12/2022	484	715	810
29/12/2022	486	735	810
30/12/2022	484	715	800
02/01/2023	484	720	805
03/01/2023	488	730	805
04/01/2023	484	725	800
05/01/2023	454	705	770
06/01/2023	452	695	765
09/01/2023	438	665	730
10/01/2023	416	625	680
11/01/2023	418	605	670
12/01/2023	424	620	680
13/01/2023	428	615	680
16/01/2023	430	625	685
17/01/2023	432	620	680
18/01/2023	422	615	660
19/01/2023	438	635	685
20/01/2023	452	640	675
24/01/2023	452	635	665
25/01/2023	466	650	685
26/01/2023	462	655	680
27/01/2023	486	695	700

30/01/2023	480	675	685
31/01/2023	480	695	690
01/02/2023	472	695	695
02/02/2023	482	700	710
03/02/2023	498	710	735
06/02/2023	500	725	735
07/02/2023	492	720	720
08/02/2023	492	720	720
09/02/2023	490	725	715
10/02/2023	478	710	700
13/02/2023	482	705	700
14/02/2023	482	695	695
15/02/2023	476	695	690
16/02/2023	460	660	670
17/02/2023	468	665	680
20/02/2023	474	665	675
21/02/2023	468	665	660
22/02/2023	458	645	640
23/02/2023	448	640	630
24/02/2023	452	660	635
27/02/2023	450	645	625
28/02/2023	442	640	630

01/03/2023	442	640	630
02/03/2023	450	640	635
03/03/2023	454	645	635
06/03/2023	438	615	605
07/03/2023	432	600	585
08/03/2023	424	600	580
09/03/2023	432	610	580
10/03/2023	424	600	560
13/03/2023	428	615	580
14/03/2023	412	600	555
15/03/2023	414	590	550
16/03/2023	402	560	515
17/03/2023	404	580	525
20/03/2023	402	565	505
21/03/2023	408	580	520
24/03/2023	406	565	515
27/03/2023	406	575	515
28/03/2023	414	580	525
29/03/2023	422	585	515
30/03/2023	424	585	515
31/03/2023	416	580	515
03/04/2023	418	590	515

04/04/2023	416	580	510
05/04/2023	408	575	488
06/04/2023	408	565	488
10/04/2023	400	535	472
11/04/2023	388	555	478
12/04/2023	404	585	510
13/04/2023	404	590	515
14/04/2023	398	570	510
17/04/2023	404	585	530
18/04/2023	404	585	545
26/04/2023	420	630	560
27/04/2023	434	645	600
28/04/2023	436	650	605
02/05/2023	414	630	585
03/05/2023	402	590	545
04/05/2023	408	600	565
05/05/2023	392	575	535
08/05/2023	388	550	520
09/05/2023	400	580	525
10/05/2023	396	575	500
11/05/2023	384	560	472
12/05/2023	384	565	462

15/05/2023	384	560	456
16/05/2023	382	545	442
17/05/2023	370	530	424
19/05/2023	346	505	396
22/05/2023	346	505	402
23/05/2023	348	505	406
24/05/2023	344	505	398
25/05/2023	342	510	394
26/05/2023	342	510	390
29/05/2023	334	510	380
30/05/2023	342	515	392
31/05/2023	338	510	366

Lampiran 2 *RMSE ARIMA*

AR : 0, MA : , DF : 1

(0,1,1)

MetodeStatistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,033	0,972	9,593	1,609	7,234	11,697	17	0,818	0
PTPP-Model_2	1	0,015	0,982	16,879	1,879	12,538	9,097	17	0,937	0
WIKA-Model_3	1	0,006	0,99	16,209	1,91	12,023	14,784	17	0,611	0

(1,1,0)

Metode Statistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,033	0,972	9,593	1,608	7,231	11,7	17	0,818	0
PTPP-Model_2	1	0,016	0,982	16,869	1,882	12,553	9,088	17	0,937	0
WIKA-Model_3	1	0,006	0,99	16,208	1,911	12,025	14,906	17	0,602	0

(1,1,1)

Metode Statistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,035	0,972	9,618	1,61	7,242	11,639	16	0,768	0
PTPP-Model_2	1	0,015	0,982	16,936	1,873	12,502	8,898	16	0,918	0
WIKA-Model_3	1	0,01	0,99	16,237	1,915	12,061	14,411	16	0,568	0

(0,1,0)

MetodeStatistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,033	0,972	9,56	1,606	7,22	11,703	18	0,862	0
PTPP-Model_2	1	0,008	0,982	16,875	1,881	12,556	9,136	18	0,957	0
WIKA-Model_3	1	0,005	0,99	16,156	1,909	12,025	14,156	18	0,719	0

Lampiran 3 *RMSE ARIMA Seasonal*

(0,0,1)(0,1,0)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-Squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,453	0,92	15,553	2,747	12,171	111,333	17	0	0
PTPP-Model_2	1	0,434	0,944	28,767	3,348	22,09	133,036	17	0	0
WIKA-Model_3	1	0,452	0,968	29,054	3,595	22,368	163,853	17	0	0

