Lampiran 1. Perhitungan Peramalan Metode *Linier Trend*

Periode	Permintaan (pcs)	t*Y(t)	t^2	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
1	115.200	115.200	1	112.625	2.575	2.575	6.630.625	0,02
2	117.120	234.240	4	113.463	3.657	3.657	13.505.625	0,03
3	116.736	350.208	9	114.300	2.436	2.436	5.934.096	0,02
4	119.040	476.160	16	115.137	3.903	3.903	15.233.409	0,03
5	118.656	593.280	25	115.975	2.681	2.681	7.187.761	0,02
6	115.200	691.200	36	116.812	-1.612	1.612	2.598.544	0,01
7	118.272	827.904	49	117.649	623	623	388.129	0,01
8	119.424	955.392	64	118.487	937	937	877.969	0,01
9	122.040	1.098.360	81	119.324	2.716	2.716	7.376.656	0,02
10	110.304	1.103.040	100	120.161	-9.857	9.857	97.160.499	0,09
11	122.092	1.343.012	121	120.999	1.093	1.093	1.194.649	0,01
12	128.992	1.547.904	144	121.836	7.156	7.156	51.208.336	0,06
13	115.968	1.507.584	169	122.674	-6.706	6.706	44.970.436	0,06
14	115.200	1.612.800	196	123.511	-8.311	8.311	69.072.721	0,07
15	120.192	1.802.880	225	124.348	-4.156	4.156	17.272.336	0,03
16	113.280	1.812.480	256	125.186	-11.906	11.906	141.752.836	0,11
17	125.568	2.134.656	289	126.023	-455	455	207.025	0,00
18	127.104	2.287.872	324	126.860	244	244	59.536	0,00
19	123.648	2.349.312	361	127.698	-4.050	4.050	16.402.500	0,03
20	123.264	2.465.280	400	128.535	-5.271	5.271	27.783.441	0,04
21	133.248	2.798.208	441	129.372	3.876	3.876	15.023.376	0,03
22	129.408	2.846.976	484	130.210	-802	802	643.204	0,01
23	134.400	3.091.200	529	131.047	3.353	3.353	11.242.609	0,02
24	149.760	3.594.240	576	131.884	17.876	17.876	319.551.376	0,12
25			625	132.722				
26			676	133.559				

Lanjutan lampiran 1. Perhitungan Peramalan Metode *Linier Trend*

Periode	Permintaan (pcs)	t*Y(t)	t^2	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
25			625	132.722				
26			676	133.559				
27			729	134.396				
28			784	135.234				
29			841	136.071				
30			900	136.908				
31			961	137.746				
32			1.024	138.583				
33			1.089	139.420				
34			1.156	140.258				
35			1.225	141.095				
36			1.296	141.932				
300	2.934.116	37.639.388	4.900	2.934.116	0,00	106.249	873.277.694	0,86
b	837,3373913							
a	111788,1159							
MAD	4427,036908							
MSE	36386570,58							
MAPE	3,59692525							

