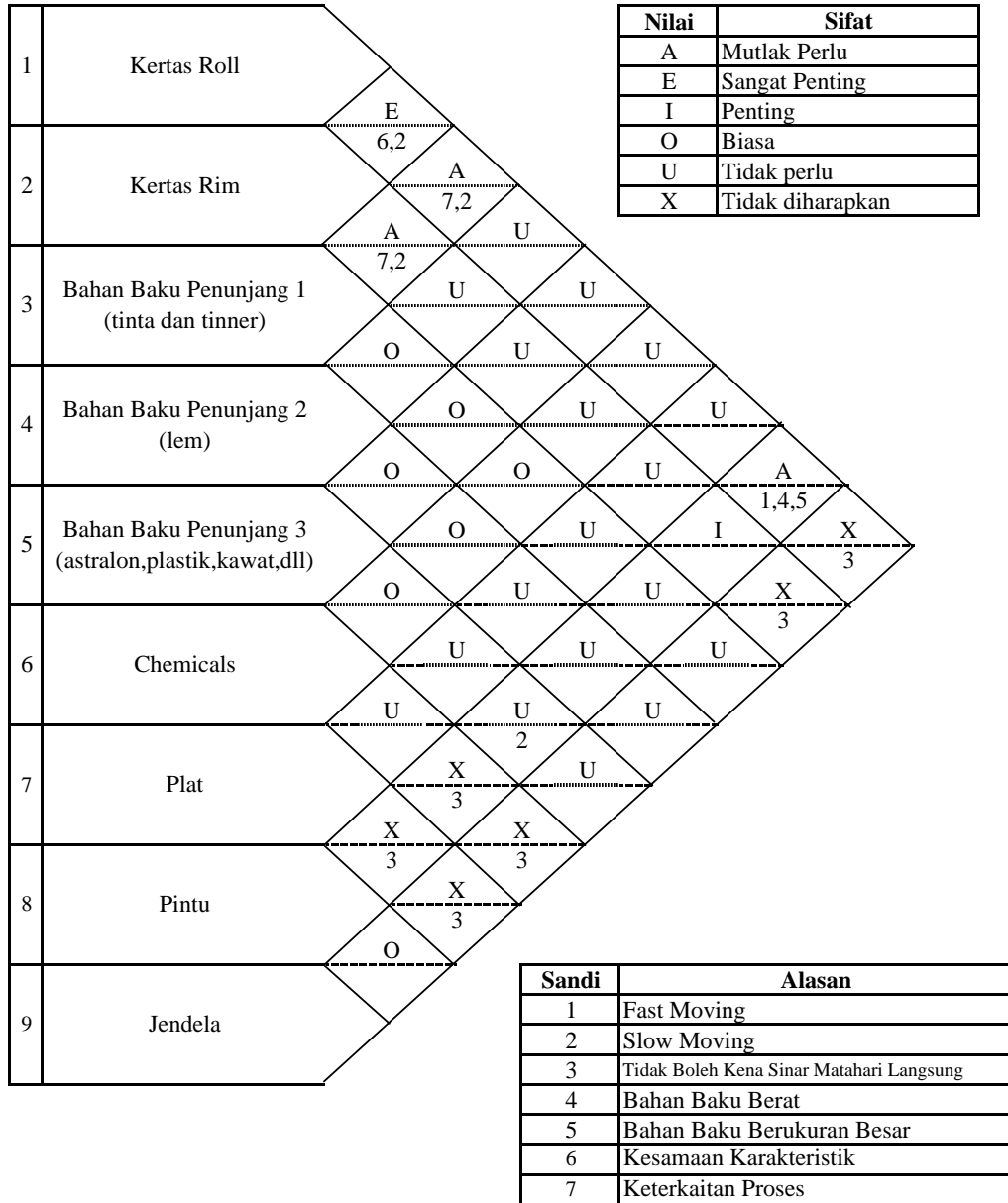


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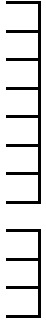
WORKSHEET

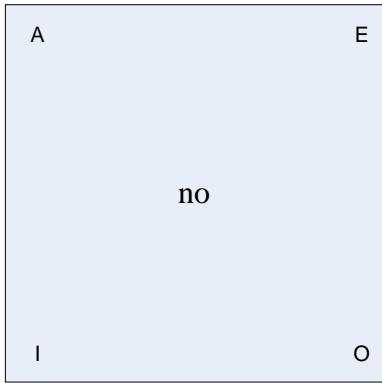
No	Aktivitas	A	E	I	O	U	X
1	Kertas Roll	3,8	2	3	-	4,5,6,7	9
2	Kertas Rim	3,8	1	3	8	4,5,6,7	9
3	Bahan Baku Penunjang 1	-	-	1,2	8	4,5,6,7	9
4	Bahan Baku Penunjang 2	-	-	-	3,5	1,2,6,7,8,9	-
5	Bahan Baku Penunjang 3	-	-	-	3,4,6	1,2,7,8,9	-
6	Chemicals	-	-	-	3,4,5	1,2,7	8,9
7	Rak Plat	-	-	-	-	1,2,3,4,5,6	8,9
8	Pintu	1	-	-	2	3,4,5	6,7,9
9	Jendela	-	-	-	8	3,4,5	1,2,6,7

ARC Bahan baku

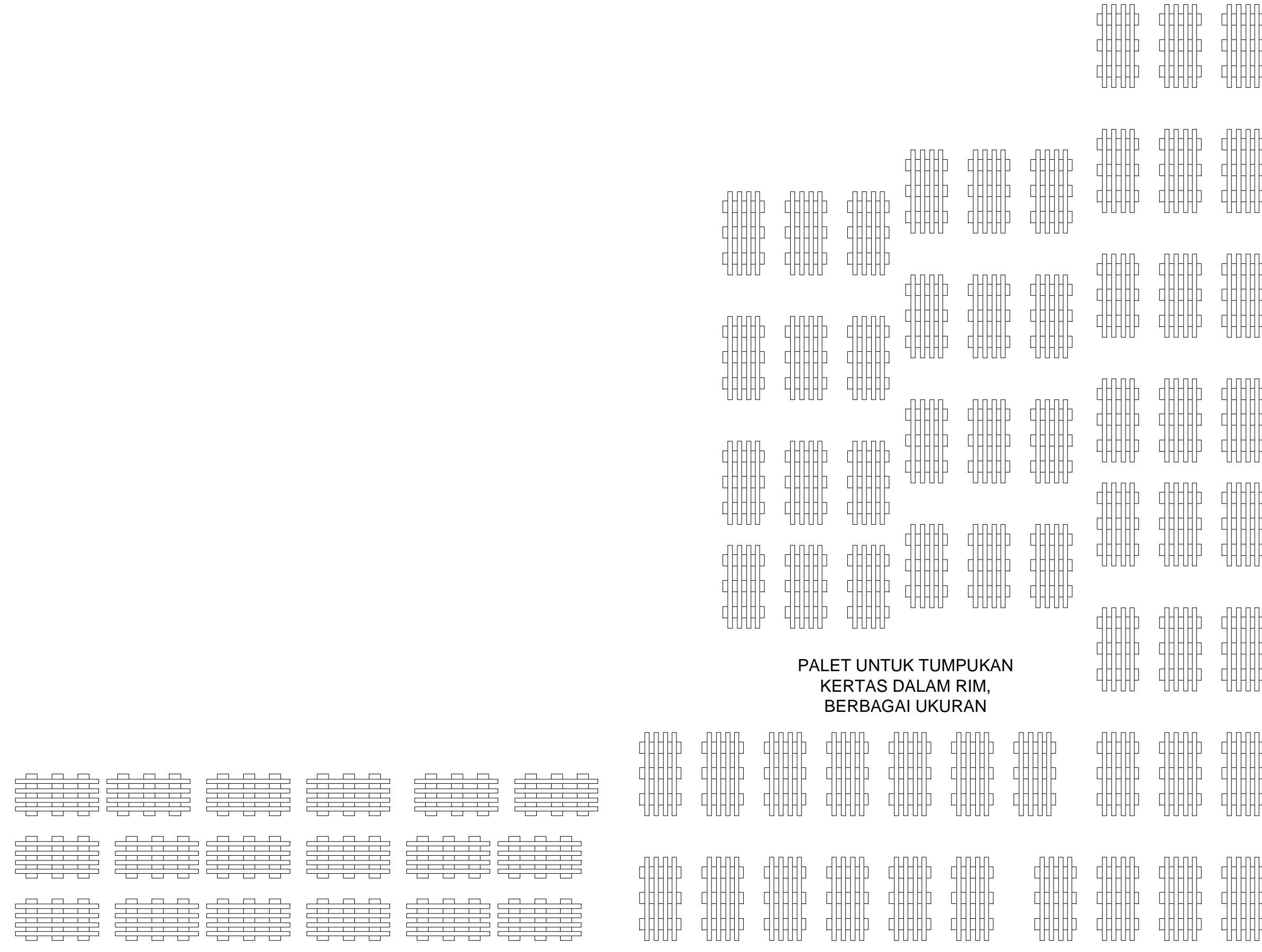
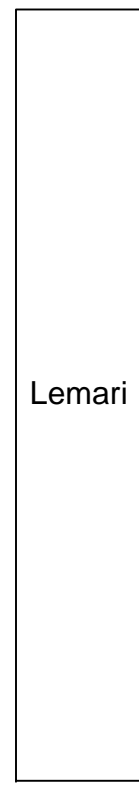
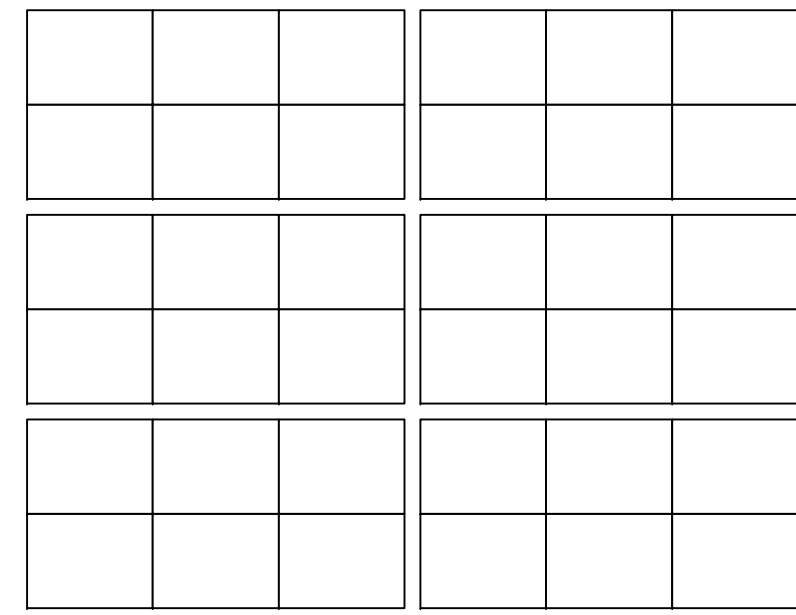
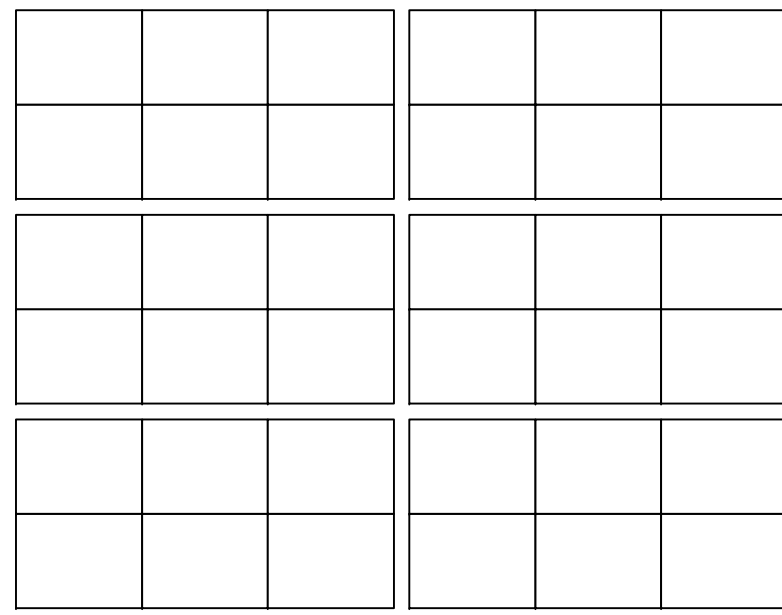
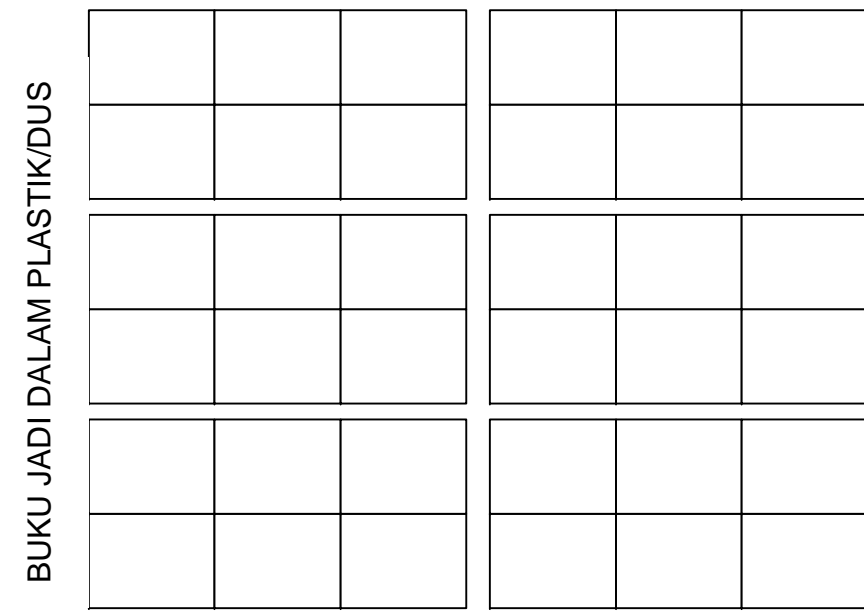
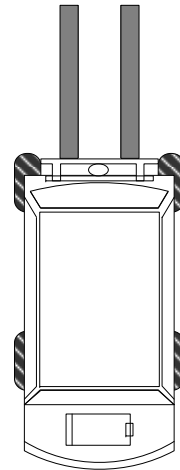
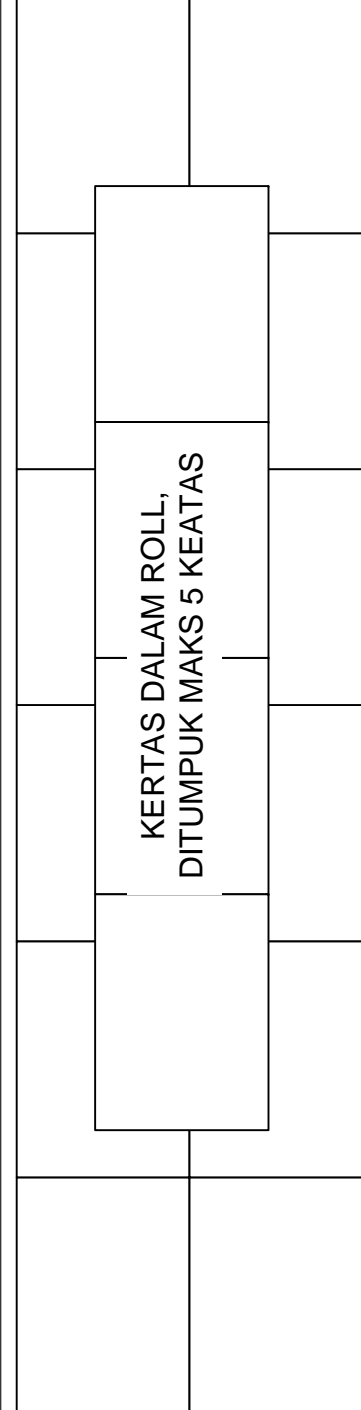
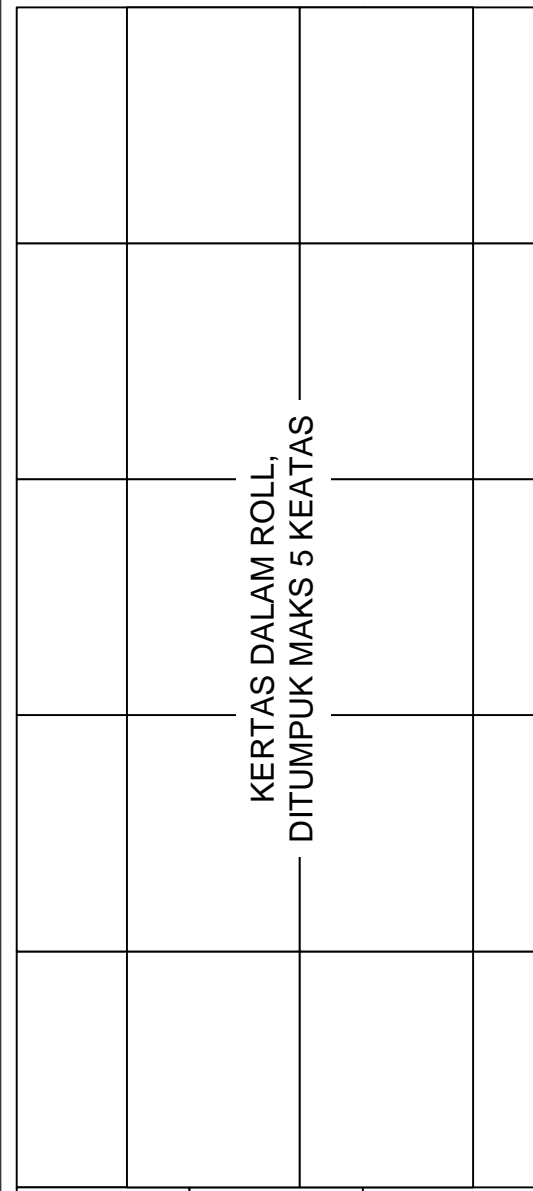