(0,0,1)(0,1,1)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-Squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,501	0,927	14,919	2,606	11,521	252,169	16	0	0
PTPP-Model_2	1	0,438	0,945	28,771	3,284	21,771	151,272	16	0	0
WIKA-Model_3	1	0,518	0,972	27,365	3,304	20,994	300,012	16	0	0

(0,0,1)(1,1,0)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-	1	0,467	0,922	15,416	2,687	11,915	147,276	16	0	0

Model_1										
PTPP-Model_2	1	0,437	0,945	28,794	3,299	21,853	146,591	16	0	0
WIKA-Model_3	1	0,455	0,968	29,098	3,581	22,231	181,051	16	0	0

(0,0,1)(1,1,1)

MetodeStatistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,454	0,92	15,654	2,74	12,139	110,261	15	0	0
PTPP-Model_2	1	0,496	0,951	27,336	3,036	20,188	146,360	15	0	0
WIKA-Model_3	1	0,577	0,975	25,716	3,027	19,156	203,68	15	0	0

(1,0,0)(0,1,0)

MetodeStatistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,627	0,945	12,913	2,317	10,3	42,122	17	0,001	0
PTPP-Model_2	1	0,656	0,968	21,776	2,669	17,458	37,88	17	0,003	0
WIKA-Model_3	1	0,712	0,981	22,105	2,61	16,555	36,064	17	0,004	0

(1,0,0)(0,1,1)

MetodeStatistis										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,786	0,967	9,986	1,613	7,275	12,444	6	0,713	0
PTPP-Model_2	1	0,806	0,98	17,109	1,956	13,153	8,888	6	0,918	0
WIKA-Model_3	1	0,833	0,989	17,297	2,038	13,132	18,246	6	0,31	0

(1,0,0)(1,1,0)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,627	0,945	12,913	2,317	10,3	42,122	17	0,001	0
PTPP-Model_2	1	0,656	0,968	21,776	2,669	17,458	37,88	17	0,003	0
WIKA-Model_3	1	0,712	0,981	22,105	2,61	16,555	36,064	17	0,004	0

(1,0,0)(1,1,1)

MetodeStatistis										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,786	0,967	9,986	1,613	7,275	12,444	6	0,713	0
PTPP-Model_2	1	0,806	0,98	17,109	1,956	13,153	8,888	6	0,918	0
WIKA-Model_3	1	0,833	0,989	17,297	2,038	13,132	18,246	6	0,31	0

(1,0,1)(0,1,0)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,699	0,955	11,719	1,953	8,736	32,923	6	0,008	0
PTPP-Model_2	1	0,725	0,974	19,939	2,34	15,507	25,348	6	0,064	0
WIKA-Model_3	1	0,76	0,984	20,47	2,391	15,166	31,407	6	0,012	0

(1,0,1)(0,1,1)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,627	0,945	13,008	2,319	10,311	42,121	15	0	0
PTPP-Model_2	1	0,807	0,98	17,183	1,956	13,163	9,229	15	0,865	0
WIKA-Model_3	1	0,833	0,989	17,361	2,037	13,139	18,555	15	0,235	0

(1,0,1)(1,1,0)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	

ADHI-Model_1	1	0,631	0,945	12,895	2,306	10,259	43,122	16	0	0
PTPP-Model_2	1	0,656	0,968	21,87	2,672	17,482	38,465	16	0,001	0
WIKA-Model_3	1	0,712	0,981	22,189	2,611	16,558	36,096	16	0,003	0

(1,0,1)(1,1,1)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	0,787	0,967	9,999	1,609	7,259	12,8	15	0,618	0
PTPP-Model_2	1	0,806	0,98	17,175	1,957	13,157	8,868	15	0,884	0
WIKA-Model_3	1	0,833	0,989	17,362	2,038	13,139	17,596	15	0,284	0

Lampiran 4 *RMSE Exponential Smoothing Holt Winter*

Holt Winters' Multiplicative

Metode Description			
			MetodeType
MetodeID	ADHI	Model_1	*Winters' Multiplicative*
	PTPP	Model_2	*Winters' Multiplicative*
	WIKA	Model_3	*Winters' Multiplicative*

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	RMSE	MAPE	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	0	0,546	0,973	9,338	1,525	6,83	16,595	15	0,344	0
PTPP-Model_2	0	0,528	0,984	16,030	1,869	12,460	10,773	15	0,768	0
WIKA-Model_3	0	0,549	0,991	15,789	1,871	11,825	20,976	15	0,138	0