b

Lampiran 2 Perhitungan Peramalan Metode *Quadratic Trend*

Periode	Permintaan (pcs)	t^2	t^3	t^4	t*Y(t)	t^2*Y(t)	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
1	115.200	1	1	1	115.200	115.200	119.590	-4.390	4.390	19.272.100	0,04
2	117.120	4	8	16	234.240	468.480	118.611	-1.491	1.491	2.223.081	0,01
3	116.736	9	27	81	350.208	1.050.624	117.796	-1.060	1.060	1.123.600	0,01
4	119.040	16	64	256	476.160	1.904.640	117.147	1.893	1.893	3.583.449	0,02
5	118.656	25	125	625	593.280	2.966.400	116.663	1.993	1.993	3.972.049	0,02
6	115.200	36	216	1.296	691.200	4.147.200	116.344	-1.144	1.144	1.308.736	0,01
7	118.272	49	343	2.401	827.904	5.795.328	116.190	2.082	2.082	4.334.724	0,02
8	119.424	64	512	4.096	955.392	7.643.136	116.202	3.222	3.222	10.381.284	0,03
9	122.040	81	729	6.561	1.098.360	9.885.240	116.379	5.661	5.661	32.046.921	0,05
10	110.304	100	1.000	10.000	1.103.040	11.030.400	116.720	-6.416	6.416	41.165.056	0,06
11	122.092	121	1.331	14.641	1.343.012	14.773.132	117.227	4.865	4.865	23.668.225	0,04
12	128.992	144	1.728	20.736	1.547.904	18.574.848	117.899	11.093	11.093	123.054.649	0,09
13	115.968	169	2.197	28.561	1.507.584	19.598.592	118.737	-2.769	2.769	7.667.316	0,02
14	115.200	196	2.744	38.416	1.612.800	22.579.200	119.739	-4.539	4.539	20.602.521	0,04
15	120.192	225	3.375	50.625	1.802.880	27.043.200	120.907	-715	715	511.225	0,01
16	113.280	256	4.096	65.536	1.812.480	28.999.680	122.240	-8.960	8.960	80.281.600	0,08
17	125.568	289	4.913	83.521	2.134.656	36.289.152	123.738	1.830	1.830	3.348.900	0,01
18	127.104	324	5.832	104.976	2.287.872	41.181.696	125.401	1.703	1.703	2.900.209	0,01
19	123.648	361	6.859	130.321	2.349.312	44.636.928	127.230	-3.582	3.582	12.830.724	0,03
20	123.264	400	8.000	160.000	2.465.280	49.305.600	129.223	-5.959	5.959	35.509.681	0,05
21	133.248	441	9.261	194.481	2.798.208	58.762.368	131.382	1.866	1.866	3.481.956	0,01
22	129.408	484	10.648	234.256	2.846.976	62.633.472	133.706	-4.298	4.298	18.472.804	0,03
23	134.400	529	12.167	279.841	3.091.200	71.097.600	136.195	-1.795	1.795	3.222.025	0,01

24	149.760	576	13.824	331.776	3.594.240	86.261.760	138.849	10.911	10.911	119.049.921	0,07
25		625	15.625	390.625			141.669				

Lanjutan lampiran 2. Perhitungan Peramalan Metode *Quadratic Trend*

Periode	Permintaan (pcs)	t^2	t^3	t^4	t*Y(t)	t^2*Y(t)	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
26		676	17.576	456.976			144.653				
27		729	19.683	531.441			147.803				
28		784	21.952	614.656			151.118				
29		841	24.389	707.281			154.598				
30		900	27.000	810.000			158.243				
31		961	29.791	923.521			162.054				
32		1.024	32.768	1.048.576			166.030				
33		1.089	35.937	1.185.921			170.170				
34		1.156	39.304	1.336.336			174.476				
35		1.225	42.875	1.500.625			178.948				
36		1.296	46.656	1.679.616			183.584				
300	2.934.116	4.900	90.000	1.763.020	37.639.388	626.743.876	2.934.116	0,00	94.236	574.012.756	0,76

γ	-18302480
δ	-23110512
θ	-664684624
α	-690000
β	-27600
b	-1227,353244
c	82,58762542

a	120735,1087
MAD	3926,516951
MSE	23917198,17
MAPE	3,185673149

Lampiran 3. Perhitungan Peramalan Metode DES ($\alpha = 0.1$)

Periode	Permintaan (pcs)	S't	S''t	S't - S't	a	b	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
1	115.200	115.200	115.200	0	115.200	0					
2	117.120	115.392	115.219	173	115.565	19	115.200	1.920	1.920	3.686.400	0,02
3	116.736	115.526	115.250	276	115.803	31	115.584	1.152	1.152	1.327.104	0,01
4	119.040	115.878	115.313	565	116.443	63	115.834	3.206	3.206	10.281.001	0,03
5	118.656	116.156	115.397	759	116.914	84	116.506	2.150	2.150	4.624.220	0,02
6	115.200	116.060	115.463	597	116.657	66	116.998	-1.798	1.798	3.234.473	0,02
7	118.272	116.281	115.545	736	117.017	82	116.723	1.549	1.549	2.399.218	0,01
8	119.424	116.596	115.650	945	117.541	105	117.099	2.325	2.325	5.404.924	0,02
9	122.040	117.140	115.799	1.341	118.481	149	117.646	4.394	4.394	19.307.998	0,04
10	110.304	116.456	115.865	592	117.048	66	118.630	-8.326	8.326	69.318.478	0,08
11	122.092	117.020	115.980	1.040	118.059	116	117.114	4.978	4.978	24.784.470	0,04
12	128.992	118.217	116.204	2.013	120.230	224	118.175	10.817	10.817	117.007.399	0,08
13	115.968	117.992	116.383	1.609	119.602	179	120.454	-4.486	4.486	20.123.404	0,04
14	115.200	117.713	116.516	1.197	118.910	133	119.780	-4.580	4.580	20.980.135	0,04
15	120.192	117.961	116.660	1.301	119.261	145	119.043	1.149	1.149	1.319.867	0,01
16	113.280	117.493	116.744	749	118.242	83	119.406	-6.126	6.126	37.527.037	0,05
17	125.568	118.300	116.899	1.401	119.701	156	118.325	7.243	7.243	52.457.443	0,06
18	127.104	119.181	117.127	2.053	121.234	228	119.857	7.247	7.247	52.518.378	0,06
19	123.648	119.627	117.377	2.250	121.877	250	121.462	2.186	2.186	4.778.129	0,02