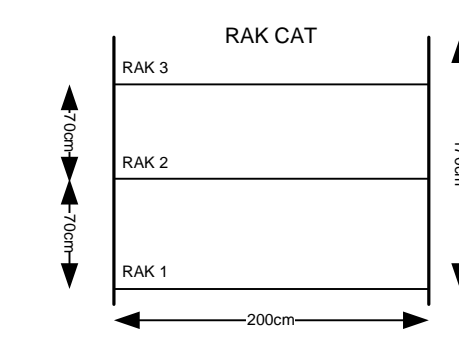
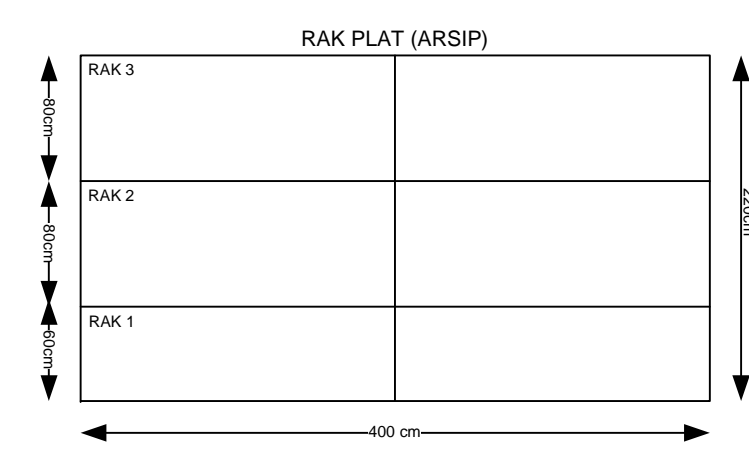
Gambar 5.13
ARC

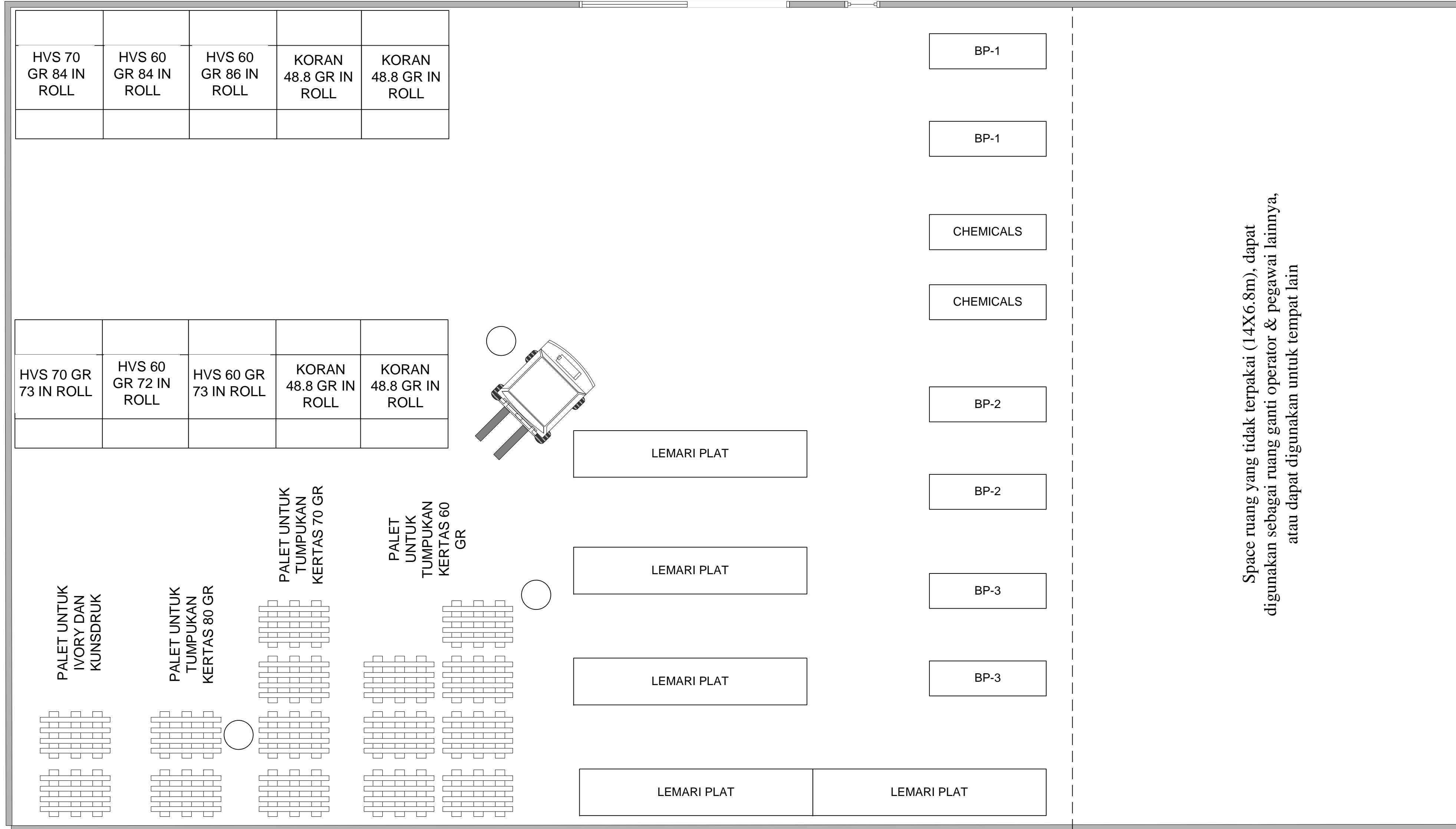




1'-11 5/8"







Space ruang yang tidak terpakai (14X6.8m), dapat digunakan sebagai ruang ganti operator & pegawai lainnya, atau dapat digunakan untuk tempat lain

NO	NAMA BARANG	PERMINTAAN
1	ASTRALON	1152
2	CAHAYA PROCESS BLACK	193
3	CAHAYA PROCESS CYAN	274
4	CAHAYA PROCESS MAGENTA	283
5	CAHAYA PROCESS YELLOW	152
26	COATES WEB BLACK D2	825
26	COLCO AQUA DAMP	163
27	COLCO BLANKET WASH	802
28	FILM	697
29	GUMTAPE 48 MM X 72 ROLL	121
30	ISOPROPHYL ALCOHOL	225
31	KAWAT JAHIT NO.26	472
32	LEM HENKEL Q 2216 / Q20 (PUNGGUNG).	2885
33	LEM HENKEL Q 2432 ID (SAMPING).	1540
34	MASTER PLATE ETCHING STAR	136
35	PANFIX 1 X 72X 6 ROLL	129
36	PLASTIK PE 42X60X0.5	278
37	PLASTIK PE 53X60X0.5	739
38	PLASTIK PE 50X55X0.5	242
39	PLATE POSITIF GTO / RYOBI 510X400X0,15	241
40	PLATE CLEANER	144
41	PLATE NEGATIF WEB 900X576X0,30X40 SD200	339
42	PLATE POSITIF WEB 900X576X30 SOLNA D200	237
43	PLATE POSITIF WEB 995X637X50 SOLNA D300	370
44	PLATE POSITIF A5022 HP80 745X605X30	180
45	PLATE SORS POSIT 1030X770X0.30X50	729
46	RC 73 STABIGUM @ 5 LITER	1335
47	ROEFISIL	67
48	ROLL AIR SORS	61
49	SPARAGUM	70
50	SPRY MONT	114
51	W BLACK II/III OFFSET	2430

Sub Grup	1. HVS 60 GR- 61X86 (RIM)						Rata ^2 Subgrup
1	48.00	47.00	257.00	259.00	351.00	215.00	196.17
2	240.00	272.00	551.00	234.00	78.00	54.00	238.17
3	35.00	34.00	137.00	160.00	670.00	390.00	237.67
4	684.00	256.00	150.00	93.00	157.00	50.00	231.67
5	525.00	144.00	260.00	436.00	510.00	270.00	357.50
6	281.00	144.00	156.00	280.00	60.00	35.00	159.33
Total							1420.50
Rata-rata grand							236.75

P (X1 < X ≤ X2)	Oi	Ei
33.95 - 142.95	11	6.1741
142.95 - 251.95	9	8.4116
251.95 - 360.95	9	8.0005
360.95 - 469.95	2	5.3123
469.95 - 578.95	3	2.4620
578.95 - 687.95	2	0.7962
687.95 - 796.95	0	0.1796

Chi-Square : 4.2881
Derajat Kebebasan : 3

Prob(Chi-Square > 4.2881) = 0.2320

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	2.HVS 60 GR 65X100 CM						Rata ^2 Subgrup
1	385.00	340.00	102.00	230.00	105.00	434.00	266.00
2	172.00	281.00	230.00	100.00	268.00	158.00	201.50
3	404.00	323.00	255.00	258.00	462.00	67.00	294.83
4	400.00	366.00	407.00	314.00	86.00	366.00	323.17
5	390.00	315.00	170.00	73.00	320.00	230.00	249.67
6	244.00	56.00	464.00	135.00	150.00	150.00	199.83
Total							1535.00
Rata-rata grand							255.83

P (X1 < X ≤ X2)	Oi	Ei
55.95 - 124.95	7	3.3138
124.95 - 193.95	6	5.8800
193.95 - 262.95	6	7.7110
262.95 - 331.95	6	7.4743
331.95 - 400.95	6	5.3549
400.95 - 469.95	5	2.8354
469.95 - 538.95	0	1.1094

Chi-Square : 2.5571
Derajat Kebebasan : 3

Prob(Chi-Square > 2.5571) = 0.4645

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	3. HVS 60 GR 72X102 CM						Rata ^2 Subgrup
1	56.00	54.00	142.00	128.00	224.00	438.00	173.67
2	452.00	361.00	143.00	125.00	162.00	55.00	216.33
3	58.00	65.00	286.00	125.00	235.00	228.00	166.17
4	368.00	462.00	234.00	145.00	46.00	68.00	220.50
5	114.00	50.00	80.00	240.00	206.00	315.00	167.50
6	410.00	210.00	170.00	160.00	180.00	83.00	202.17
Total							1146.33
Rata-rata grand							191.06

P (X1 < X ≤ X2)	Oi	Ei
45.95 - 115.95	11	5.4469
115.95 - 185.95	10	7.5848
185.95 - 255.95	7	7.7574
255.95 - 325.95	2	5.8274
325.95 - 395.95	2	3.2150
395.95 - 465.95	4	1.3025
465.95 - 535.95	0	0.3874

Chi-Square : 7.2001
Derajat Kebebasan : 3

Prob(Chi-Square > 7.2001) = 0.0658

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	4. HV 60GR - 79X109 (RIM)						Rata ^2 Subgrup
1	104.00	60.00	24.00	65.00	48.00	68.00	61.50
2	52.00	24.00	26.00	48.00	34.00	42.00	37.67
3	25.00	37.00	76.00	25.00	34.00	53.00	41.67
4	40.00	93.00	62.00	52.00	82.00	35.00	60.67
5	30.00	32.00	89.00	72.00	62.00	112.00	66.17
6	62.00	24.00	19.00	30.00	35.00	60.00	38.33
Total							306.00
Rata-rata grand							51.00

P (X1 < X ≤ X2)	Oi	Ei
18.95 - 34.95	12	5.7910
34.95 - 50.95	7	8.8003
50.95 - 66.95	9	8.8117
66.95 - 82.95	4	5.8137
82.95 - 98.95	2	2.5267
98.95 - 114.95	2	0.7230
114.95 - 130.95	0	0.1361

Chi-Square : 7.1858
Derajat Kebebasan : 3

Prob(Chi-Square > 7.1858) = 0.0662

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	5. HVS 60 GR - 72 IN ROLL						Rata ^2 Subgrup
1	7.00	4.00	6.00	8.00	5.00	7.00	6.17
2	8.00	6.00	9.00	4.00	4.00	6.00	6.17
3	4.00	13.00	11.00	16.00	9.00	12.00	10.83
4	12.00	13.00	12.00	12.00	7.00	10.00	11.00
5	4.00	13.00	11.00	13.00	8.00	6.00	9.17
6	16.00	9.00	9.00	8.00	12.00	8.00	10.33
Total							53.67
Rata-rata grand							8.94

P (X1 < X ≤ X2)	Oi	Ei
3.95 - 6.95	10	7.4805
6.95 - 9.95	12	12.0796
9.95 - 12.95	8	9.4873
12.95 - 15.95	4	3.6209
15.95 - 18.95	2	0.6694
18.95 - 21.95	0	0.0597
21.95 - 24.95	0	0.0025
Chi-Square	: 0.8510	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 0.8510) = 0.6535

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	6. 60GR-73ROLL						Rata ^2 Subgrup
1	3.00	7.00	2.00	2.00	1.00	7.00	3.67
2	1.00	1.00	4.00	5.00	2.00	5.00	3.00
3	6.00	8.00	2.00	3.00	4.00	2.00	4.17
4	4.00	7.00	9.00	6.00	5.00	1.00	5.33
5	6.00	3.00	7.00	9.00	3.00	5.00	5.50
6	8.00	6.00	2.00	4.00	2.00	2.00	4.00
Total							25.67
Rata-rata grand							4.28

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	12	7.4494
2.95 - 4.95	8	11.3827
4.95 - 6.95	8	9.1842
6.95 - 8.95	6	3.9109
8.95 - 10.95	2	0.8772
10.95 - 12.95	0	0.1033
12.95 - 14.95	0	0.0064
Chi-Square	: 4.0463	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 4.0463) = 0.1322

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	7. 60GR-84ROLL						Rata ^2 Subgrup
1	5.00	2.00	5.00	8.00	5.00	2.00	4.50
2	14.00	14.00	13.00	11.00	5.00	5.00	10.33
3	3.00	4.00	12.00	5.00	2.00	9.00	5.83
4	7.00	13.00	14.00	6.00	5.00	8.00	8.83
5	8.00	6.00	9.00	11.00	12.00	7.00	8.83
6	6.00	13.00	14.00	14.00	8.00	6.00	10.17
Total							48.50
Rata-rata grand							8.08