Winters' Additive

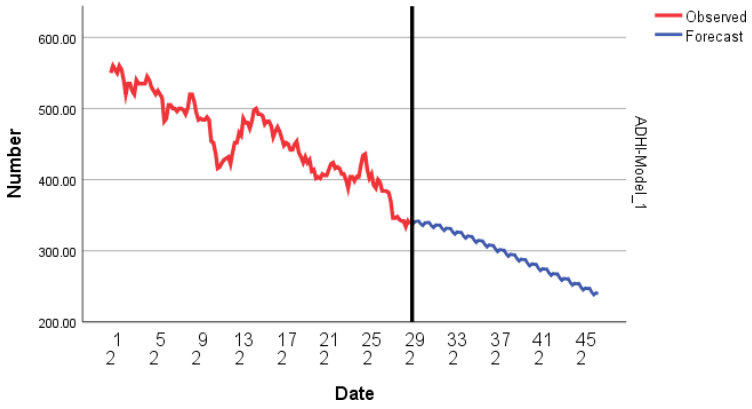
Metode Description			
			MetodeType
Metode ID	ADHI	Model_1	*Winters' Additive*
	PTPP	Model_2	*Winters' Additive*
	WIKA	Model_3	*Winters' Additive*

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	RMSE	MAPE	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	0	0,544	0,974	9,305	1,515	6,784	16,045	15	0,379	0
PTPP-Model_2	0	0,536	0,984	15,965	1,849	12,285	11,326	15	0,729	0
WIKA-Model_3	0	0,549	0,991	15,744	1,859	11,724	20,833	15	0,142	0

Lampiran 5 Plot Hasil Prediksi *ARIMA*

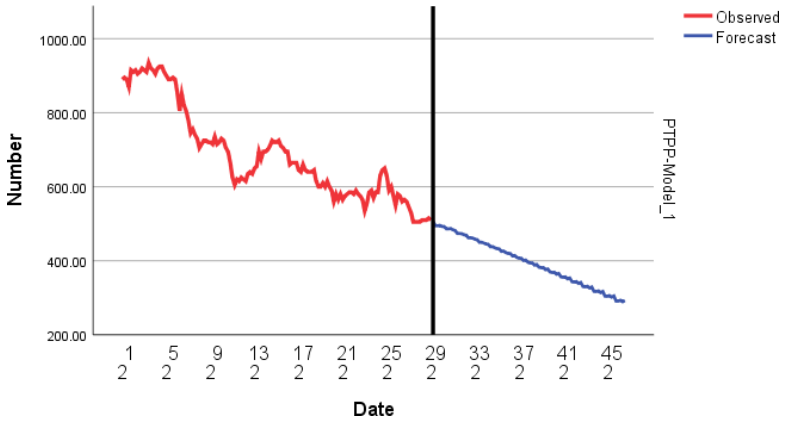
ADHI (1,0,0)(1,1,0)

MetodeStatistics										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	1	,786	,967	9,986	1,613	7,275	12,444	16	,713	0



PTPP (1,0,1)(1,1,0)

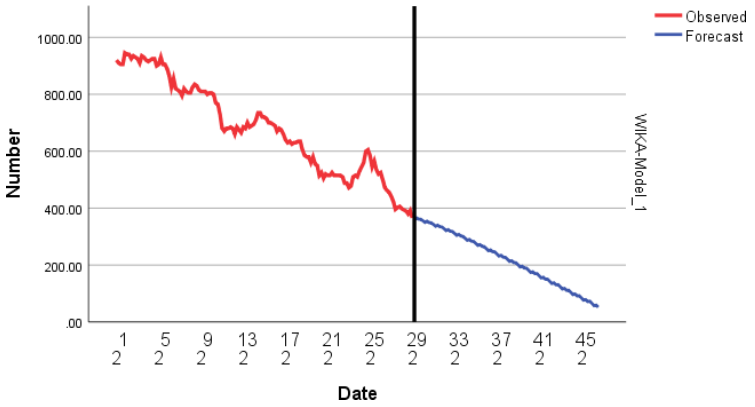
MetodeStatistis										
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	RMSE	MAPE	MAE	Statistics	DF	Sig.	
PTPP-Model_1	1	,726	,973	20,020	2,343	15,530	25,367	15	,045	0



WIKA (1,0,0)(0,1,1)

Metode Statistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
WIKA-Model_1	1	0,833	0,989	17,297	2,038	13,132	18,246	6	0,31	0



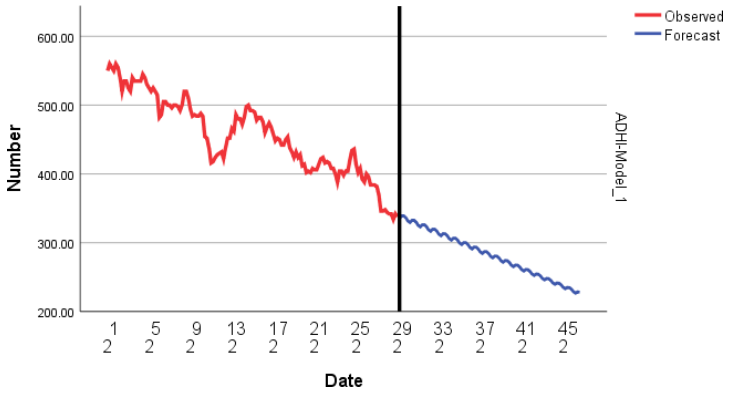
Lampiran 6 Plot Hasil Prediksi *Exponential Smoothing Holt Winter*