e

20	123.264	119.991	117.639	2.352	122.343	261	122.127	1.137	1.137	1.291.798	0,01
21	133.248	121.317	118.007	3.310	124.627	368	122.605	10.643	10.643	113.278.942	0,08
22	129.408	122.126	118.419	3.707	125.833	412	124.995	4.413	4.413	19.476.690	0,03
23	134.400	123.353	118.912	4.441	127.795	493	126.245	8.155	8.155	66.500.657	0,06
24	149.760	125.994	119.620	6.374	132.368	708	128.288	21.472	21.472	461.042.648	0,14
25							133.076	-133.076	133.076	17.709.210.094	

Lanjutan lampiran 3. Perhitungan Peramalan Metode DES ($\alpha = 0.1$)

Periode	Permintaan (pcs)	S't	S''t	S't - S't	a	b	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
26							133.784	-133.784	133.784	17.898.199.916	
27							134.492	-134.492	134.492	18.088.192.828	
28							135.201	-135.201	135.201	18.279.188.829	
29							135.909	-135.909	135.909	18.471.187.920	
30							136.617	-136.617	136.617	18.664.190.099	
31							137.325	-137.325	137.325	18.858.195.367	
32							138.033	-138.033	138.033	19.053.203.725	
33							138.742	-138.742	138.742	19.249.215.171	
34							139.450	-139.450	139.450	19.446.229.707	
35							140.158	-140.158	140.158	19.644.247.332	
36							140.866	-140.866	140.866	19.843.268.046	
300	2.934.116	2.836.970	2.797.188	39.782	2.876.752	4.420	4.391.749	-1.572.833	1.765.105	226.317.199.848	0,96

α	0,1
MAD	73.546,05549
MSE	9429883326,99582
MAPE	3,98883

f

Lampiran 4. Perhitungan Peramalan Metode DES ($\alpha = 0.5$)

Periode	Permintaan (pcs)	S't	S''t	S't - S''t	a	b	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
1	115.200	115.200	115.200	0	115.200	0					
2	117.120	116.160	115.680	480	116.640	480	115.200	1.920	1.920	3.686.400	0,02
3	116.736	116.448	116.064	384	116.832	384	117.120	-384	384	147.456	0,00
4	119.040	117.744	116.904	840	118.584	840	117.216	1.824	1.824	3.326.976	0,02
5	118.656	118.200	117.552	648	118.848	648	119.424	-768	768	589.824	0,01
6	115.200	116.700	117.126	-426	116.274	-426	119.496	-4.296	4.296	18.455.616	0,04
7	118.272	117.486	117.306	180	117.666	180	115.848	2.424	2.424	5.875.776	0,02
8	119.424	118.455	117.881	575	119.030	575	117.846	1.578	1.578	2.490.084	0,01
9	122.040	120.248	119.064	1.184	121.431	1.184	119.604	2.436	2.436	5.934.096	0,02
10	110.304	115.276	117.170	-1.894	113.382	-1.894	122.615	-12.311	12.311	151.548.410	0,11
11	122.092	118.684	117.927	757	119.441	757	111.488	10.605	10.605	112.455.420	0,09
12	128.992	123.838	120.882	2.956	126.793	2.956	120.198	8.794	8.794	77.336.635	0,07
13	115.968	119.903	120.393	-490	119.413	-490	129.749	-13.781	13.781	189.915.961	0,12
14	115.200	117.551	118.972	-1.421	116.131	-1.421	118.924	-3.724	3.724	13.864.685	0,03
15	120.192	118.872	118.922	-50	118.822	-50	114.710	5.482	5.482	30.049.240	0,05
16	113.280	116.076	117.499	-1.423	114.653	-1.423	118.771	-5.491	5.491	30.155.457	0,05
17	125.568	120.822	119.160	1.662	122.483	1.662	113.230	12.338	12.338	152.230.485	0,10
18	127.104	123.963	121.562	2.401	126.364	2.401	124.145	2.959	2.959	8.755.808	0,02
19	123.648	123.805	122.684	1.122	124.927	1.122	128.766	-5.118	5.118	26.189.026	0,04
20	123.264	123.535	123.109	426	123.960	426	126.049	-2.785	2.785	7.757.767	0,02