P (X1 < X ≤ X2)	Oi	Ei
1.95 - 4.95	5	5.5141
4.95 - 7.95	13	9.8856
7.95 - 10.95	6	10.1341
10.95 - 13.95	7	5.9408
13.95 - 16.95	5	1.9898
16.95 - 19.95	0	0.3802
19.95 - 22.95	0	0.0413

Chi-Square : 4.3088
Derajat Kebebasan : 3

Prob(Chi-Square > 4.3088) = 0.2300

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	8. 60GR-86ROLL						Rata ^2 Subgrup
1	5.00	2.00	6.00	4.00	4.00	2.00	3.83
2	8.00	9.00	5.00	3.00	12.00	11.00	8.00
3	9.00	9.00	4.00	4.00	7.00	8.00	6.83
4	5.00	8.00	12.00	6.00	5.00	9.00	7.50
5	4.00	9.00	4.00	6.00	8.00	5.00	6.00
6	12.00	12.00	10.00	9.00	5.00	3.00	8.50
Total							40.67
Rata-rata grand							6.78

P (X1 < X ≤ X2)	Oi	Ei
1.95 - 3.95	4	4.2870
3.95 - 5.95	12	7.8669
5.95 - 7.95	4	9.3964
7.95 - 9.95	10	7.3062
9.95 - 11.95	2	3.6976
11.95 - 13.95	4	1.2174
13.95 - 15.95	0	0.2605

Chi-Square : 5.4408
Derajat Kebebasan : 3

Prob(Chi-Square > 5.4408) = 0.1422

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	9. HVS 70 GR - 61X86 (RIM)						Rata ^2 Subgrup
1	81.00	36.00	93.00	203.00	123.00	60.00	99.33
2	25.00	200.00	146.00	155.00	143.00	85.00	125.67
3	134.00	121.00	25.00	57.00	187.00	54.00	96.33
4	34.00	180.00	57.00	172.00	130.00	72.00	107.50
5	27.00	25.00	35.00	100.00	145.00	140.00	78.67
6	110.00	110.00	87.00	98.00	123.00	42.00	95.00
Total							602.50
Rata-rata grand							100.42

P (X1 < X ≤ X2)	Oi	Ei
24.95 - 54.95	9	4.2727
54.95 - 84.95	5	6.7608
84.95 - 114.95	7	7.9029
114.95 - 144.95	7	6.8248
144.95 - 174.95	4	4.3540
174.95 - 204.95	4	2.0518
204.95 - 234.95	0	0.7141

Chi-Square : 1.0140
Derajat Kebebasan : 3

Prob(Chi-Square > 1.0140) = 0.7979

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	10. HVS 70 GR - 65X100 (RIM)						Rata ^2 Subgrup
1	23.00	34.00	32.00	43.00	23.00	12.00	27.83
2	25.00	36.00	71.00	24.00	34.00	52.00	40.33
3	20.00	44.00	74.00	43.00	23.00	53.00	42.83
4	29.00	24.00	76.00	55.00	55.00	32.00	45.17
5	31.00	23.00	64.00	12.00	32.00	20.00	30.33
6	32.00	62.00	64.00	64.00	36.00	43.00	50.17
Total							236.67
Rata-rata grand							39.44

P (X1 < X ≤ X2)	Oi	Ei
11.95 - 22.95	4	4.1831
22.95 - 33.95	13	7.2318
33.95 - 44.95	8	8.6781
44.95 - 55.95	4	7.2291
55.95 - 66.95	4	4.1800
66.95 - 77.95	3	1.6773
77.95 - 88.95	0	0.4669

Chi-Square : 4.3003
Derajat Kebebasan : 3

Prob(Chi-Square > 4.3003) = 0.2308

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	11.70GR - 73 IN ROLL						Rata ^2 Subgrup
1	5.00	4.00	2.00	6.00	3.00	5.00	4.17
2	3.00	1.00	4.00	5.00	2.00	5.00	3.33
3	2.00	4.00	1.00	4.00	2.00	1.00	2.33
4	2.00	9.00	8.00	7.00	7.00	9.00	7.00
5	8.00	6.00	3.00	5.00	2.00	8.00	5.33
6	4.00	3.00	3.00	5.00	6.00	6.00	4.50
Total							26.67
Rata-rata grand							4.44

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	9	6.9720
2.95 - 4.95	10	11.7967
4.95 - 6.95	10	9.8745
6.95 - 8.95	5	4.0866
8.95 - 10.95	2	0.8339
10.95 - 12.95	0	0.0835
12.95 - 14.95	0	0.0041
Chi-Square	: 1.6573	
Derajat Kebebasan	: 3	

Prob(Chi-Square > 1.6573) = 0.6465

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	12. HVS 70GR 79X109CM						Rata ^2 Subgrup
1	20.00	34.00	34.00	52.00	35.00	46.00	36.83
2	36.00	34.00	47.00	27.00	47.00	57.00	41.33
3	20.00	23.00	35.00	42.00	35.00	25.00	30.00
4	45.00	47.00	63.00	32.00	12.00	32.00	38.50
5	20.00	70.00	16.00	25.00	40.00	92.00	43.83
6	85.00	18.00	36.00	12.00	65.00	23.00	39.83
Total							230.33
Rata-rata grand							38.39

P (X1 < X ≤ X2)	Oi	Ei
11.95 - 25.95	11	6.2749
25.95 - 39.95	11	9.9272
39.95 - 53.95	8	9.3719
53.95 - 67.95	3	5.2793
67.95 - 81.95	1	1.7732
81.95 - 95.95	2	0.3547
95.95 - 109.95	0	0.0422
Chi-Square	: 4.1569	
Derajat Kebebasan	: 3	

Prob(Chi-Square > 4.1569) = 0.2450

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	13. 70GR - 84 IN ROLL						Rata ^2 Subgrup
1	9.00	7.00	4.00	7.00	11.00	4.00	7.00
2	11.00	16.00	13.00	14.00	16.00	14.00	14.00
3	5.00	4.00	4.00	5.00	6.00	8.00	5.33
4	13.00	16.00	12.00	15.00	9.00	5.00	11.67
5	5.00	5.00	4.00	7.00	7.00	10.00	6.33
6	10.00	8.00	6.00	13.00	9.00	9.00	9.17
Total							53.50
Rata-rata grand							8.92

P (X1 < X ≤ X2)	Oi	Ei
3.95 - 6.95	12	7.3881
6.95 - 9.95	10	10.6295
9.95 - 12.95	5	8.7804
12.95 - 15.95	6	4.1630
15.95 - 18.95	3	1.1316
18.95 - 21.95	0	0.1760
21.95 - 24.95	0	0.0156
Chi-Square	: 6.7943	
Derajat Kebebasan	: 3	

Prob(Chi-Square > 6.7943) = 0.0788

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	14. HVS 80GR 61X86 (RIM)						Rata ^2 Subgrup
1	18.00	31.00	30.00	46.00	18.00	37.00	30.00
2	22.00	70.00	34.00	37.00	24.00	48.00	39.17
3	27.00	47.00	48.00	54.00	37.00	29.00	40.33
4	47.00	52.00	61.00	78.00	17.00	35.00	48.33
5	29.00	47.00	25.00	35.00	42.00	31.00	34.83
6	25.00	32.00	35.00	31.00	64.00	31.00	36.33
Total							229.00
Rata-rata grand							38.17

P (X1 < X ≤ X2)	Oi	Ei
16.95 - 27.95	8	6.0821
27.95 - 38.95	15	10.0578
38.95 - 49.95	7	9.6774
49.95 - 60.95	2	5.4175
60.95 - 71.95	3	1.7630
71.95 - 82.95	1	0.3330
82.95 - 93.95	0	0.0364
Chi-Square	: 4.0921	
Derajat Kebebasan	: 3	

Prob(Chi-Square > 4.0921) = 0.2517

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	15. HVS 80GR 65X100						Rata ^2 Subgrup
1	25.00	25.00	56.00	63.00	36.00	26.00	38.50
2	20.00	40.00	60.00	24.00	20.00	56.00	36.67
3	41.00	54.00	23.00	42.00	35.00	35.00	38.33
4	32.00	52.00	24.00	27.00	34.00	35.00	34.00
5	35.00	12.00	35.00	32.00	50.00	78.00	40.33
6	51.00	22.00	40.00	48.00	74.00	85.00	53.33
Total							241.17
Rata-rata grand							40.19

P (X1 < X ≤ X2)	Oi	Ei
11.95 - 24.95	7	4.9676
24.95 - 37.95	13	9.3185
37.95 - 50.95	6	10.2224
50.95 - 63.95	7	6.5590
63.95 - 76.95	1	2.4599
76.95 - 89.95	2	0.5385
89.95 - 102.95	0	0.0687

Chi-Square : 4.0440
Derajat Kebebasan : 2

Prob(Chi-Square > 4.0440) = 0.1324

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	16. IVORY 170GR 66X90						Rata ^2 Subgrup
1	49.00	86.00	74.00	78.00	44.00	45.00	62.67
2	100.00	90.00	56.00	40.00	85.00	10.00	63.50
3	30.00	32.00	34.00	21.00	76.00	35.00	38.00
4	21.00	26.00	77.00	36.00	32.00	22.00	35.67
5	24.00	32.00	22.00	10.00	50.00	64.00	33.67
6	46.00	47.00	53.00	23.00	54.00	32.00	42.50
Total							276.00
Rata-rata grand							46.00

P (X1 < X ≤ X2)	Oi	Ei
9.95 - 25.95	8	4.8635
25.95 - 41.95	10	8.3406
41.95 - 57.95	9	9.3004
57.95 - 73.95	1	6.7439
73.95 - 89.95	6	3.1792
89.95 - 105.95	2	0.9738
105.95 - 121.95	0	0.1937

Chi-Square : 2.1457
Derajat Kebebasan : 2

Prob(Chi-Square > 2.1457) = 0.3420

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	17.IVORY 170GR - 79X109						Rata ^2 Subgrup
1	46.00	32.00	50.00	32.00	88.00	170.00	69.67
2	122.00	59.00	85.00	22.00	32.00	124.00	74.00
3	165.00	47.00	45.00	112.00	121.00	66.00	92.67
4	105.00	77.00	27.00	49.00	132.00	48.00	73.00
5	29.00	42.00	88.00	142.00	50.00	37.00	64.67
6	41.00	54.00	62.00	77.00	108.00	81.00	70.50
Total							444.50
Rata-rata grand							74.08

P (X1 < X ≤ X2)	Oi	Ei
21.95 - 46.95	11	5.4857
46.95 - 71.95	9	8.1570
71.95 - 96.95	6	8.4154
96.95 - 121.95	4	6.0238
121.95 - 146.95	4	2.9913
146.95 - 171.95	2	1.0301
171.95 - 196.95	0	0.2459

Chi-Square : 6.3318
Derajat Kebebasan : 3

Prob(Chi-Square > 6.3318) = 0.0965

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	18. KORAN 84 IN ROLL						Rata ^2 Subgrup
1	12.00	17.00	5.00	7.00	7.00	12.00	10.00
2	20.00	14.00	5.00	5.00	12.00	18.00	12.33
3	5.00	5.00	9.00	18.00	11.00	12.00	10.00
4	20.00	8.00	6.00	7.00	10.00	13.00	10.67
5	11.00	14.00	8.00	8.00	16.00	19.00	12.67
6	9.00	17.00	5.00	8.00	16.00	19.00	12.33
Total							68.00
Rata-rata grand							11.33

P (X1 < X ≤ X2)	Oi	Ei
4.95 - 7.95	10	5.3460
7.95 - 10.95	7	7.9592
10.95 - 13.95	7	8.3262
13.95 - 16.95	4	6.1204
16.95 - 19.95	6	3.1609
19.95 - 22.95	2	1.1466
22.95 - 25.95	0	0.2921

Chi-Square : 4.5312
Derajat Kebebasan : 3

Prob(Chi-Square > 4.5312) = 0.2095

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	19. KUNSDRUK 210GR - 79X109						Rata ^2 Subgrup
1	22.00	19.00	23.00	34.00	46.00	23.00	27.83
2	12.00	59.00	13.00	19.00	37.00	18.00	26.33
3	16.00	28.00	20.00	50.00	30.00	16.00	26.67
4	10.00	40.00	13.00	29.00	14.00	18.00	20.67
5	32.00	48.00	32.00	47.00	40.00	56.00	42.50
6	75.00	82.00	60.00	70.00	40.00	40.00	61.17
Total							205.17
Rata-rata grand							34.19

P (X1 < X ≤ X2)	Oi	Ei
9.95 - 22.95	13	6.3378
22.95 - 35.95	8	9.3647
35.95 - 48.95	8	8.8110
48.95 - 61.95	4	5.2785
61.95 - 74.95	1	2.0126
74.95 - 87.95	2	0.4880
87.95 - 100.95	0	0.0752

Chi-Square : 7.3696
Derajat Kebebasan : 3

Prob(Chi-Square > 7.3696) = 0.0610

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	20. ASTRALON						Rata ^2 Subgrup
1	25.00	19.00	21.00	22.00	18.00	23.00	21.33
2	34.00	31.00	35.00	28.00	25.00	42.00	32.50
3	24.00	30.00	30.00	32.00	24.00	31.00	28.50
4	30.00	40.00	50.00	49.00	38.00	29.00	39.33
5	31.00	30.00	37.00	34.00	44.00	34.00	35.00
6	46.00	43.00	38.00	40.00	33.00	25.00	37.50
Total							194.17
Rata-rata grand							32.36

P (X1 < X ≤ X2)	Oi	Ei
17.95 - 23.95	5	4.1046
23.95 - 29.95	7	8.2988
29.95 - 35.95	13	10.1537
35.95 - 41.95	5	7.5199
41.95 - 47.95	4	3.3699
47.95 - 53.95	2	0.9130
53.95 - 59.95	0	0.1493

Chi-Square : 0.8869
Derajat Kebebasan : 2

Prob(Chi-Square > 0.8869) = 0.6418

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	21. CAHAYA PROCESS BLACK						Rata ^2 Subgrup
1	5.00	4.00	5.00	6.00	5.00	8.00	5.50
2	7.00	4.00	6.00	5.00	9.00	4.00	5.83
3	2.00	3.00	4.00	5.00	6.00	7.00	4.50
4	1.00	5.00	6.00	7.00	5.00	6.00	5.00
5	8.00	4.00	5.00	3.00	4.00	6.00	5.00
6	8.00	5.00	4.00	9.00	10.00	2.00	6.33
Total							32.17
Rata-rata grand							5.36

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	3	3.7317
2.95 - 4.95	9	10.8424
4.95 - 6.95	15	13.0011
6.95 - 8.95	6	6.4418
8.95 - 10.95	3	1.3128
10.95 - 12.95	0	0.1091
12.95 - 14.95	0	0.0037

Chi-Square : 0.9250
Derajat Kebebasan : 2

Prob(Chi-Square > 0.9250) = 0.6297

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	22. CAHAYA PROCESS CYAN						Rata ^2 Subgrup
1	6.00	7.00	5.00	6.00	4.00	10.00	6.33
2	12.00	7.00	9.00	10.00	9.00	7.00	9.00
3	6.00	12.00	5.00	7.00	6.00	13.00	8.17
4	4.00	10.00	9.00	10.00	10.00	10.00	8.83
5	9.00	8.00	8.00	7.00	6.00	4.00	7.00
6	8.00	5.00	9.00	4.00	5.00	7.00	6.33
Total							45.67
Rata-rata grand							7.61

P (X1 < X ≤ X2)	Oi	Ei
3.95 - 5.95	8	6.5217
5.95 - 7.95	11	11.1029
7.95 - 9.95	8	9.9611
9.95 - 11.95	6	4.7083
11.95 - 13.95	3	1.1703
13.95 - 15.95	0	0.1525
15.95 - 17.95	0	0.0104