Winters' Multiplicative

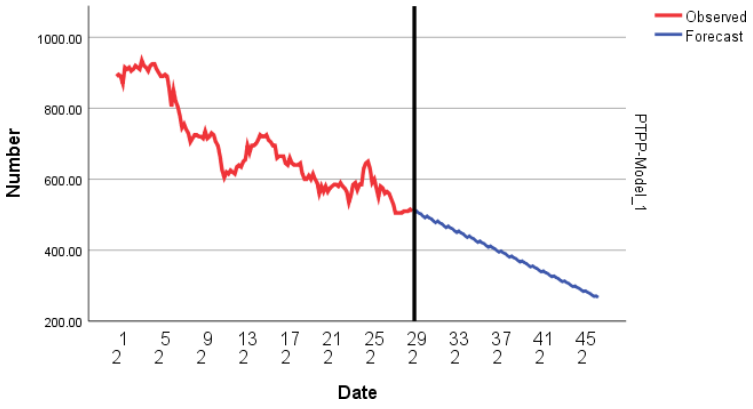
Metode Statistics

Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	0	,546	,973	9,338	1,525	6,830	16,595	15	,344	0
PTPP-Model_2	0	,528	,984	16,030	1,869	12,460	10,773	15	,768	0
WIKA-Model_3	0	,549	,991	15,789	1,871	11,825	20,976	15	,138	0

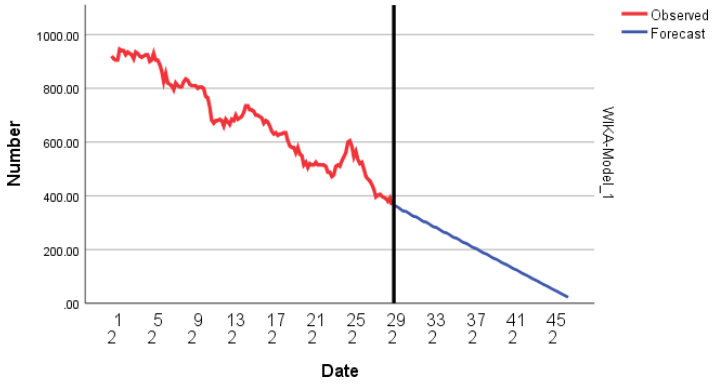
ADHI



PTPP



WIKA



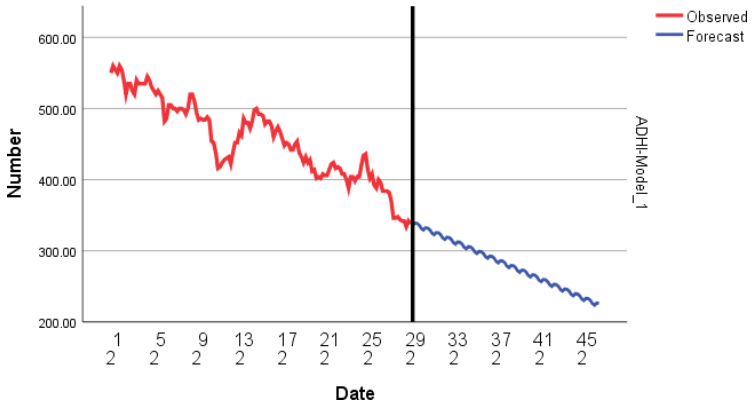
Winters' Additive

MetodeStatistics

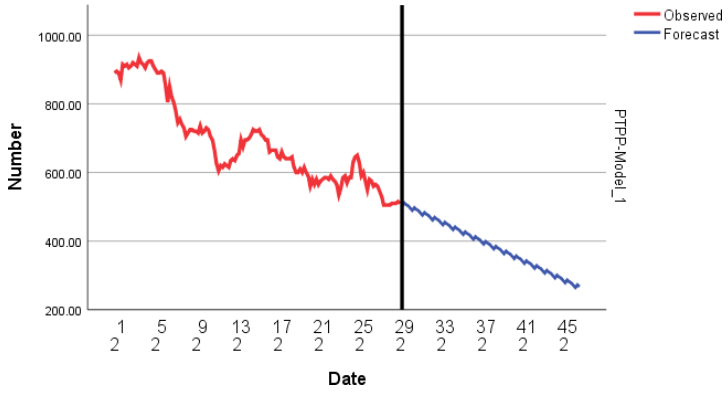
Model	Number of Predictors	MetodeFit statistics					Ljung-Box Q(18)			Number of Outliers
		Stationary R-squared	R-squared	*RMSE*	*MAPE*	*MAE*	Statistics	DF	Sig.	
ADHI-Model_1	0	,544	,974	9,305	1,515	6,784	16,045	15	,379	0

PTPP-Model_2	0	,536	,984	15,965	1,849	12,285	11,326	15	,729	0
WIKA-Model_3	0	,549	,991	15,744	1,859	11,724	20,833	15	,142	0