g

21	133.248	128.391	125.750	2.641	131.032	2.641	124.386	8.862	8.862	78.536.879	0,07
22	129.408	128.900	127.325	1.575	130.474	1.575	133.674	-4.266	4.266	18.195.149	0,03
23	134.400	131.650	129.487	2.162	133.812	2.162	132.049	2.351	2.351	5.526.716	0,02
24	149.760	140.705	135.096	5.609	146.314	5.609	135.975	13.785	13.785	190.034.253	0,09
25							151.922	-151.922	151.922	23.080.425.662	
26							157.531	-157.531	157.531	24.816.075.470	

Lanjutan lampiran 4. Perhitungan Peramalan Metode DES (α = 0.5)

Periode	Permintaan (pcs)	S't	S''t	S't - S''t	a	b	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
27							163.140	-163.140	163.140	26.614.641.562	
28							168.749	-168.749	168.749	28.476.123.939	
29							174.357	-174.357	174.357	30.400.522.599	
30							179.966	-179.966	179.966	32.387.837.543	
31							185.575	-185.575	185.575	34.438.068.772	
32							191.184	-191.184	191.184	36.551.216.284	
33							196.792	-196.792	196.792	38.727.280.081	
34							202.401	-202.401	202.401	40.966.260.161	
35							208.010	-208.010	208.010	43.268.156.526	
36							213.619	-213.619	213.619	45.632.969.175	
300	2.934.116	2.908.611	2.888.715	19.896	2.928.507	19.896	4.989.728	-2.170.812	2.321.528	406.492.635.894	1,04

α	0,5
MAD	96730,32149

h

MSE	16937193162
MAPE	4,328551118

Lampiran 5. Perhitungan Peramalan Metode DES ($\alpha = 0.9$)

Periode	Permintaan (pcs)	S't	S''t	S't - S't	a	b	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
1	115.200	115.200	115.200	0	115.200	0					
2	117.120	116.928	116.755	173	117.101	1.555	115.200	1.920	1.920	3.686.400	0,02
3	116.736	116.755	116.755	0	116.755	0	118.656	-1.920	1.920	3.686.400	0,02
4	119.040	118.812	118.606	206	119.017	1.851	116.755	2.285	2.285	5.220.311	0,02
5	118.656	118.672	118.665	7	118.678	59	120.868	-2.212	2.212	4.892.236	0,02
6	115.200	115.547	115.859	-312	115.235	-2.806	118.737	-3.537	3.537	12.511.897	0,03
7	118.272	118.000	117.785	214	118.214	1.927	112.429	5.843	5.843	34.136.853	0,05
8	119.424	119.282	119.132	150	119.431	1.346	120.140	-716	716	512.789	0,01
9	122.040	121.764	121.501	263	122.027	2.369	120.778	1.262	1.262	1.593.539	0,01
10	110.304	111.450	112.455	-1.005	110.445	-9.046	124.396	-14.092	14.092	198.594.840	0,13
11	122.092	121.028	120.171	857	121.885	7.715	101.399	20.693	20.693	428.196.227	0,17
12	128.992	128.196	127.393	803	128.998	7.223	129.600	-608	608	370.267	0,00
13	115.968	117.191	118.211	-1.020	116.171	-9.182	136.221	-20.253	20.253	410.168.948	0,17
14	115.200	115.399	115.680	-281	115.118	-2.531	106.988	8.212	8.212	67.429.706	0,07
15	120.192	119.713	119.309	403	120.116	3.629	112.587	7.605	7.605	57.833.563	0,06
16	113.280	113.923	114.462	-539	113.385	-4.848	123.745	-10.465	10.465	109.519.322	0,09
17	125.568	124.404	123.409	994	125.398	8.947	108.537	17.031	17.031	290.052.305	0,14
18	127.104	126.834	126.491	342	127.176	3.082	134.345	-7.241	7.241	52.434.458	0,06
19	123.648	123.967	124.219	-252	123.714	-2.272	130.259	-6.611	6.611	43.699.266	0,05
20	123.264	123.334	123.423	-88	123.246	-796	121.442	1.822	1.822	3.320.789	0,01