Chi-Square : 2.1709
Derajat Kebebasan : 3

Prob(Chi-Square > 2.1709) = 0.5377

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	23. CAHAYA PROCESS MAGENTA						Rata ^2 Subgrup
1	5.00	10.00	12.00	4.00	6.00	8.00	7.50
2	9.00	10.00	14.00	10.00	9.00	8.00	10.00
3	8.00	9.00	7.00	5.00	9.00	8.00	7.67
4	6.00	5.00	5.00	9.00	7.00	8.00	6.67
5	1.00	5.00	8.00	6.00	7.00	8.00	5.83
6	9.00	12.00	14.00	10.00	10.00	5.00	10.00
Total							47.67
Rata-rata grand							7.94

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 3.95	1	2.4280
3.95 - 6.95	10	10.2867
6.95 - 9.95	16	14.7172
9.95 - 12.95	7	7.1431
12.95 - 15.95	2	1.1657
15.95 - 18.95	0	0.0628
18.95 - 21.95	0	0.0011
Chi-Square	: 0.3901	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 0.3901) = 0.8228

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	24. CAHAYA PROCESS YELLOW						Rata ^2 Subgrup
1	3.00	4.00	5.00	6.00	4.00	2.00	4.00
2	3.00	5.00	2.00	3.00	4.00	6.00	3.83
3	2.00	5.00	4.00	6.00	4.00	6.00	4.50
4	5.00	2.00	3.00	4.00	5.00	6.00	4.17
5	2.00	2.00	4.00	6.00	5.00	6.00	4.17
6	5.00	5.00	4.00	2.00	7.00	5.00	4.67
Total							25.34
Rata-rata grand							4.11

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	7	7.4611
2.95 - 4.95	12	17.1131
4.95 - 6.95	16	9.3990
6.95 - 8.95	1	1.2139
8.95 - 10.95	0	0.0352
10.95 - 12.95	0	0.0002
12.95 - 14.95	0	0.0000
Chi-Square	: 4.2563	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 4.2563) = 0.1191

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	25. COATES WEB BLACK (KG)						Rata ^2 Subgrup
1	10.00	20.00	15.00	20.00	25.00	15.00	17.50
2	20.00	25.00	30.00	20.00	25.00	15.00	22.50
3	15.00	20.00	15.00	20.00	30.00	35.00	22.50
4	30.00	35.00	40.00	40.00	35.00	25.00	34.17
5	20.00	15.00	20.00	20.00	15.00	10.00	16.67
6	20.00	25.00	25.00	30.00	35.00	30.00	27.50
Total							140.84
Rata-rata grand							23.47

P (X1 < X ≤ X2)	Oi	Ei
9.95 - 15.95	9	4.5361
15.95 - 21.95	10	8.8989
21.95 - 27.95	6	10.2983
27.95 - 33.95	5	7.0318
33.95 - 39.95	4	2.8314
39.95 - 45.95	2	0.6715
45.95 - 51.95	0	0.0937
Chi-Square	: 2.6205	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 2.6205) = 0.2698

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	26.COLCO AQUA DAMP						Rata ^2 Subgrup
1	10.00	5.00	6.00	4.00	3.00	2.00	5.00
2	3.00	2.00	4.00	5.00	5.00	7.00	4.33
3	8.00	9.00	3.00	4.00	5.00	3.00	5.33
4	8.00	6.00	2.00	1.00	3.00	4.00	4.00
5	1.00	2.00	1.00	5.00	5.00	4.00	3.00
6	6.00	6.00	5.00	7.00	5.00	4.00	5.50
Total							27.17
Rata-rata grand							4.53

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	7	6.6661
2.95 - 4.95	11	12.1097
4.95 - 6.95	12	10.3225
6.95 - 8.95	4	4.1260
8.95 - 10.95	2	0.7706
10.95 - 12.95	0	0.0669
12.95 - 14.95	0	0.0027
Chi-Square	: 0.5993	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 0.5993) = 0.7411

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	27. COLCO BLANKET WASH (KG)						Rata ^2 Subgrup
1	20.00	23.00	16.00	19.00	27.00	18.00	20.50
2	15.00	21.00	24.00	26.00	27.00	20.00	22.17
3	18.00	15.00	19.00	26.00	28.00	21.00	21.17
4	27.00	20.00	18.00	19.00	21.00	26.00	21.83
5	16.00	24.00	27.00	29.00	24.00	25.00	24.17
6	23.00	22.00	20.00	26.00	25.00	27.00	23.83
Total							133.67
Rata-rata grand							22.28

P (X1 < X ≤ X2)	Oi	Ei
14.95 - 17.95	4	3.8455
17.95 - 20.95	10	8.2651
20.95 - 23.95	6	10.4509
23.95 - 26.95	9	7.7770
26.95 - 29.95	7	3.4044
29.95 - 32.95	0	0.8757
32.95 - 35.95	0	0.1322
Chi-Square	: 3.3818	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 3.3818) = 0.1844

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	28. FILM (LEMBAR)						Rata ^2 Subgrup
1	21.00	20.00	17.00	15.00	16.00	18.00	17.83
2	19.00	22.00	17.00	16.00	20.00	24.00	19.67
3	27.00	23.00	19.00	21.00	22.00	15.00	21.17
4	14.00	16.00	17.00	19.00	26.00	24.00	19.33
5	23.00	28.00	21.00	26.00	24.00	25.00	24.50
6	27.00	20.00	19.00	6.00	9.00	11.00	15.33
Total							117.83
Rata-rata grand							19.64

P (X1 < X ≤ X2)	Oi	Ei
5.95 - 9.95	2	0.8806
9.95 - 13.95	1	3.7018
13.95 - 17.95	9	8.5930
17.95 - 21.95	11	11.0319
21.95 - 25.95	8	7.8371
25.95 - 29.95	5	3.0787
29.95 - 33.95	0	0.6676
Chi-Square	: 0.2782	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 0.2782) = 0.8702

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	29. GUMTAPE (ROLL)						Rata ^2 Subgrup
1	3.00	2.00	4.00	2.00	3.00	5.00	3.17
2	4.00	2.00	1.00	1.00	1.00	3.00	2.00
3	2.00	5.00	3.00	7.00	2.00	1.00	3.33
4	1.00	4.00	5.00	8.00	5.00	6.00	4.83
5	4.00	2.00	3.00	2.00	4.00	7.00	3.67
6	2.00	4.00	3.00	5.00	4.00	1.00	3.17
Total							20.17
Rata-rata grand							3.36

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	14	11.3595
2.95 - 4.95	13	14.1128
4.95 - 6.95	6	6.0938
6.95 - 8.95	3	0.9058
8.95 - 10.95	0	0.0456
10.95 - 12.95	0	0.0008
12.95 - 14.95	0	0.0000
Chi-Square	: 1.2435	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 1.2435) = 0.5370

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	30. ISOPROPHYL ALCOHOL						Rata ^2 Subgrup
1	2.00	4.00	3.00	5.00	4.00	6.00	4.00
2	7.00	10.00	8.00	8.00	6.00	4.00	7.17
3	7.00	4.00	4.00	8.00	9.00	12.00	7.33
4	4.00	7.00	5.00	8.00	6.00	4.00	5.67
5	7.00	5.00	3.00	7.00	8.00	9.00	6.50
6	7.00	8.00	6.00	9.00	7.00	3.00	6.67
Total							37.33
Rata-rata grand							6.22

P (X1 < X ≤ X2)	Oi	Ei
1.95 - 3.95	4	4.6472
3.95 - 5.95	10	10.5426
5.95 - 7.95	11	11.6288
7.95 - 9.95	9	6.2389
9.95 - 11.95	1	1.6245
11.95 - 13.95	1	0.2044
13.95 - 15.95	0	0.0124
Chi-Square	: 1.1823	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 1.1823) = 0.5537

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	31. KAWAT JAHIT NO.26 (ROLL)						Rata ^2 Subgrup
1	11.00	12.00	11.00	10.00	16.00	15.00	12.50
2	11.00	8.00	13.00	12.00	16.00	14.00	12.33
3	16.00	14.00	19.00	12.00	7.00	13.00	13.50
4	17.00	15.00	13.00	10.00	9.00	11.00	12.50
5	15.00	16.00	12.00	11.00	12.00	10.00	12.67
6	13.00	13.00	16.00	15.00	18.00	14.00	14.83
Total							78.33
Rata-rata grand							13.06

P (X1 < X ≤ X2)	Oi	Ei
6.95 - 9.95	3	4.2393
9.95 - 12.95	13	12.7128
12.95 - 15.95	12	13.1951
15.95 - 18.95	7	4.7426
18.95 - 21.95	1	0.5836
21.95 - 24.95	0	0.0241
24.95 - 27.95	0	0.0003
Chi-Square	: 1.4736	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 1.4736) = 0.4787

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	32. LEM PUNGGUNG (KG)						Rata ^2 Subgrup
1	75.00	100.00	50.00	65.00	75.00	100.00	77.50
2	110.00	50.00	50.00	85.00	80.00	75.00	75.00
3	55.00	60.00	85.00	85.00	70.00	90.00	74.17
4	90.00	95.00	100.00	55.00	75.00	110.00	87.50
5	105.00	65.00	70.00	80.00	85.00	90.00	82.50
6	105.00	95.00	95.00	70.00	60.00	65.00	81.67
Total							478.33
Rata-rata grand							79.72

P (X1 < X ≤ X2)	Oi	Ei
49.95 - 60.95	7	3.5566
60.95 - 71.95	6	6.6661
71.95 - 82.95	6	8.6460
82.95 - 93.95	7	7.7609
93.95 - 104.95	6	4.8211
104.95 - 115.95	4	2.0721
115.95 - 126.95	0	0.6160
Chi-Square	: 2.4651	
Derajat Kebebasan	: 3	

Prob(Chi-Square > 2.4651) = 0.4816

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	33. LEM HENKEL Q 4232 ID						Rata ^2 Subgrup
1	25.00	15.00	25.00	35.00	25.00	45.00	28.33
2	50.00	25.00	35.00	35.00	25.00	50.00	36.67
3	50.00	25.00	50.00	50.00	55.00	40.00	45.00
4	40.00	50.00	30.00	25.00	45.00	60.00	41.67
5	45.00	45.00	30.00	25.00	45.00	75.00	44.17
6	75.00	90.00	50.00	45.00	45.00	60.00	60.83
Total							256.67
Rata-rata grand							42.78

P (X1 < X ≤ X2)	Oi	Ei
14.95 - 27.95	9	4.9496
27.95 - 40.95	7	9.8693
40.95 - 53.95	14	10.7452
53.95 - 66.95	3	6.3890
66.95 - 79.95	2	2.0724
79.95 - 92.95	1	0.3659
92.95 - 105.95	0	0.0351
Chi-Square	: 2.0046	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 2.0046) = 0.3670

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	34. MASTER PLATE ETCHING (LITER)						Rata ^2 Subgrup
1	2.00	3.00	2.00	1.00	2.00	2.00	2.00
2	3.00	5.00	4.00	2.00	3.00	5.00	3.67
3	4.00	6.00	7.00	5.00	4.00	2.00	4.67
4	5.00	3.00	4.00	6.00	5.00	2.00	4.17
5	1.00	2.00	7.00	5.00	6.00	4.00	4.17
6	2.00	3.00	5.00	4.00	6.00	5.00	4.17
Total							22.83
Rata-rata grand							3.81

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	11	9.3878
2.95 - 4.95	11	16.0255
4.95 - 6.95	12	7.8339
6.95 - 8.95	2	1.0814
8.95 - 10.95	0	0.0409
10.95 - 12.95	0	0.0004
12.95 - 14.95	0	0.0000
Chi-Square	: 4.6927	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 4.6927) = 0.0957

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	35. PANFIX (ROLL)						Rata ^2 Subgrup
1	4.00	5.00	4.00	3.00	1.00	2.00	3.17
2	3.00	5.00	4.00	5.00	3.00	2.00	3.67
3	1.00	2.00	3.00	2.00	4.00	5.00	2.83
4	6.00	5.00	2.00	5.00	4.00	6.00	4.67
5	3.00	6.00	4.00	2.00	1.00	2.00	3.00
6	2.00	3.00	6.00	5.00	4.00	4.00	4.00
Total							21.33
Rata-rata grand							3.56

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 1.95	3	3.6786
1.95 - 2.95	8	7.1906
2.95 - 3.95	6	9.2580
3.95 - 4.95	8	7.8529
4.95 - 5.95	7	4.3877
5.95 - 6.95	4	1.6143
6.95 - 7.95	0	0.3909
Chi-Square :		4.4709
Derajat Kebebasan :		3

Prob(Chi-Square > 4.4709) = 0.2149

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	36. PLASTIK 42X60X0.5						Rata ^2 Subgrup
1	7.00	8.00	4.00	6.00	5.00	8.00	6.33
2	9.00	10.00	10.00	10.00	12.00	8.00	9.83
3	8.00	9.00	12.00	10.00	9.00	8.00	9.33
4	7.00	8.00	7.00	7.00	9.00	4.00	7.00
5	5.00	4.00	6.00	4.00	8.00	4.00	5.17
6	9.00	10.00	11.00	9.00	8.00	7.00	9.00
Total							46.66
Rata-rata grand							7.77

P (X1 < X ≤ X2)	Oi	Ei
3.95 - 5.95	7	5.8601
5.95 - 7.95	7	11.3829
7.95 - 9.95	14	10.8098
9.95 - 11.95	6	5.0179
11.95 - 13.95	2	1.1356
13.95 - 15.95	0	0.1248
15.95 - 17.95	0	0.0066
Chi-Square :		3.3188
Derajat Kebebasan :		3

Prob(Chi-Square > 3.3188) = 0.3450

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	37. PLASTIK 53X60X0.5 (KG)						Rata ^2 Subgrup
1	25.00	20.00	23.00	20.00	19.00	15.00	20.33
2	20.00	18.00	24.00	26.00	23.00	10.00	20.17
3	25.00	22.00	19.00	18.00	15.00	24.00	20.50
4	25.00	20.00	18.00	23.00	25.00	22.00	22.17
5	20.00	24.00	19.00	18.00	20.00	16.00	19.50
6	19.00	20.00	16.00	18.00	22.00	23.00	19.67
Total							122.33
Rata-rata grand							20.39

P (X1 < X ≤ X2)	Oi	Ei
9.95 - 12.95	1	0.5645
12.95 - 15.95	2	3.1026
15.95 - 18.95	7	8.5610
18.95 - 21.95	11	11.8923
21.95 - 24.95	10	8.3252
24.95 - 27.95	5	2.9338
27.95 - 30.95	0	0.5189

Chi-Square : 1.3543
Derajat Kebebasan : 2

Prob(Chi-Square > 1.3543) = 0.5081

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	38. PLASTIK 50X55X0.5						Rata ^2 Subgrup
1	8.00	9.00	7.00	5.00	6.00	4.00	6.50
2	8.00	7.00	9.00	5.00	6.00	4.00	6.50
3	8.00	5.00	5.00	6.00	4.00	8.00	6.00
4	9.00	9.00	7.00	8.00	5.00	6.00	7.33
5	4.00	5.00	4.00	8.00	7.00	7.00	5.83
6	9.00	8.00	7.00	9.00	6.00	8.00	7.83
Total							40.00
Rata-rata grand							6.67

P (X1 < X ≤ X2)	Oi	Ei
3.95 - 4.95	5	3.6556
4.95 - 5.95	6	6.4802
5.95 - 6.95	5	8.2295
6.95 - 7.95	6	7.4876
7.95 - 8.95	8	4.8807
8.95 - 9.95	6	2.2790
9.95 - 10.95	0	0.7621