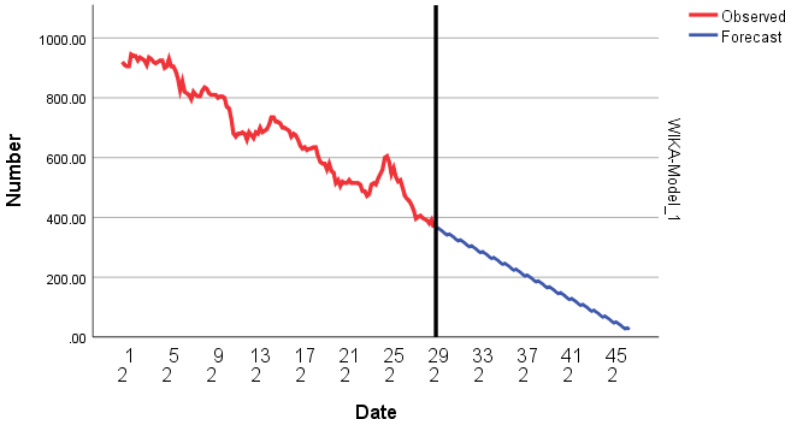
ADHI



PTPP



WIKA



Lampiran 7 Harga Saham *ARIMA*

ADHI

Tanggal	Harga Saham
01/08/2023	336.26
02/08/2023	340.80
03/08/2023	341.52
04/08/2023	341.85
07/08/2023	337.77
08/08/2023	335.48
09/08/2023	339.52
10/08/2023	339.76
11/08/2023	339.78
14/08/2023	335.30
15/08/2023	332.64
16/08/2023	336.34
17/08/2023	336.26
18/08/2023	336.11
21/08/2023	331.36
22/08/2023	328.44
23/08/2023	331.91
24/08/2023	331.61
25/08/2023	331.38
28/08/2023	326.45
29/08/2023	323.35
30/08/2023	326.66
31/08/2023	326.21
01/09/2023	325.96
04/09/2023	320.89

05/09/2023	317.68
06/09/2023	320.87
07/09/2023	320.31
08/09/2023	320.09
11/09/2023	314.92
12/09/2023	311.62
13/09/2023	314.72
14/09/2023	314.09
15/09/2023	313.91
18/09/2023	308.67
19/09/2023	305.30
20/09/2023	308.34
21/09/2023	307.65
22/09/2023	307.53
25/09/2023	302.24
26/09/2023	298.82
27/09/2023	301.81
28/09/2023	301.07
29/09/2023	301.03
02/10/2023	295.69
03/10/2023	292.23
04/10/2023	295.17

05/10/2023	294.39
06/10/2023	294.44
09/10/2023	289.06
10/10/2023	285.56
11/10/2023	288.47
12/10/2023	287.66
13/10/2023	287.79
16/10/2023	282.38
17/10/2023	278.85
18/10/2023	281.73
19/10/2023	280.88
20/10/2023	281.10
23/10/2023	275.67
24/10/2023	272.10
25/10/2023	274.95
26/10/2023	274.08
27/10/2023	274.39
30/10/2023	268.93
31/10/2023	265.34
01/11/2023	268.16
02/11/2023	267.26
03/11/2023	267.67

06/11/2023	262.18
07/11/2023	258.56
08/11/2023	261.35
09/11/2023	260.42
10/11/2023	260.93
13/11/2023	255.42
14/11/2023	251.77
15/11/2023	254.54
16/11/2023	253.58
17/11/2023	254.19
20/11/2023	248.65
21/11/2023	244.97
22/11/2023	247.72
23/11/2023	246.74
24/11/2023	247.44
27/11/2023	241.87
28/11/2023	238.18
29/11/2023	240.90
30/11/2023	239.89

PTPP

Tanggal	Harga Saham
01/08/2023	505.97
02/08/2023	494.83
03/08/2023	494.64
04/08/2023	495.61
07/08/2023	492.70
08/08/2023	492.57
09/08/2023	486.29
10/08/2023	486.24
11/08/2023	487.32
14/08/2023	483.62
15/08/2023	481.93
16/08/2023	473.69
17/08/2023	473.76
18/08/2023	473.27
21/08/2023	470.13
22/08/2023	469.35
23/08/2023	462.21
24/08/2023	462.48
25/08/2023	461.22
28/08/2023	458.11
29/08/2023	457.21
30/08/2023	449.88
31/08/2023	450.36
01/09/2023	448.01
04/09/2023	445.20
05/09/2023	444.66
06/09/2023	437.73
07/09/2023	438.43
08/09/2023	435.15
11/09/2023	432.53
12/09/2023	432.17
13/09/2023	425.39
14/09/2023	426.32
15/09/2023	422.06
18/09/2023	419.69
19/09/2023	419.58
20/09/2023	413.07
21/09/2023	414.24
22/09/2023	409.02
25/09/2023	406.88
26/09/2023	406.99