21	133.248	132.257	131.373	883	133.140	7.950	122.449	10.799	10.799	116.609.029	0,08
22	129.408	129.693	129.861	-168	129.525	-1.512	141.091	-11.683	11.683	136.481.036	0,09
23	134.400	133.929	133.522	407	134.336	3.662	128.012	6.388	6.388	40.800.314	0,05
24	149.760	148.177	146.711	1.465	149.642	13.189	137.998	11.762	11.762	138.352.350	0,08
25							162.831	-162.831	162.831	26.514.067.955	

Lanjutan lampiran 5. Perhitungan Peramalan Metode DES ($\alpha = 0.9$)

Periode	Permintaan (pcs)	S't	S''t	S't - S't	a	b	Peramalan (pcs)	Error	Abs. E	E^2	Abs. E
26							176.020	-176.020	176.020	30.983.196.176	
27							189.209	-189.209	189.209	35.800.225.573	
28							202.399	-202.399	202.399	40.965.156.147	
29							215.588	-215.588	215.588	46.477.987.898	
30							228.777	-228.777	228.777	52.338.720.826	
31							241.966	-241.966	241.966	58.547.354.931	
32							255.155	-255.155	255.155	65.103.890.213	
33							268.344	-268.344	268.344	72.008.326.672	
34							281.533	-281.533	281.533	79.260.664.307	
35							294.722	-294.722	294.722	86.860.903.119	
36							307.911	-158.151	158.151	25.011.666.476	
300	2.934.116	2.930.452	2.926.951	3.501	2.933.953	31.511	5.627.086	-2.658.410	2.849.652	622.032.263.141	1,43

α	0,9
MAD	118735,4938
MSE	25918010964
MAPE	5,953717446

Lampiran 6. Perhitungan *Tracking Signal*

Periode	Permintaan (pcs)	Peramalan (pcs)	Error	RSFE	Abs. E	Cumm. Abs. E	MAD	T.S.	4MAD	-4MAD
1	115.200	119.590	-4.390	-4.390	4.390	4.390	4.390	-1,00	4	-4
2	117.120	118.611	-1.491	-5.881	5.881	10.271	5.136	-1,15	4	-4
3	116.736	117.796	-1.060	-6.941	6.941	17.213	5.738	-1,21	4	-4
4	119.040	117.147	1.893	-5.049	5.049	22.261	5.565	-0,91	4	-4
5	118.656	116.663	1.993	-3.056	3.056	25.317	5.063	-0,60	4	-4
6	115.200	116.344	-1.144	-4.200	4.200	29.517	4.919	-0,85	4	-4
7	118.272	116.190	2.082	-2.118	2.118	31.635	4.519	-0,47	4	-4
8	119.424	116.202	3.222	1.104	1.104	32.739	4.092	0,27	4	-4
9	122.040	116.379	5.661	6.765	6.765	39.504	4.389	1,54	4	-4
10	110.304	116.720	-6.416	349	349	39.853	3.985	0,09	4	-4
11	122.092	117.227	4.865	5.214	5.214	45.067	4.097	1,27	4	-4
12	128.992	117.899	11.093	16.306	16.306	61.373	5.114	3,19	4	-4
13	115.968	118.737	-2.769	13.537	13.537	74.911	5.762	2,35	4	-4
14	115.200	119.739	-4.539	8.998	8.998	83.909	5.994	1,50	4	-4
15	120.192	120.907	-715	8.283	8.283	92.192	6.146	1,35	4	-4
16	113.280	122.240	-8.960	-677	677	92.869	5.804	-0,12	4	-4
17	125.568	123.738	1.830	1.153	1.153	94.022	5.531	0,21	4	-4
18	127.104	125.401	1.703	2.856	2.856	96.878	5.382	0,53	4	-4
19	123.648	127.230	-3.582	-725	725	97.604	5.137	-0,14	4	-4
20	123.264	129.223	-5.959	-6.684	6.684	104.288	5.214	-1,28	4	-4
21	133.248	131.382	1.866	-4.818	4.818	109.106	5.196	-0,93	4	-4