Chi-Square : 6.3003
Derajat Kebebasan : 3

Prob(Chi-Square > 6.3003) = 0.0979

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	39. PLATE + GTO RYOBI (LBR)						Rata ^2 Subgrup
1	9.00	6.00	4.00	5.00	8.00	7.00	6.50
2	6.00	9.00	10.00	12.00	6.00	8.00	8.50
3	7.00	5.00	6.00	4.00	5.00	6.00	5.50
4	4.00	8.00	11.00	5.00	4.00	8.00	6.67
5	6.00	9.00	10.00	6.00	5.00	4.00	6.67
6	8.00	7.00	5.00	9.00	4.00	5.00	6.33
Total							40.17
Rata-rata grand							6.69

P (X1 < X ≤ X2)	Oi	Ei
3.95 - 5.95	13	9.4516
5.95 - 7.95	10	12.6713
7.95 - 9.95	9	7.7277
9.95 - 11.95	3	2.1388
11.95 - 13.95	1	0.2672
13.95 - 15.95	0	0.0150
15.95 - 17.95	0	0.0004
Chi-Square	: 2.6961	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 2.6961) = 0.2597

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	40. PLATE CLEANER (BTL)						Rata ^2 Subgrup
1	3.00	2.00	3.00	2.00	1.00	2.00	2.17
2	3.00	2.00	4.00	2.00	5.00	3.00	3.17
3	5.00	4.00	3.00	6.00	4.00	8.00	5.00
4	6.00	5.00	4.00	3.00	5.00	4.00	4.50
5	3.00	1.00	4.00	6.00	9.00	7.00	5.00
6	6.00	4.00	5.00	4.00	2.00	4.00	4.16
Total							24.00
Rata-rata grand							4.00

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	8	8.0456
2.95 - 4.95	16	13.9480
4.95 - 6.95	9	9.3737
6.95 - 8.95	2	2.4338
8.95 - 10.95	1	0.2417
10.95 - 12.95	0	0.0091
12.95 - 14.95	0	0.0001
Chi-Square	: 0.1531	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 0.1531) = 0.9263

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	41. PLATE (-) WEB D200						Rata ^2 Subgrup
1	8.00	5.00	7.00	6.00	9.00	10.00	7.50
2	13.00	8.00	10.00	9.00	6.00	7.00	8.83
3	12.00	16.00	18.00	15.00	11.00	9.00	13.50
4	10.00	6.00	5.00	17.00	14.00	10.00	10.33
5	8.00	12.00	6.00	7.00	14.00	10.00	9.50
6	9.00	8.00	6.00	7.00	11.00	13.00	9.00
Total							58.67
Rata-rata grand							9.78

P (X1 < X ≤ X2)	Oi	Ei
4.95 - 7.95	11	7.8201
7.95 - 10.95	13	12.0329
10.95 - 13.95	6	9.1275
13.95 - 16.95	4	3.4099
16.95 - 19.95	2	0.6255
19.95 - 22.95	0	0.0561
22.95 - 25.95	0	0.0024

Chi-Square : 1.4837
Derajat Kebebasan : 2

Prob(Chi-Square > 1.4837) = 0.4762

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	23. PLATE + WEB D200 (LBR)						Rata ^2 Subgrup
1	6.00	7.00	5.00	4.00	9.00	10.00	6.83
2	5.00	8.00	9.00	4.00	6.00	4.00	6.00
3	7.00	5.00	10.00	8.00	5.00	9.00	7.33
4	6.00	4.00	7.00	5.00	6.00	4.00	5.33
5	5.00	8.00	10.00	8.00	9.00	10.00	8.33
6	8.00	6.00	4.00	5.00	4.00	7.00	5.67
Total							39.50
Rata-rata grand							6.58

P (X1 < X ≤ X2)	Oi	Ei
3.95 - 5.95	14	10.0559
5.95 - 7.95	9	13.2913
7.95 - 9.95	9	7.2784
9.95 - 11.95	4	1.6447
11.95 - 13.95	0	0.1521
13.95 - 15.95	0	0.0057
15.95 - 17.95	0	0.0001

Chi-Square : 4.6238
Derajat Kebebasan : 2

Prob(Chi-Square > 4.6238) = 0.0991

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	43. PLATE (+)WEB SOLNA D300						Rata ^2 Subgrup
1	9.00	10.00	12.00	8.00	6.00	7.00	8.67
2	8.00	10.00	12.00	9.00	6.00	10.00	9.17
3	16.00	12.00	9.00	10.00	11.00	12.00	11.67
4	9.00	11.00	7.00	9.00	8.00	10.00	9.00
5	13.00	16.00	14.00	15.00	9.00	10.00	12.83
6	12.00	8.00	10.00	11.00	9.00	12.00	10.33
Total							61.67
Rata-rata grand							10.28

P (X1 < X ≤ X2)	Oi	Ei
5.95 - 7.95	4	4.8339
7.95 - 9.95	11	9.7827
9.95 - 11.95	10	10.8031
11.95 - 13.95	7	6.5112
13.95 - 15.95	2	2.1396
15.95 - 17.95	2	0.3825
17.95 - 19.95	0	0.0371
Chi-Square	: 0.4802	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 0.4802) = 0.7865

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	44. PLATE + A5022 HP80 (LBR)						Rata ^2 Subgrup
1	7.00	6.00	4.00	8.00	6.00	5.00	6.00
2	4.00	6.00	2.00	3.00	4.00	5.00	4.00
3	7.00	1.00	2.00	5.00	9.00	4.00	4.67
4	5.00	7.00	6.00	3.00	1.00	2.00	4.00
5	7.00	4.00	6.00	8.00	2.00	9.00	6.00
6	8.00	5.00	6.00	9.00	3.00	4.00	5.83
Total							30.05
Rata-rata grand							5.08

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 2.95	6	5.1307
2.95 - 4.95	9	10.8893
4.95 - 6.95	12	11.3077
6.95 - 8.95	9	5.7458
8.95 - 10.95	1	1.4254
10.95 - 12.95	0	0.1719
12.95 - 14.95	0	0.0100
Chi-Square	: 0.8863	
Derajat Kebebasan	: 3	

Prob(Chi-Square > 0.8863) = 0.8287

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	45. PLATE SORS(+) (LBR)						Rata ^2 Subgrup
1	20.00	13.00	15.00	20.00	16.00	23.00	17.83
2	25.00	16.00	23.00	20.00	18.00	19.00	20.17
3	25.00	26.00	27.00	24.00	28.00	22.00	25.33
4	16.00	19.00	20.00	23.00	24.00	26.00	21.33
5	23.00	19.00	22.00	18.00	16.00	17.00	19.17
6	18.00	15.00	13.00	19.00	18.00	23.00	17.67
Total							121.50
Rata-rata grand							20.25

_____ Uji Kenormalan Data _____

P (X1 < X ≤ X2)	Oi	Ei
12.95 - 15.95	4	3.8546
15.95 - 18.95	9	8.3353
18.95 - 21.95	8	10.5228
21.95 - 24.95	9	7.7584
24.95 - 27.95	5	3.3392
27.95 - 30.95	1	0.8380
30.95 - 33.95	0	0.1224

Chi-Square : 1.3765
 Derajat Kebebasan : 2

Prob(Chi-Square > 1.3765) = 0.5024

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	46. RC 73 STABIGUM (LITER)						Rata ^2 Subgrup
1	25.00	15.00	20.00	35.00	25.00	45.00	27.50
2	50.00	25.00	35.00	40.00	50.00	55.00	42.50
3	50.00	25.00	30.00	35.00	40.00	45.00	37.50
4	50.00	55.00	20.00	35.00	40.00	45.00	40.83
5	50.00	35.00	40.00	45.00	50.00	35.00	42.50
6	40.00	50.00	25.00	30.00	20.00	25.00	31.67
Total							222.50
Rata-rata grand							37.08

P (X1 < X ≤ X2)	Oi	Ei
14.95 - 21.95	4	2.4701
21.95 - 28.95	6	5.3034
28.95 - 35.95	8	7.9696
35.95 - 42.95	5	8.3837
42.95 - 49.95	4	6.1740
49.95 - 56.95	9	3.1825
56.95 - 63.95	0	1.1479

Chi-Square : 2.5964
 Derajat Kebebasan : 3

Prob(Chi-Square > 2.5964) = 0.4581

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	47. ROEFISIL (KALENG)						Rata ^2 Subgrup
1	1.00	2.00	1.00	1.00	2.00	3.00	1.67
2	2.00	1.00	2.00	3.00	3.00	2.00	2.17
3	1.00	1.00	2.00	4.00	2.00	3.00	2.17
4	1.00	1.00	2.00	1.00	2.00	3.00	1.67
5	4.00	2.00	1.00	1.00	2.00	2.00	2.00
6	1.00	3.00	1.00	1.00	2.00	1.00	1.50
Total							11.17
Rata-rata grand							1.86

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 1.95	15	13.8194
1.95 - 2.95	13	12.5154
2.95 - 3.95	6	3.7039
3.95 - 4.95	2	0.3527
4.95 - 5.95	0	0.0106
5.95 - 6.95	0	0.0001
6.95 - 7.95	0	0.0000
Chi-Square	: 1.2775	
Derajat Kebebasan	: 1	

Prob(Chi-Square > 1.2775) = 0.2584

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	48. ROLL AIR SORS (BUAH)						Rata ^2 Subgrup
1	2.00	1.00	1.00	1.00	2.00	1.00	1.33
2	3.00	2.00	1.00	1.00	2.00	3.00	2.00
3	1.00	1.00	1.00	2.00	1.00	3.00	1.50
4	2.00	1.00	1.00	1.00	2.00	3.00	1.67
5	1.00	2.00	1.00	1.00	2.00	3.00	1.67
6	3.00	2.00	1.00	1.00	3.00	2.00	2.00
Total							10.17
Rata-rata grand							1.69

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 1.95	18	16.3994
1.95 - 2.95	11	11.4275
2.95 - 3.95	7	1.9113
3.95 - 4.95	0	0.0736
4.95 - 5.95	0	0.0006
5.95 - 6.95	0	0.0000
6.95 - 7.95	0	0.0000
Chi-Square	: 1.7248	
Derajat Kebebasan	: 1	

Prob(Chi-Square > 1.7248) = 0.1891

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	49. SPARE GUM (KALENG)						Rata ^2 Subgrup
1	2.00	3.00	2.00	3.00	2.00	1.00	2.17
2	1.00	2.00	3.00	1.00	2.00	4.00	2.17
3	2.00	3.00	2.00	1.00	1.00	1.00	1.67
4	2.00	3.00	1.00	2.00	1.00	3.00	2.00
5	3.00	2.00	2.00	1.00	1.00	1.00	1.67
6	2.00	3.00	1.00	2.00	1.00	3.00	2.00
Total							11.67
Rata-rata grand							1.94

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 1.95	13	13.6364
1.95 - 2.95	13	13.5453
2.95 - 3.95	9	4.0072
3.95 - 4.95	1	0.3461
4.95 - 5.95	0	0.0085
5.95 - 6.95	0	0.0001
6.95 - 7.95	0	0.0000
Chi-Square	: 1.4781	
Derajat Kebebasan	: 1	

Prob(Chi-Square > 1.4781) = 0.2241

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	50. SPRAYMOUNT (KALENG)						Rata ^2 Subgrup
1	3.00	4.00	5.00	2.00	3.00	2.00	3.17
2	1.00	2.00	3.00	4.00	2.00	3.00	2.50
3	5.00	4.00	4.00	4.00	3.00	3.00	3.83
4	2.00	3.00	2.00	2.00	3.00	3.00	2.50
5	1.00	2.00	5.00	4.00	5.00	5.00	3.67
6	4.00	3.00	2.00	3.00	4.00	4.00	3.33
Total							19.00
Rata-rata grand							3.17

P (X1 < X ≤ X2)	Oi	Ei
0.95 - 1.95	2	4.1882
1.95 - 2.95	9	10.1734
2.95 - 3.95	11	11.9136
3.95 - 4.95	9	6.7301
4.95 - 5.95	5	1.8301
5.95 - 6.95	0	0.2386
6.95 - 7.95	0	0.0148
Chi-Square	: 3.9089	
Derajat Kebebasan	: 2	

Prob(Chi-Square > 3.9089) = 0.1416

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

Sub Grup	51.W BLACK II/III OFFSET						Rata ^2 Subgrup
1	50.00	40.00	50.00	50.00	80.00	50.00	53.33
2	60.00	70.00	80.00	90.00	40.00	90.00	71.67
3	90.00	110.00	70.00	60.00	80.00	60.00	78.33
4	50.00	50.00	80.00	90.00	70.00	90.00	71.67
5	40.00	60.00	70.00	100.00	60.00	80.00	68.33
6	40.00	50.00	70.00	60.00	90.00	60.00	61.67
Total							405.00
Rata-rata grand							67.50

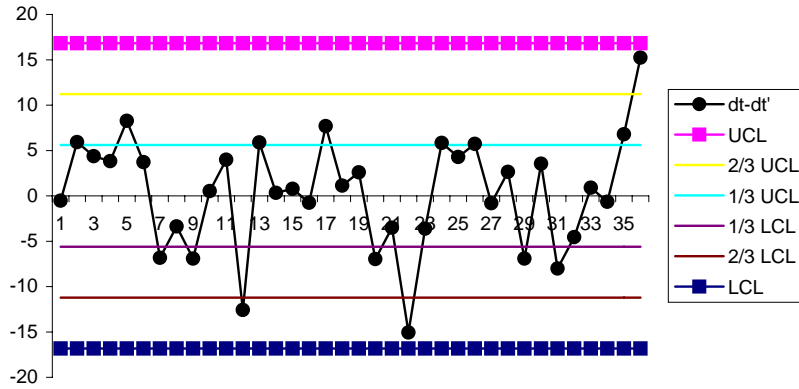
_____ Uji Kenormalan Data _____

P (X1 < X ≤ X2)	Oi	Ei
39.95 - 51.95	11	4.7716
51.95 - 63.95	7	7.9795
63.95 - 75.95	5	8.9732
75.95 - 87.95	5	6.7860
87.95 - 99.95	6	3.4506
99.95 - 111.95	2	1.1794
111.95 - 123.95	0	0.2708
Chi-Square	: 4.0675	
Derajat Kebebasan	: 2	

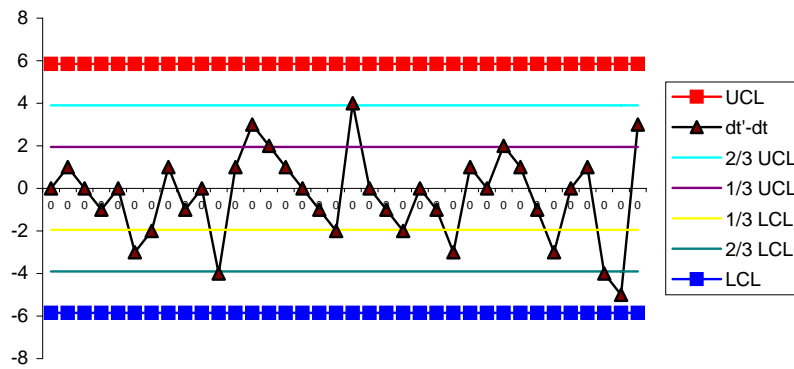
$$\text{Prob}(\text{Chi-Square} > 4.0675) = 0.1308$$