27/09/2023	400.71
28/09/2023	402.11
29/09/2023	395.93
02/10/2023	394.03
03/10/2023	394.39
04/10/2023	388.35
05/10/2023	389.99
06/10/2023	382.85
09/10/2023	381.18
10/10/2023	381.78
11/10/2023	375.98
12/10/2023	377.86
13/10/2023	369.75
16/10/2023	368.33
17/10/2023	369.17
18/10/2023	363.61
19/10/2023	365.73
20/10/2023	356.66
23/10/2023	355.48
24/10/2023	356.55
25/10/2023	351.23
26/10/2023	353.59

27/10/2023	343.57
30/10/2023	342.62
31/10/2023	343.94
01/11/2023	338.86
02/11/2023	341.46
03/11/2023	330.47
06/11/2023	329.76
07/11/2023	331.32
08/11/2023	326.48
09/11/2023	329.32
10/11/2023	317.37
13/11/2023	316.91
14/11/2023	318.71
15/11/2023	314.10
16/11/2023	317.19
17/11/2023	304.28
20/11/2023	304.05
21/11/2023	306.09
22/11/2023	301.73
23/11/2023	305.05
24/11/2023	291.18
27/11/2023	291.20

28/11/2023	293.47
29/11/2023	289.35
30/11/2023	292.91

WIKA

Tanggal	Harga Saham
01/08/2023	360.82
02/08/2023	365.75
03/08/2023	361.17
04/08/2023	360.97
07/08/2023	355.62
08/08/2023	349.78
09/08/2023	354.09
10/08/2023	348.93
11/08/2023	348.44
14/08/2023	342.58
15/08/2023	336.25
16/08/2023	340.12
17/08/2023	334.53
18/08/2023	333.89
21/08/2023	327.65
22/08/2023	320.97
23/08/2023	324.50
24/08/2023	318.60
25/08/2023	317.90
28/08/2023	311.38
29/08/2023	304.44
30/08/2023	307.71
31/08/2023	301.58
01/09/2023	300.90
04/09/2023	294.16
05/09/2023	287.02
06/09/2023	290.10
07/09/2023	283.78
08/09/2023	283.18
11/09/2023	276.27
12/09/2023	268.97
13/09/2023	271.90
14/09/2023	265.43
15/09/2023	264.94

18/09/2023	257.91
19/09/2023	250.47
20/09/2023	253.28
21/09/2023	246.70
22/09/2023	246.34
25/09/2023	239.20
26/09/2023	231.66
27/09/2023	234.37
28/09/2023	227.69
29/09/2023	227.48
02/10/2023	220.25
03/10/2023	212.62
04/10/2023	215.24
05/10/2023	208.48
06/10/2023	208.44
09/10/2023	201.13
10/10/2023	193.43
11/10/2023	195.97
12/10/2023	189.14
13/10/2023	189.27
16/10/2023	181.89
17/10/2023	174.12

18/10/2023	176.60
19/10/2023	169.69
20/10/2023	170.01
23/10/2023	162.56
24/10/2023	154.73
25/10/2023	157.14
26/10/2023	150.18
27/10/2023	150.69
30/10/2023	143.18
31/10/2023	135.28
01/11/2023	137.64
02/11/2023	130.61
03/11/2023	131.31
06/11/2023	123.75
07/11/2023	115.79
08/11/2023	118.09
09/11/2023	111.01
10/11/2023	111.91
13/11/2023	104.28
14/11/2023	96.28
15/11/2023	98.52
16/11/2023	91.39

17/11/2023	92.48
20/11/2023	84.80
21/11/2023	76.74
22/11/2023	78.93
23/11/2023	71.75
24/11/2023	73.03
27/11/2023	65.30
28/11/2023	57.19
29/11/2023	59.33
30/11/2023	52.09

Lampiran 8 Harga Saham *Exponential Smoothing*

Multiplicative dan Additive ADHI

Tanggal	Harga Saham ADHI	
	Multiplicative	Additive
01/08/2023	335.74	335.74
02/08/2023	339.20	339.04
03/08/2023	339.29	338.62
04/08/2023	336.46	336.17
07/08/2023	331.57	331.40
08/08/2023	329.33	329.14
09/08/2023	332.70	332.44
10/08/2023	332.76	332.02
11/08/2023	329.96	329.56
14/08/2023	325.14	324.79
15/08/2023	322.92	322.54
16/08/2023	326.19	325.83
17/08/2023	326.23	325.41
18/08/2023	323.46	322.96
21/08/2023	318.71	318.19
22/08/2023	316.51	315.94
23/08/2023	319.69	319.23

24/08/2023	319.70	318.81
25/08/2023	316.96	316.36
28/08/2023	312.28	311.59
29/08/2023	310.09	309.33
30/08/2023	313.19	312.63
31/08/2023	313.17	312.21
01/09/2023	310.46	309.75
04/09/2023	305.84	304.99
05/09/2023	303.68	302.73
06/09/2023	306.68	306.03
07/09/2023	306.64	305.61
08/09/2023	303.96	303.15
11/09/2023	299.41	298.38
12/09/2023	297.27	296.13
13/09/2023	300.18	299.42
14/09/2023	300.11	299.00
15/09/2023	297.46	296.55
18/09/2023	292.98	291.78
19/09/2023	290.86	289.53
20/09/2023	293.68	292.82
21/09/2023	293.58	292.40