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22	129.408	133.706	-4.298	-9.116	9.116	118.223	5.374	-1,70	4	-4
23	134.400	136.195	-1.795	-10.911	10.911	129.133	5.614	-1,94	4	-4
24	149.760	138.849	10.911	0	0	129.133	5.381	0,00	4	-4
300	2934116	2934116	0	-3,20142E-10	129133,4535	1581410,622	123544,6095	0,0022379	96	-96

Lampiran 7. Perhitungan Perencanaan Agregat Metode Transportasi

Permintaan / Kapasitas		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Biaya
Pcs		149.886		122.634		143.073		143.073		95.382		143.073		156.699		143.073		156.699		149.886		143.073		136.260		Rp
Jan	RT	148.896	16.875																							8.910.000
	OT	990	33.750																							135.000
	Persediaan	16.894	2																							33.788
Feb	RT			121.824	16.875																					7.290.000
	OT			810	33.750																					101.250
	Persediaan			16.894	2																					33.788
Mar	RT					142.128	16.875																			8.505.000
	OT					945	33.750																			101.250
	Persediaan					16.894	2																			33.788
Apr	RT							142.128	16.875																	8.505.000
	OT							945	33.750																	101.250
	Persediaan							16.894	2																	33.788
May	RT									94.752	16.875															5.670.000
	OT									630	33.750															67.500
	Persediaan									16.894	2															33.788
Jun	RT											142.128	16.875													8.505.000
	OT											945	33.750													101.250
	Persediaan											16.894	2													33.788
Jul	RT													155.664	16.875											9.315.000
	OT													1.035	33.750											135.000
	Persediaan													16.894	2											33.788
Aug	RT															142.128	16.875									8.505.000
	OT															945	33.750									101.250
	Pesediaan															16.894	2									33.788
Sep	RT																	155.664	16.875							9.315.000
	OT																	1.035	33.750							135.000
	Persediaan																	16.894	2							33.788
Oct	RT																			148.896	16.875					8.910.000
	OT																			990	33.750					135.000
	Persediaan																			16.894	2					33.788
Nov	RT																					142.128	16.875			8.505.000
	OT																					945	33.750			101.250
	Pesediaan																					16.894	2			33.788
Dec	RT																							135.360	16.875	8.100.000
	OT																							900	33.750	101.250
	Persediaan																							16.894	2	33.788
Total Produksi		149.886		122.634		143.073		143.073		95.382		143.073		156.699		143.073		156.699		149.886		143.073		136.260		101.756.706

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Lampiran 8. Perhitungan *Lotting Polypropylene* Teknik LFL

Bahan Baku	Polypropylene (PP)
Persediaan	23.292

Lot Size	LFL
Lead Time	1 Bulan

Periode	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gross Requirement	11.991	9.811	11.446	11.446	7.631	11.446	12.536	11.446	12.536	11.991	11.446	10.901
Schedule Receipts												
Project On Hand	11.301	1.490										
Net Requirement			9.956	11.446	7.631	11.446	12.536	11.446	12.536	11.991	11.446	10.901
Planned Order Receipts			9.956	11.446	7.631	11.446	12.536	11.446	12.536	11.991	11.446	10.901
Planned Order Realease		9.956	11.446	7.631	11.446	12.536	11.446	12.536	11.991	11.446	10.901	

Biaya pesan (Rp)	68.750
Biaya simpan (Rp)	127.910
Biaya pembelian (Rp)	1.937.243.800
Total biaya (Rp)	1.937.440.460

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Lampiran 9. Perhitungan *Lotting Masterbatch* Teknik LFL

Bahan Baku	Masterbatch (MB)
Persediaan	8.087

Lot Size	LFL
Lead Time	1 Bulan

Periode	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gross Requirement	2.998	2.453	2.861	2.861	1.908	2.861	3.134	2.861	3.134	2.998	2.861	2.725
Schedule Receipts												
Project On Hand	5.089	2.636										
Net Requirement			225	2.861	1.908	2.861	3.134	2.861	3.134	2.998	2.861	2.725
Planned Order Receipts			225	2.861	1.908	2.861	3.134	2.861	3.134	2.998	2.861	2.725
Planned Order Realease		225	2.861	1.908	2.861	3.134	2.861	3.134	2.998	2.861	2.725	