Menerima hipotesa kenormalan pada $\alpha = 0.0500$

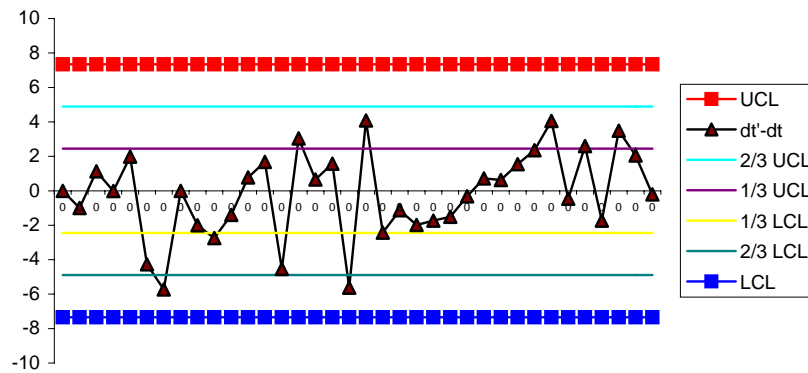
1. ASTRALON



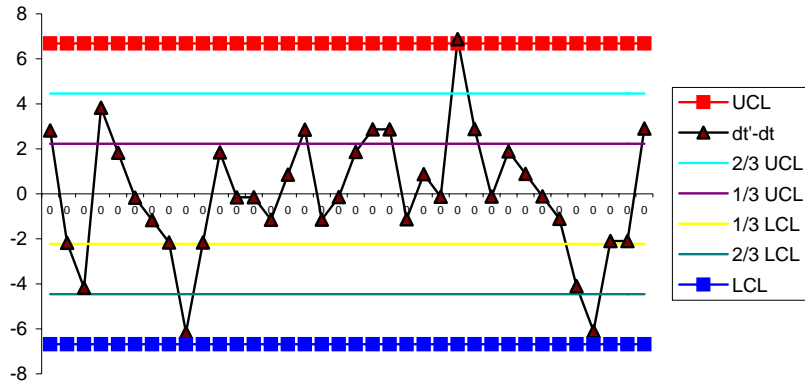
2. CAHAYA PROCESS BLACK



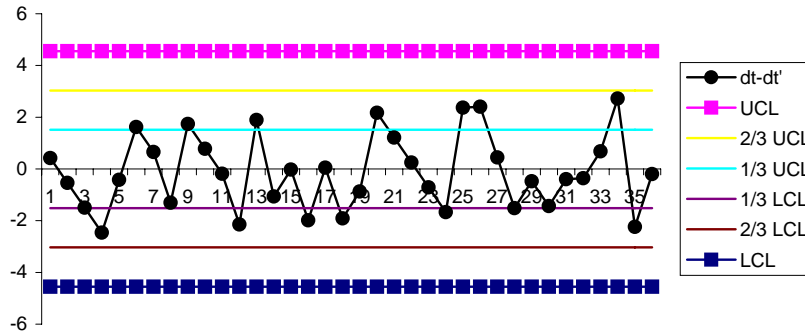
3. CAHAYA PROCESS CYAN



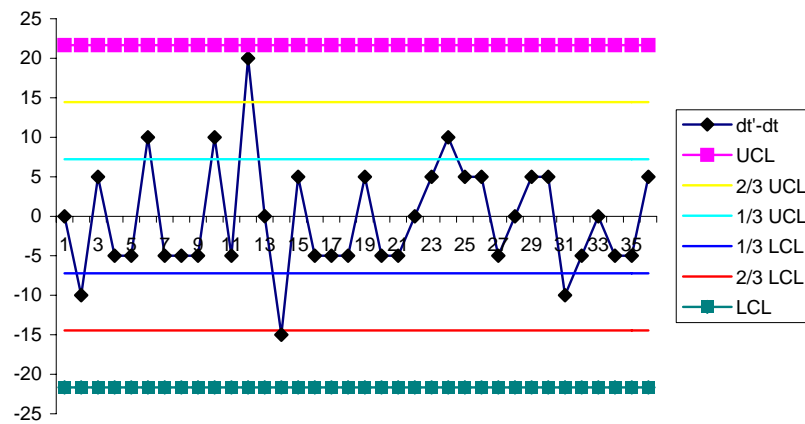
4. CAHAYA PROCESS MAGENTA



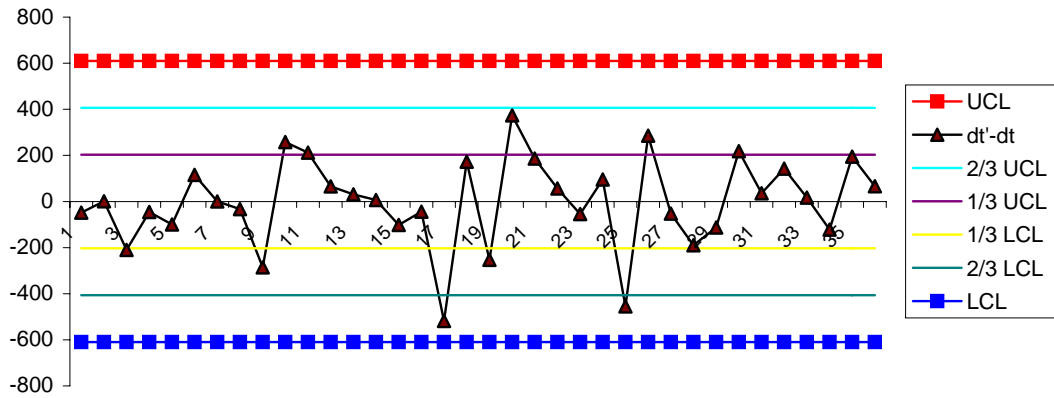
5. CAHAYA PROCESS YELLOW



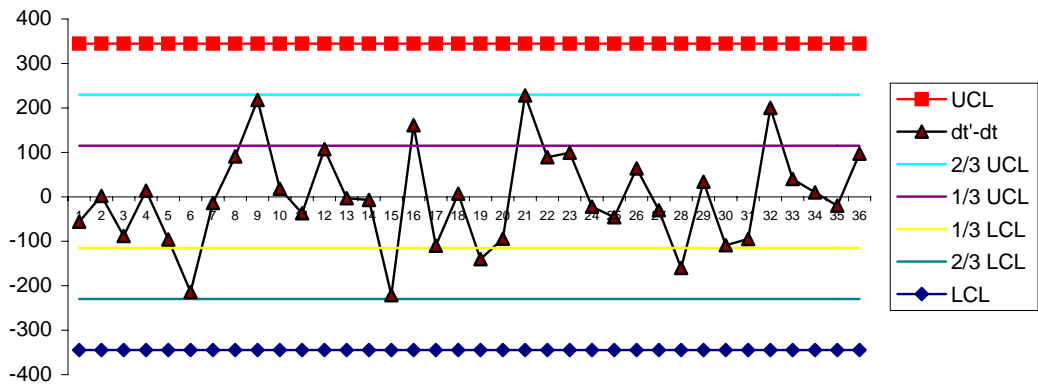
6. COATES WEB BLACK



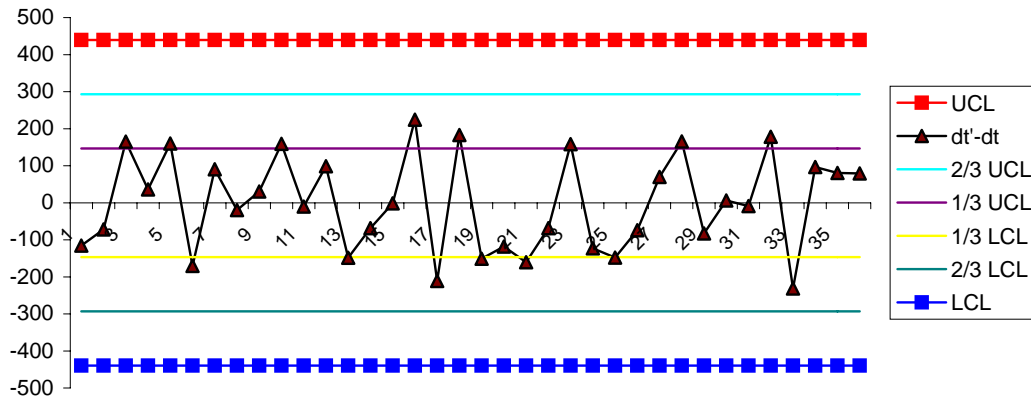
1. HVS 60 GR - 61X86



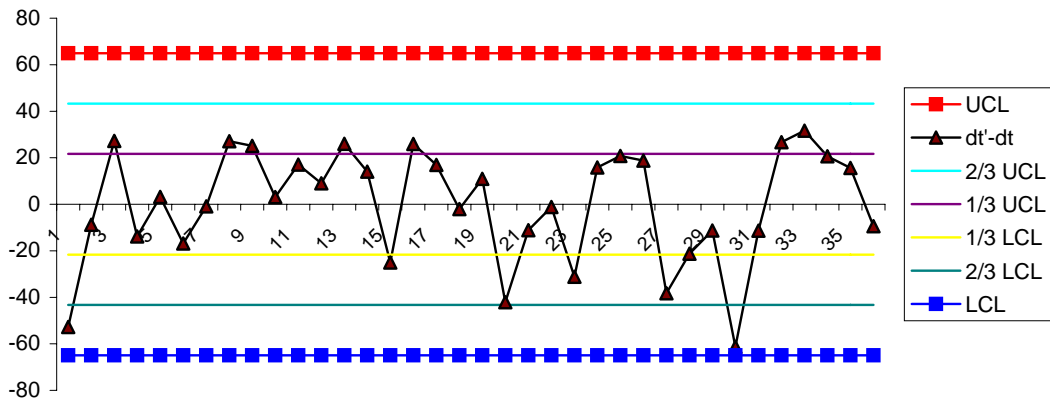
2. HVS 60 GR - 65X100



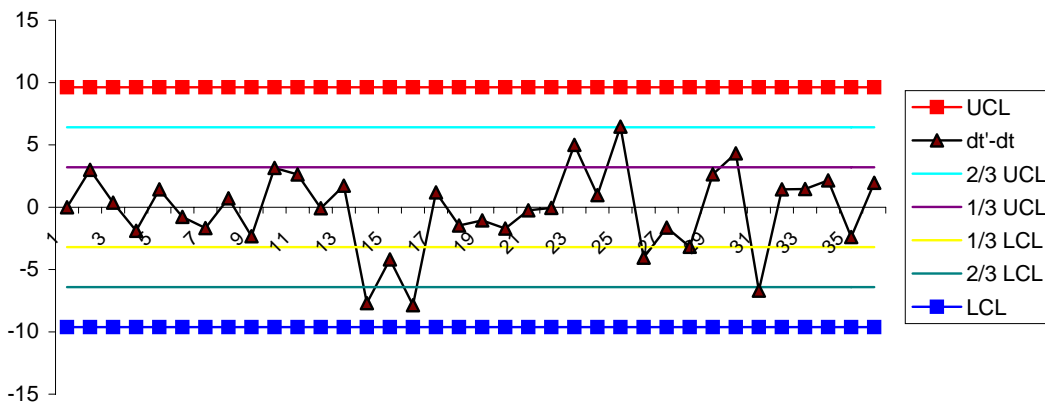
3. HVS 60 GR - 72X102



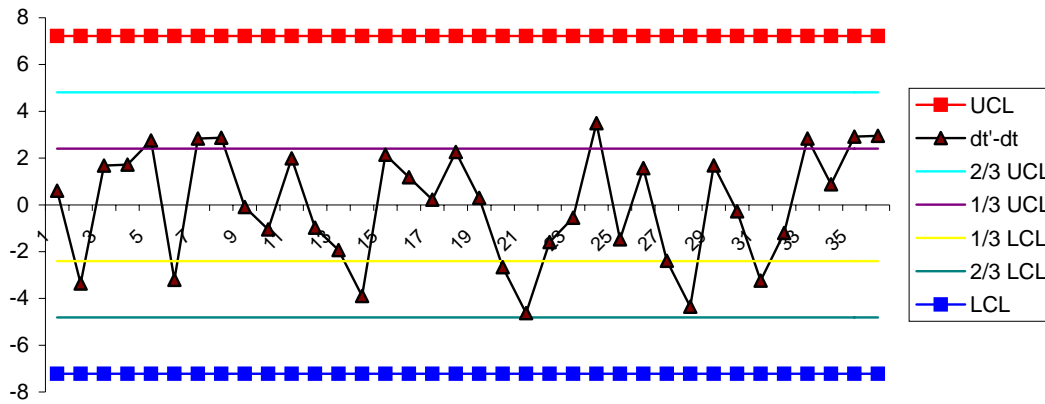
4. HVS 60 GR - 79X109



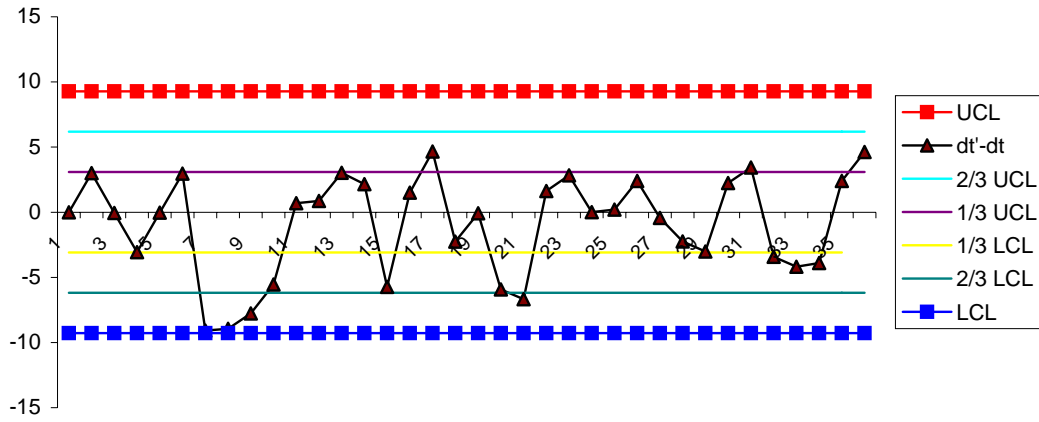
5. HVS 60 GR - 72 IN ROLL



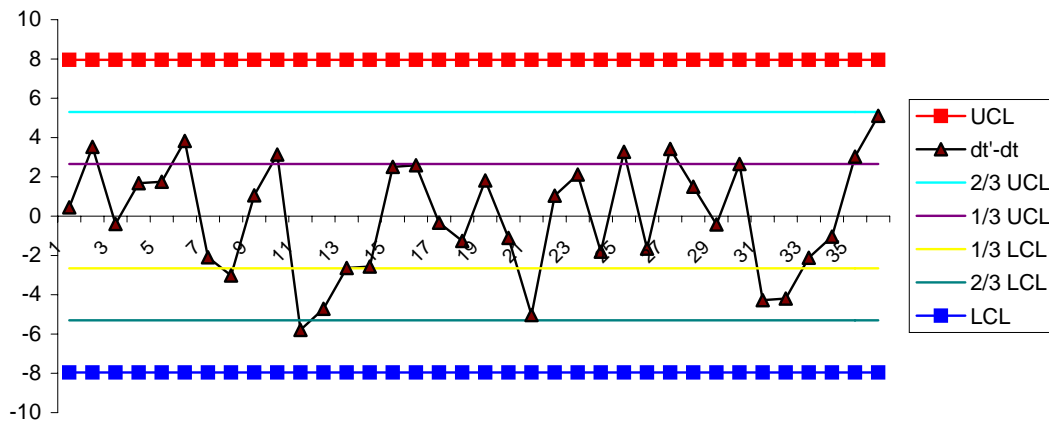
6. HVS 60 GR - 73 IN ROLL



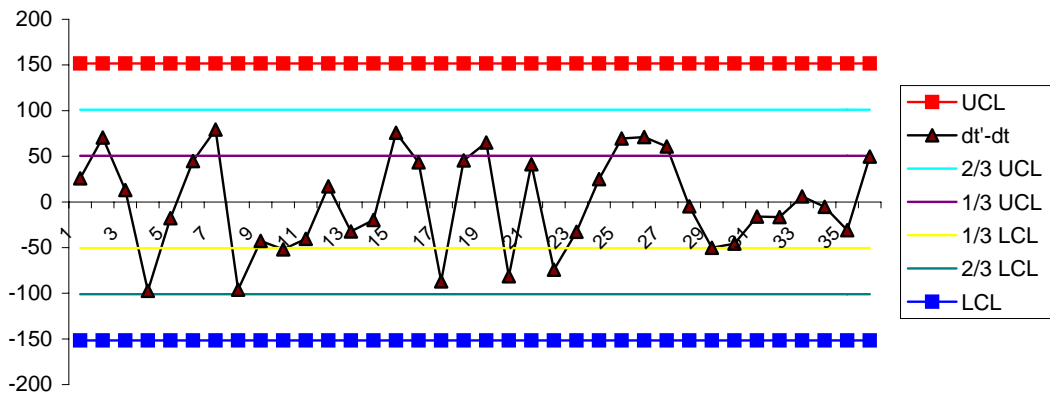
7. HVS 60 GR - 84 IN ROLL



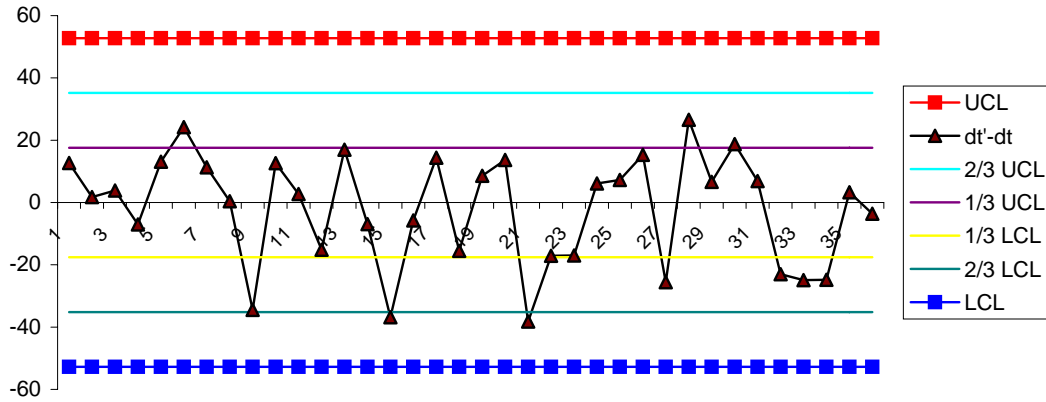
8. HVS 60 GR - 86 IN ROLL



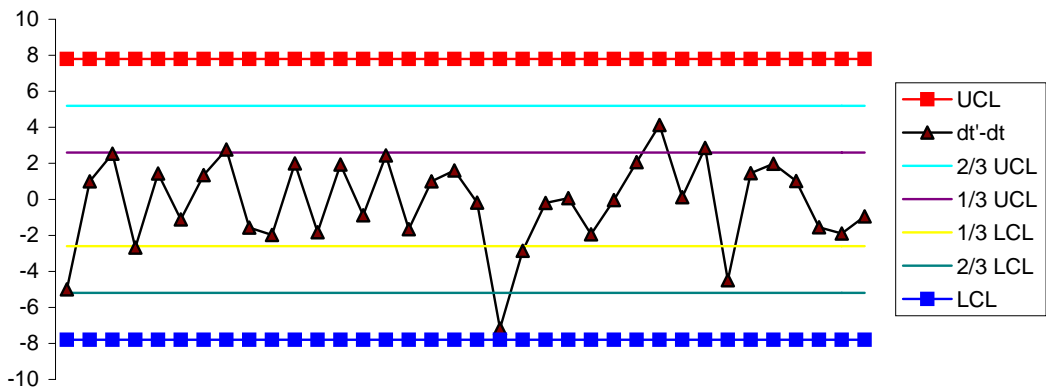
9. HVS 70 GR - 61X86



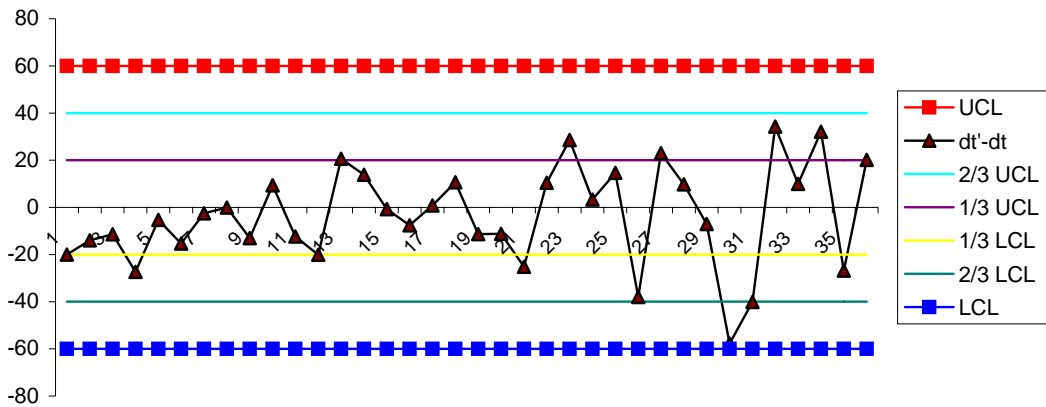
10. HVS 70 GR - 65X100



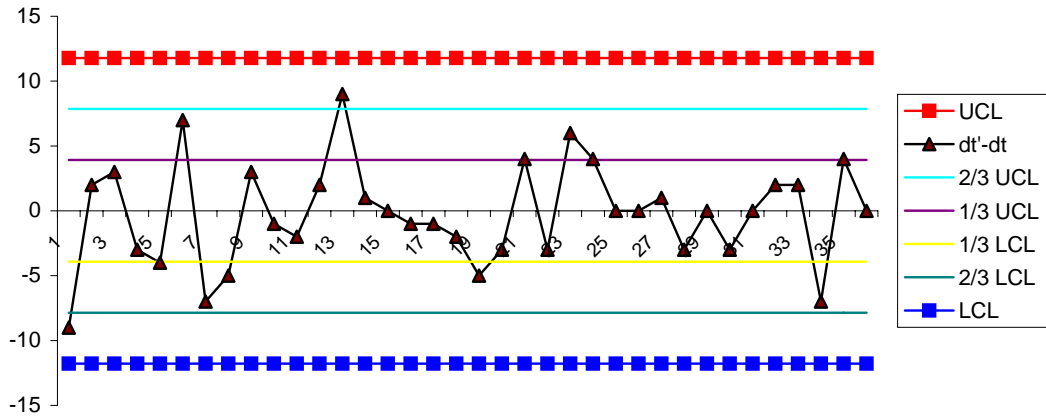
11. HVS 70 GR - 73 IN ROLL