22/09/2023	290.95	289.95
25/09/2023	286.55	285.18
26/09/2023	284.44	282.92
27/09/2023	287.17	286.22
28/09/2023	287.05	285.80
29/09/2023	284.45	283.34
02/10/2023	280.12	278.58
03/10/2023	278.03	276.32
04/10/2023	280.67	279.62
05/10/2023	280.52	279.20
06/10/2023	277.95	276.74
09/10/2023	273.69	271.97
10/10/2023	271.62	269.72
11/10/2023	274.17	273.01
12/10/2023	273.99	272.59
13/10/2023	271.45	270.14
16/10/2023	267.26	265.37
17/10/2023	265.21	263.11
18/10/2023	267.66	266.41
19/10/2023	267.46	265.99
20/10/2023	264.95	263.54

23/10/2023	260.83	258.77
24/10/2023	258.79	256.51
25/10/2023	261.16	259.81
26/10/2023	260.93	259.39
27/10/2023	258.45	256.93
30/10/2023	254.40	252.17
31/10/2023	252.38	249.91
01/11/2023	254.66	253.20
02/11/2023	254.40	252.79
03/11/2023	251.95	250.33
06/11/2023	247.96	245.56
07/11/2023	245.97	243.31
08/11/2023	248.15	246.60
09/11/2023	247.87	246.18
10/11/2023	245.45	243.73
13/11/2023	241.53	238.96
14/11/2023	239.56	236.70
15/11/2023	241.65	240.00
16/11/2023	241.34	239.58
17/11/2023	238.95	237.13
20/11/2023	235.10	232.36

21/11/2023	233.14	230.10
22/11/2023	235.15	233.40
23/11/2023	234.81	232.98
24/11/2023	232.45	230.52
27/11/2023	228.67	225.75
28/11/2023	226.73	223.50
29/11/2023	228.64	226.79
30/11/2023	228.28	226.37

PTPP

Tanggal	Harga Saham PTPP	
	Multiplicative	Additive
01/08/2023	505.15	503.45
02/08/2023	510.40	511.67
03/08/2023	504.56	506.13
04/08/2023	502.65	503.10
07/08/2023	496.05	495.94
08/08/2023	491.31	489.40
09/08/2023	496.34	497.61
10/08/2023	490.58	492.08
11/08/2023	488.65	489.04

14/08/2023	482.15	481.88
15/08/2023	477.47	475.34
16/08/2023	482.28	483.56
17/08/2023	476.60	478.02
18/08/2023	474.64	474.99
21/08/2023	468.25	467.83
22/08/2023	463.63	461.29
23/08/2023	468.21	469.50
24/08/2023	462.62	463.97
25/08/2023	460.64	460.93
28/08/2023	454.35	453.77
29/08/2023	449.78	447.23
30/08/2023	454.15	455.45
31/08/2023	448.64	449.91
01/09/2023	446.63	446.87
04/09/2023	440.46	439.72
05/09/2023	435.94	433.17
06/09/2023	440.08	441.39
07/09/2023	434.66	435.85
08/09/2023	432.63	432.82
11/09/2023	426.56	425.66

12/09/2023	422.10	419.12
13/09/2023	426.02	427.33
14/09/2023	420.68	421.80
15/09/2023	418.62	418.76
18/09/2023	412.66	411.60
19/09/2023	408.25	405.06
20/09/2023	411.96	413.28
21/09/2023	406.70	407.74
22/09/2023	404.62	404.71
25/09/2023	398.76	397.55
26/09/2023	394.41	391.01
27/09/2023	397.89	399.22
28/09/2023	392.72	393.69
29/09/2023	390.61	390.65
02/10/2023	384.86	383.49
03/10/2023	380.57	376.95
04/10/2023	383.83	385.17
05/10/2023	378.74	379.63
06/10/2023	376.61	376.59
09/10/2023	370.97	369.44
10/10/2023	366.72	362.89

11/10/2023	369.77	371.11
12/10/2023	364.76	365.57
13/10/2023	362.61	362.54
16/10/2023	357.07	355.38
17/10/2023	352.88	348.84
18/10/2023	355.70	357.05
19/10/2023	350.78	351.52
20/10/2023	348.60	348.48
23/10/2023	343.17	341.32
24/10/2023	339.04	334.78
25/10/2023	341.64	343.00
26/10/2023	336.80	337.46
27/10/2023	334.60	334.43
30/10/2023	329.27	327.27
31/10/2023	325.20	320.73
01/11/2023	327.57	328.94
02/11/2023	322.82	323.41
03/11/2023	320.59	320.37
06/11/2023	315.37	313.21
07/11/2023	311.35	306.67
08/11/2023	313.51	314.89