Biaya pesan (Rp)	68.750
Biaya simpan (Rp)	84.975
Biaya pembelian (Rp)	549.712.000
Total biaya (Rp)	549.865.725

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Lampiran 10. Perhitungan *Lotting Polypropylene* Teknik EOQ

Bahan Baku	Polypropylene (PP)
Persediaan	23.292

Lot Size	EOQ (12.373)
Lead Time	1 Bulan

Periode	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gross Requirement	11.991	9.811	11.446	11.446	7.631	11.446	12.536	11.446	12.536	11.991	11.446	10.901
Schedule Receipts												
Project On Hand	11.301	1.490	2.417	3.344	8.086	9.013	8.850	9.777	9.614	9.996	10.923	22
Net Requirement			9.956	9.029	4.287	3.360	3.523	2.596	2.759	2.377	1.450	
Planned Order Receipts			12.373	12.373	12.373	12.373	12.373	12.373	12.373	12.373	12.373	
Planned Order Realease		12.373	12.373	12.373	12.373	12.373	12.373	12.373	12.373	12.373		
Biaya pesan (Rp)		61.875										
Biaya simpan (Rp)		840.833										
Biaya pembelian (Rp)		1.904.204.700										
Total biaya (Rp)		1.905.107.408										

Lampiran 11. Perhitungan *Lotting Masterbatch* Teknik EOQ

Bahan Baku	Masterbatch (MB)
Persediaan	8.087

Lot Size	EOQ (5.653)
Lead Time	1 Bulan

Periode	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gross Requirement	2.998	2.453	2.861	2.861	1.908	2.861	3.134	2.861	3.134	2.998	2.861	2.725
Schedule Receipts												
Project On Hand	5.089	2.636	5.428	2.567	659	3.451	317	3.109	5.628	2.630	5.422	2.697
Net Requirement			225			2.202		2.544	25		231	
Planned Order Receipts			5.653			5.653		5.653	5.653		5.653	
Planned Order Realease		5.653			5.653		5.653	5.653		5.653		

Biaya pesan (Rp)	34.375
Biaya simpan (Rp)	477.191
Biaya pembelian (Rp)	607.697.500
Total biaya (Rp)	608.209.066

Lampiran 12. Perhitungan *Lotting Polypropylene* Teknik FPR

Bahan Baku	Polypropylene (PP)
Persediaan	23.292

Lot Size	FPR 2 Periode
Lead Time	1 Bulan

Periode	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gross Requirement	11.991	9.811	11.446	11.446	7.631	11.446	12.536	11.446	12.536	11.991	11.446	10.901
Schedule Receipts												
Project On Hand	11.301	1.490	11.446		11.446		11.446		11.991		10.901	
Net Requirement			9.956				12.536		12.536		11.446	
Planned Order Receipts			21.402		19.077		23.982		24.527		22.347	
Planned Order Realease		21.402		19.077		23.982		24.527		22.347		

Biaya pesan (Rp)	34.375
Biaya simpan (Rp)	700.210
Biaya pembelian (Rp)	1.903.828.500
Total biaya (Rp)	1.904.563.085

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Lampiran 13. Perhitungan *Lotting Masterbatch* Teknik FPR

Bahan Baku	Masterbatch (MB)
Persediaan	8.087

Lot Size	FPR (2 periode)
Lead Time	1 Bulan

Periode	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Gross Requirement	2.998	2.453	2.861	2.861	1.908	2.861	3.134	2.861	3.134	2.998	2.861	2.725
Schedule Receipts												
Project On Hand	5.089	2.636	2.861		2.861		2.861		2.998		2.725	
Net Requirement			225		1.908		3.134		3.134		2.861	
Planned Order Receipts			3.086		4.769		5.995		6.132		5.586	
Planned Order Realease		3.086				5.995		6.132		5.586		

Biaya pesan (Rp)	34.375
Biaya simpan (Rp)	242.314
Biaya pembelian (Rp)	549.712.000
Total biaya (Rp)	549.988.689

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