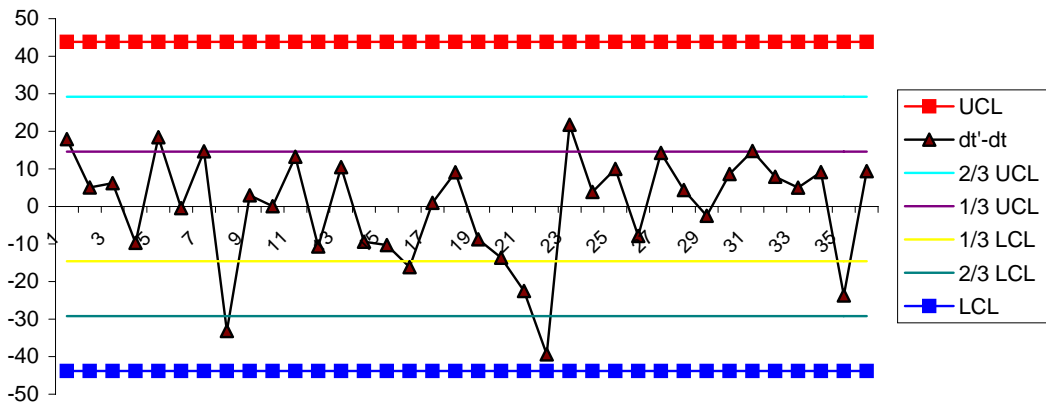
12. HVS 70 GR - 79X109



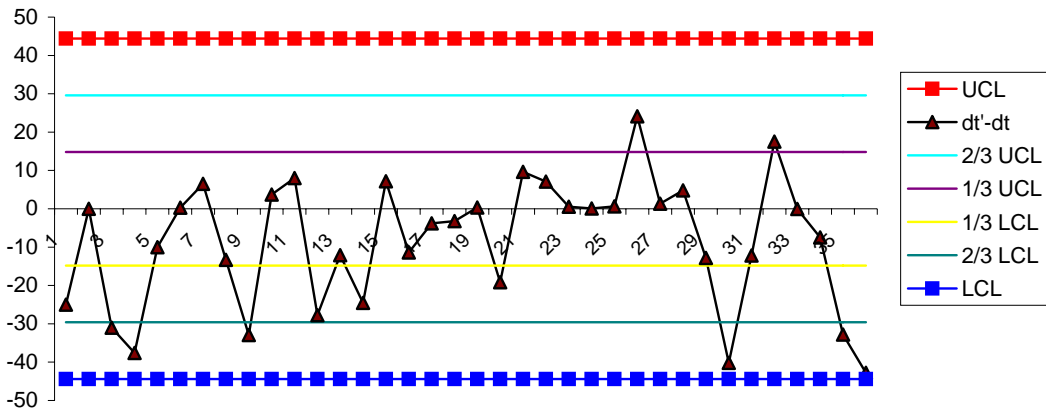
13. HVS 70 GR - 84 IN ROLL



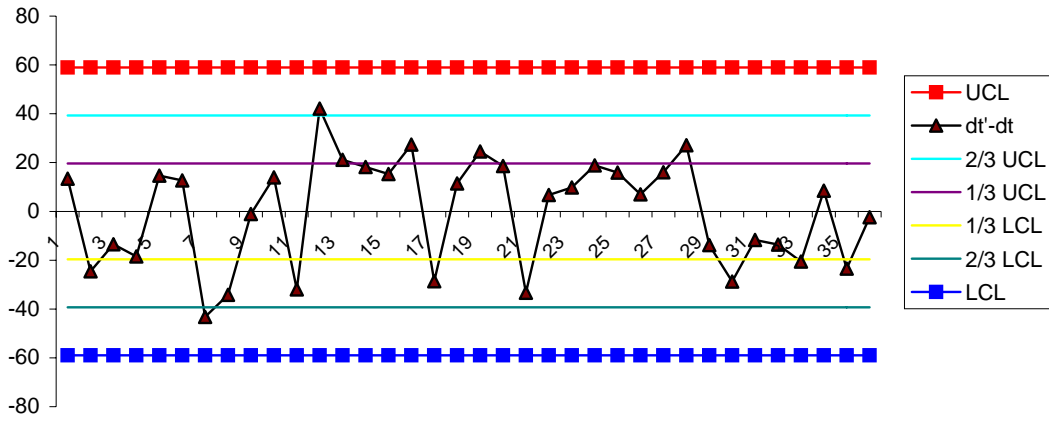
14 HVS 80GR - 61X86



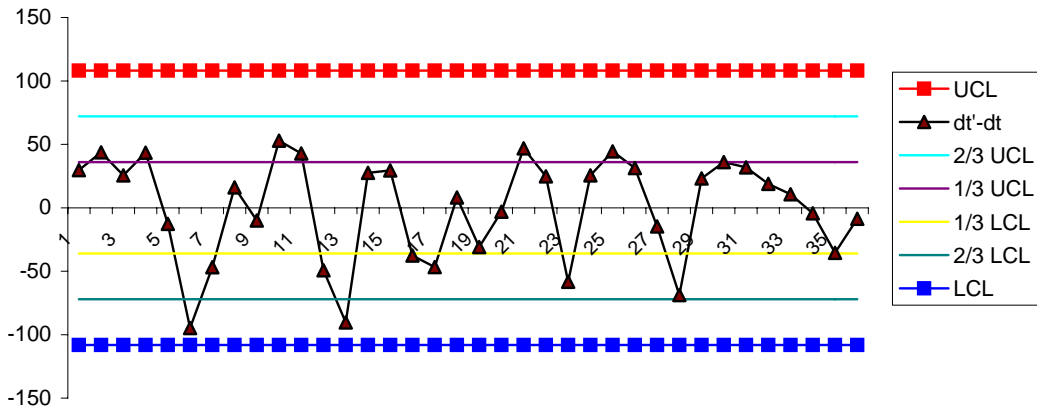
15. HVS 80 GR - 65X100



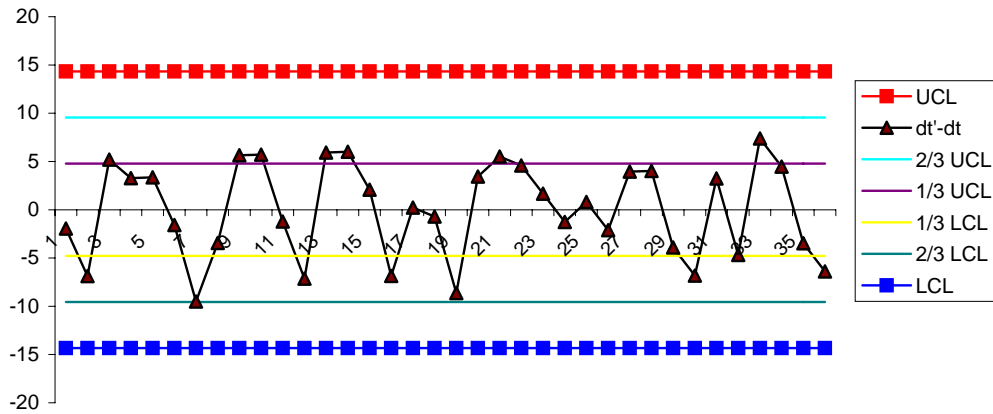
16. IVORY 170 GR - 656X90



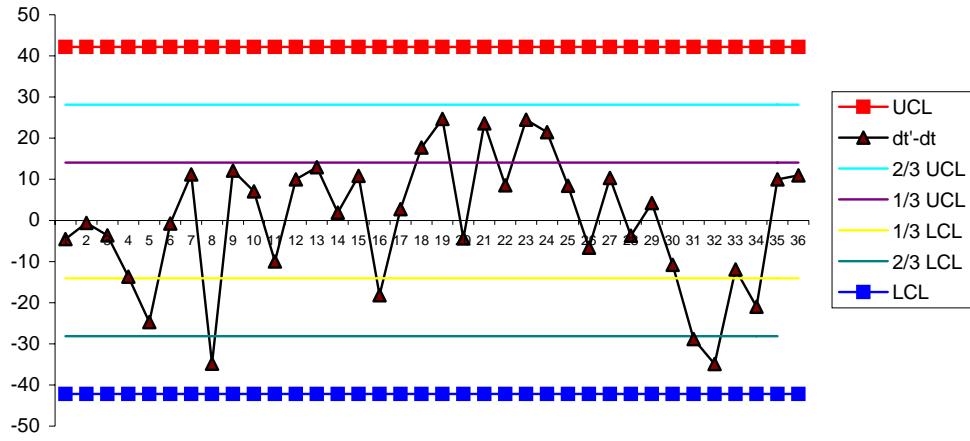
17. IVORY 170 GR - 796X109



18. KORAN 84 IN ROLL



19. KUNSDRUK 210 GR - 79X109



NILAI BARANG SIMPAN BAHAN BAKU PER SUPPLIER

EGA GRAFIKA

NO	NAMA BARANG	D	SAT	HARGA SAT	B.SIMPAN	B.SIMPAN/SAT	D*H
1	ASTRALON	524	METER	Rp8,250	0.2488	Rp2,053	Rp1,075,562
2	PLATE POSITIF GTO / RYOBI 510X400X0,15	77	LBR	Rp6,000	0.2488	Rp1,493	Rp114,946
3	PLATE NEGATIF WEB 900X576X0,30X40 SD200	132	SHEET	Rp25,740	0.2488	Rp6,404	Rp845,343
4	PLATE POSITIF WEB 900X576X30 SOLNA D200	84	SHEET	Rp25,740	0.2488	Rp6,404	Rp537,945
5	PLATE POSITIF WEB 995X637X50 SOLNA D300	148	SHEET	Rp31,350	0.2488	Rp7,800	Rp1,154,382
6	PLATE POSITIF A5022 HP80 745X605X30	72	SHEET	Rp22,100	0.2488	Rp5,498	Rp395,891
7	PLATE SORS POSIT 1030X770X0,30X50	48	SHEET	Rp34,650	0.2488	Rp8,621	Rp413,804
8	FILM	132	LEMBAR	Rp13,475	0.2488	Rp3,353	Rp442,541
							Rp4,980,414