09/11/2023	308.84	309.35
10/11/2023	306.59	306.31
13/11/2023	301.47	299.16
14/11/2023	297.51	292.61
15/11/2023	299.45	300.83
16/11/2023	294.86	295.29
17/11/2023	292.58	292.26
20/11/2023	287.58	285.10
21/11/2023	283.67	278.56
22/11/2023	285.38	286.77
23/11/2023	280.88	281.24
24/11/2023	278.58	278.20
27/11/2023	273.68	271.04
28/11/2023	269.82	264.50
29/11/2023	271.32	272.72
30/11/2023	266.90	267.18

WIKA

Tanggal	Harga Saham WIKA	
	Multiplicative	Additive
01/08/2023	361.68	360.63

02/08/2023	361.92	364.28
03/08/2023	357.28	358.53
04/08/2023	352.34	353.71
07/08/2023	346.50	346.41
08/08/2023	342.19	341.03
09/08/2023	342.20	344.67
10/08/2023	337.60	338.92
11/08/2023	332.71	334.10
14/08/2023	326.98	326.80
15/08/2023	322.69	321.42
16/08/2023	322.48	325.07
17/08/2023	317.92	319.32
18/08/2023	313.09	314.49
21/08/2023	307.46	307.20
22/08/2023	303.19	301.82
23/08/2023	302.76	305.46
24/08/2023	298.23	299.71
25/08/2023	293.46	294.89
28/08/2023	287.94	287.59
29/08/2023	283.70	282.21
30/08/2023	283.03	285.85

31/08/2023	278.55	280.10
01/09/2023	273.83	275.28
04/09/2023	268.42	267.99
05/09/2023	264.20	262.61
06/09/2023	263.31	266.25
07/09/2023	258.86	260.50
08/09/2023	254.20	255.68
11/09/2023	248.90	248.38
12/09/2023	244.70	243.00
13/09/2023	243.59	246.64
14/09/2023	239.18	240.89
15/09/2023	234.57	236.07
18/09/2023	229.38	228.78
19/09/2023	225.21	223.39
20/09/2023	223.87	227.04
21/09/2023	219.49	221.29
22/09/2023	214.95	216.47
25/09/2023	209.86	209.17
26/09/2023	205.71	203.79
27/09/2023	204.14	207.43
28/09/2023	199.81	201.68

29/09/2023	195.32	196.86
02/10/2023	190.34	189.56
03/10/2023	186.21	184.18
04/10/2023	184.42	187.83
05/10/2023	180.13	182.08
06/10/2023	175.69	177.25
09/10/2023	170.82	169.96
10/10/2023	166.71	164.58
11/10/2023	164.70	168.22
12/10/2023	160.44	162.47
13/10/2023	156.06	157.65
16/10/2023	151.30	150.35
17/10/2023	147.22	144.97
18/10/2023	144.98	148.61
19/10/2023	140.76	142.86
20/10/2023	136.43	138.04
23/10/2023	131.78	130.75
24/10/2023	127.72	125.37
25/10/2023	125.25	129.01
26/10/2023	121.07	123.26
27/10/2023	116.80	118.44

30/10/2023	112.26	111.14
31/10/2023	108.22	105.76
01/11/2023	105.53	109.40
02/11/2023	101.39	103.65
03/11/2023	97.18	98.83
06/11/2023	92.74	91.54
07/11/2023	88.73	86.15
08/11/2023	85.81	89.80
09/11/2023	81.71	84.05
10/11/2023	77.55	79.23
13/11/2023	73.22	71.93
14/11/2023	69.23	66.55
15/11/2023	66.09	70.19
16/11/2023	62.02	64.44
17/11/2023	57.92	59.62
20/11/2023	53.70	52.32
21/11/2023	49.73	46.94
22/11/2023	46.36	50.59
23/11/2023	42.34	44.84
24/11/2023	38.29	40.01
27/11/2023	34.18	32.72

28/11/2023	30.24	27.34
29/11/2023	26.64	30.98
30/11/2023	22.65	25.23

RIWAYAT HIDUP PENULIS

A. IDENTITTAS

1.	Nama	: Winda Fajriyah
2.	Tempat Tanggal Lahir	: Pekalongan, 27 Maret 2001
3.	Alamat Rumah	: Puri Selatan Blok 2B No. 58 Perumahan Puri Kedungwuni, Kec. Kedungwuni Timur, Kab. Pekalongan
4.	Alamat Tinggal	: Puri Selatan Blok 2B No. 58 Perumahan Puri Kedungwuni, Kec. Kedungwuni Timur, Kab. Pekalongan
5.	Nomor *Handphone*	: 085848925648
6.	Email	: windafajriyah576@gmail.com
7.	Nama Ayah	: Taufiq Widayat
8.	Pekerjaan Ayah	: Buruh
9.	Nama Ibu	: Kumaidah
10.	Pekerjaan Ibu	: Buruh

B. RIWAYAT PENDIDIKAN

1.	SD	: SD Negeri 01 Kedungwuni
2.	SMP	: SMP Negeri 01 Kedungwuni
3.	SMA	: SMA Negeri 01 Kedungwuni

C. PENGALAMAN ORGANISASI

1. Tidak Ada

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