CITRA GRAFIKA

NO	NAMA BARANG	D	SAT	HARGA SAT	B.SIMPAN	B.SIMPAN/SAT	D*H
1	CAHAYA PROCESS BLACK	60	KG	Rp47,500	0.2488	Rp11,818	Rp709,080
2	CAHAYA PROCESS CYAN	84	KG	Rp57,600	0.2488	Rp14,331	Rp1,203,794
3	CAHAYA PROCESS MAGENTA	96	KG	Rp54,200	0.2488	Rp13,485	Rp1,294,556
4	CAHAYA PROCESS YELLOW	67	KG	Rp50,900	0.2488	Rp12,664	Rp848,483
5	COATES WEB BLACK D2	360	KG.	Rp49,000	0.2488	Rp12,191	Rp4,388,832
6	W BLACK II/III OFFSET	873	KG	Rp23,700	0.2488	Rp5,897	Rp5,147,697
							Rp13,592,442

TONDIRAYA

NO	NAMA BARANG	D	SAT	HARGA SAT	B.SIMPAN	B.SIMPAN/SAT	D*H
1	KAWAT JAHIT NO.26	168	ROLL	Rp40,000	0.2488	Rp9,952	Rp1,671,936
2	PANFIX 1 X 72X 6 ROLL	51	ROL	Rp35,000	0.2488	Rp8,708	Rp444,108
3	SPRY MONT	48	KLG	Rp60,000	0.2488	Rp14,928	Rp716,544
							Rp2,832,588

NILAI BARANG SIMPAN BAHAN BAKU PER SUPPLIER

PLASTIK

NO	NAMA BARANG	D	SAT	HARGA SAT	B.SIMPAN	B.SIMPAN/SAT	D*H
1	PLASTIK PE 42X60X0.5	96	KG.	Rp13,700	0.2488	Rp3,409	Rp327,222
2	PLASTIK PE 53X60X0.5	240	KG.	Rp15,800	0.2488	Rp3,931	Rp943,450
3	PLASTIK PE 50X55X0.5	96	KG.	Rp15,800	0.2488	Rp3,931	Rp377,380
							Rp1,648,051

HENKEL

NO	NAMA BARANG	D	SAT	HARGA SAT	B.SIMPAN	B.SIMPAN/SAT	D*H
1	LEM HENKEL Q 2216 / Q20 (PUNGGUNG).	1035	KG.	Rp20,000	0.2488	Rp4,976	Rp5,150,160
2	LEM HENKEL Q 2432 ID (SAMPING).	765	KG.	Rp30,000	0.2488	Rp7,464	Rp5,709,960
3	GUMTAPE 48 MM X 72 ROLL	36	ROL	Rp60,000	0.2488	Rp14,928	Rp537,408
							Rp11,397,528

FORTUNA

NO	NAMA CHEMICAL	D	SAT	HARGA SAT	B.SIMPAN	B.SIMPAN/SAT	D*H
1	ROLL AIR SORS	33	KLNG	Rp193,900	0.2488	Rp48,242	Rp1,591,997
2	ISOPROPHYL ALCOHOL	96	LTR	Rp25,900	0.2488	Rp6,444	Rp618,616
3	ROEFISIL	24	KLNG	Rp64,350	0.2488	Rp16,010	Rp384,247
4	SPARAGUM	24	KLNG	Rp93,500	0.2488	Rp23,263	Rp558,307
5	COLCO AQUA DAMP	60	LITER	Rp4,800	0.2488	Rp1,194	Rp71,654
6	COLCO BLANKET WASH	312	LITER	Rp6,600	0.2488	Rp1,642	Rp512,329
7	PLATE CLEANER	80	BTL	Rp61,600	0.2488	Rp15,326	Rp1,226,086
8	RC 73 STABIGUM @ 5 LITER	276	KLNG	Rp30,250	0.2488	Rp7,526	Rp2,077,231
9	MASTER PLATE ETCHING STAR	69	LITER	Rp37,000	0.2488	Rp9,206	Rp635,186
							Rp7,675,654

NILAI BARANG SIMPAN BAHAN BAKU PER SUPPLIER

GRAHA NIAGA

NO	NAMA BARANG	D	SAT	HARGA SATUAN	B.SIMPAN	BIAYA SIMPAN	D*H
1	HVS 60 GRAM 61X86 CM.	3001	RIM	Rp129,052	0.2488	Rp32,108.04	Rp96,356,222
2	HVS 60 GRAM 65X100 CM.	1008	RIM	Rp159,900	0.2488	Rp39,783.12	Rp40,101,385
3	HVS 60 GRAM 72X102 CM.	2671	RIM	Rp180,662	0.2488	Rp44,948.81	Rp120,058,258
4	HVS 60 GRAM 79X109 CM.	612	RIM	Rp211,831	0.2488	Rp52,703.45	Rp32,254,513
5	HVS 60 GRAM 72 CM. IN ROLL.	120	ROLL	Rp4,100,000	0.2488	Rp1,020,080.00	Rp122,409,600
6	HVS 60 GRAM 73 CM. IN ROLL.	65	ROLL	Rp4,100,000	0.2488	Rp1,020,080.00	Rp66,305,200
7	HVS 60 GRAM 84 CM IN ROLL.	150	ROLL	Rp4,100,000	0.2488	Rp1,020,080.00	Rp153,012,000
8	HVS 60 GRAM 86 CM IN ROLL.	109	ROLL	Rp4,100,000	0.2488	Rp1,020,080.00	Rp111,188,720
9	HVS 70 GRAM 61X86 CM.	1072	RIM	Rp150,560	0.2488	Rp37,459.38	Rp40,156,453
10	HVS 70 GRAM 65X100 CM.	512	RIM	Rp157,440	0.2488	Rp39,171.07	Rp20,039,170
11	HVS 70 GRAM 73 CM. IN ROLL	77	RIM	Rp4,100,000	0.2488	Rp1,020,080.00	Rp78,546,160
12	HVS 70 GRAM 79X109 CM.	510	RIM	Rp151,700	0.2488	Rp37,742.96	Rp19,267,135
13	HVS 70 GRAM 84 CM IN ROLL.	108	ROLL	Rp4,100,000	0.2488	Rp1,020,080.00	Rp110,168,640
14	HVS 80 GRAM 61X86 CM.	500	RIM	Rp213,200	0.2488	Rp53,044.16	Rp26,522,080
15	HVS 80 GRAM 65X100 CM.	582	RIM	Rp225,500	0.2488	Rp56,104.40	Rp32,652,761
16	IVORY 170 GRAM 66X90 CM.	289	RIM	Rp559,900	0.2488	Rp139,303.12	Rp40,258,602
17	IVORY 170 GRAM 79X109 CM.	868	RIM	Rp607,750	0.2488	Rp151,208.20	Rp131,248,718
18	KORAN 48.8 GRAM 84 CM IN ROLL.	163	ROLL	Rp248,000	0.2488	Rp61,702.40	Rp10,057,491
19	KUNSDRUK 210 GRAM 79X109 CM.	690	RIM	Rp621,500	0.2488	Rp154,629.20	Rp106,694,148
							Rp1,357,297,256

TOTAL BIAYA SIMPAN BB UTAMA
 TOTAL BIAYA SIMPAN BB PEMBANTU
TOTAL BIAYA SIMPAN

Rp1,357,297,256
 Rp42,126,677
Rp1,399,423,933

CONTOH PERHITUNGAN

Total biaya simpan (bab 5.6.1)

biaya simpan/# = harga sat * Total biaya simpan

D*H = Demand*biaya simpan

no	JENIS MATERIAL	SATUAN	ut dan qt						
			L	T	D	MAD	SD	μτ	βt
1	HVS 60 GRAM 61X86 CM.	RIM	1	297	3001	138.4601	173.075125	10.1044	10.0428
2	HVS 60 GRAM 65X100 CM.	RIM	1	297	1008	85.28571	106.6071375	3.3939	6.1860
3	HVS 60 GRAM 72X102 CM.	RIM	1	297	2671	110.1106	137.63825	8.9933	7.9866
4	HVS 60 GRAM 79X109 CM.	RIM	1	297	612	19.91774	24.897175	2.0606	1.4447
5	HVS 60 GRAM 72 CM. IN ROLL.	ROLL	1	297	120	2.559	3.19875	0.4040	0.1856
6	HVS 60 GRAM 73 CM. IN ROLL.	ROLL	1	297	65	2.048465	2.56058125	0.2189	0.1486
7	HVS 60 GRAM 84 CM IN ROLL.	ROLL	1	297	150	3.170482	3.9631025	0.5051	0.2300
8	HVS 60 GRAM 86 CM IN ROLL.	ROLL	1	297	109	2.471186	3.0889825	0.3670	0.1792
9	HVS 70 GRAM 61X86 CM.	RIM	1	297	1072	49.17972	61.47465	3.6094	3.5671
10	HVS 70 GRAM 65X100 CM.	RIM	1	297	512	15.07053	18.8381625	1.7239	1.0931
11	HVS 70 GRAM 73 CM. IN ROLL	RIM	1	297	77	1.832248	2.29031	0.2593	0.1329
12	HVS 70 GRAM 79X109 CM.	RIM	1	297	510	14.39061	17.9882625	1.7172	1.0438
13	HVS 70 GRAM 84 CM IN ROLL.	ROLL	1	297	108	2.857143	3.57142875	0.3636	0.2072
14	HVS 80 GRAM 61X86 CM.	RIM	1	297	500	12.25762	15.322025	1.6835	0.8891
15	HVS 80 GRAM 65X100 CM.	RIM	1	297	582	13.34341	16.6792625	1.9596	0.9678
16	IVORY 170 GRAM 66X90 CM.	RIM	1	297	289	19.06821	23.8352625	0.9731	1.3831
17	IVORY 170 GRAM 79X109 CM.	RIM	1	297	868	34.0396	42.5495	2.9226	2.4690
18	KORAN 48.8 GRAM 84 CM IN ROLL.	ROLL	1	297	163	4.250857	5.31357125	0.5488	0.3083
19	KUNSDRUK 210 GRAM 79X109 CM.	RIM	1	297	690	12.95142	16.189275	2.3232	0.9394

20	ASTRALON	METER	1	297	524	5.224996	6.531245	1.7643	0.3790
21	PLATE POSITIF GTO / RYOBI 510X400X0,15	KG	1	297	77	1.802559	2.25319875	0.2593	0.1307
22	PLATE NEGATIF WEB 900X576X0,30X40 SD200	KG	1	297	132	2.814185	3.51773125	0.4444	0.2041
23	PLATE POSITIF WEB 900X576X30 SOLNA D200	KG	1	297	84	1.782525	2.22815625	0.2828	0.1293
24	PLATE POSITIF WEB 995X637X50 SOLNA D300	KG	1	297	148	1.8899	2.362375	0.4983	0.1371
25	PLATE POSITIF A5022 HP80 745X605X30	KG.	1	297	72	1.849	2.31125	0.2424	0.1341
26	PLATE SORS POSIT 1030X770X0.30X50	LITER	1	297	48	3.825325	4.78165625	0.1616	0.2775
27	FILM	LITER	1	297	132	3.170608	3.96326	0.4444	0.2300

28	CAHAYA PROCESS BLACK	BOX	1	297	60	1.571429	1.96428625	0.2020	0.1140
29	CAHAYA PROCESS CYAN	ROL	1	297	84	2.033783	2.54222875	0.2828	0.1475
30	CAHAYA PROCESS MAGENTA	LTR	1	297	96	2.106685	2.63335625	0.3232	0.1528
31	CAHAYA PROCESS YELLOW	ROLL	1	297	67	1.228238	1.5352975	0.2256	0.0891
32	COATES WEB BLACK D2	KG.	1	297	360	5.999999	7.49999875	1.2121	0.4352
33	W BLACK II/III OFFSET	KG.	1	297	873	15.7111	19.638875	2.9394	1.1396

34	ROLL AIR SORS	LITER	1	297	33	0.6697769	0.837221125	0.1111	0.0486
35	ISOPROPHYL ALCOHOL	ROL	1	297	96	1.8073	2.259125	0.3232	0.1311
36	ROEFISIL	KG.	1	297	24	0.7137136	0.892142	0.0808	0.0518
37	SPARAGUM	KG.	1	297	24	0.6857	0.857125	0.0808	0.0497
38	COLCO AQUA DAMP	KG.	1	297	60	1.722799	2.15349875	0.2020	0.1250
39	COLCO BLANKET WASH	LBR	1	297	312	3.147975	3.93496875	1.0505	0.2283
40	PLATE CLEANER	BTL	1	297	80	1.341944	1.67743	0.2694	0.0973
41	RC 73 STABIGUM @ 5 LITER	SHEET	1	297	276	9.0283	11.285375	0.9293	0.6548
42	MASTER PLATE ETCHING STAR	SHEET	1	297	69	1.284022	1.6050275	0.2323	0.0931

43	KAWAT JAHIT NO.26	SHEET	1	297	168	2.657143	3.32142875	0.5657	0.1927
44	PANFIX 1 X 72X 6 ROLL	SHEET	1	297	51	1.288505	1.61063125	0.1717	0.0935
45	SPRY MONT	SHEET	1	297	48	0.9083512	1.135439	0.1616	0.0659

46	PLASTIK PE 42X60X0.5	KLK	1	297	96	1.766806	2.2085075	0.3232	0.1282
47	PLASTIK PE 53X60X0.5	KLNG	1	297	240	2.765432	3.45679	0.8081	0.2006
48	PLASTIK PE 50X55X0.5	KLNG	1	297	96	1.45434	1.817925	0.3232	0.1055

49	LEM HENKEL Q 2216 / Q20 (PUNGGUNG).	KLNG	1	297	1035	14.78035	18.4754375	3.4848	1.0721
50	LEM HENKEL Q 2432 ID (SAMPING).	KLK	1	297	765	10.84	13.55	2.5758	0.7863
51	GUMTAPE 48 MM X 72 ROLL	KG	1	297	36	1.444695	1.80586875	0.1212	0.1048

q01				alpha								
A	D	H	q1	H	q01	phi	d	alpha	a1	a-		
30410	3001	Rp	38,569.65	68.7913	Rp	38,569.65	68.7913	19357.74	3001	0.043678	0.043678	0.043633
30410	1008	Rp	47,789.31	35.8169	Rp	47,789.31	35.8169	23985	1008	0.066117	0.066117	0.065522
30410	2671	Rp	53,994.57	54.8511	Rp	53,994.57	54.8511	27099.36	2671	0.039308	0.039308	0.039204
30410	612	Rp	63,309.81	24.2473	Rp	63,309.81	24.2473	31774.59	612	0.073165	0.073165	0.072145
30410	120	Rp	1,225,367.00	2.4405	Rp	1,225,367.00	2.4405	615000	120	0.038944	0.038944	0.038364
30410	65	Rp	1,225,367.00	1.7962	Rp	1,225,367.00	1.7962	615000	65	0.052185	0.052185	0.051551
30410	150	Rp	1,225,367.00	2.7286	Rp	1,225,367.00	2.7286	615000	150	0.034976	0.034976	0.034379
30410	109	Rp	1,225,367.00	2.3260	Rp	1,225,367.00	2.3260	615000	109	0.040784	0.040784	0.040059
30410	1072	Rp	44,997.93	38.0649	Rp	44,997.93	38.0649	22584.03	1072	0.066074	0.066074	0.066005
30410	512	Rp	47,054.09	25.7252	Rp	47,054.09	25.7252	23628.3	512	0.090958	0.090958	0.090123
30410	77	Rp	1,225,367.00	1.9549	Rp	1,225,367.00	1.9549	615000	77	0.048151	0.048151	0.04746
30410	510	Rp	45,338.58	26.1562	Rp	45,338.58	26.1562	22755	510	0.092713	0.092713	0.091759
30410	108	Rp	1,225,367.00	2.3153	Rp	1,225,367.00	2.3153	615000	108	0.040964	0.040964	0.040929
30410	500	Rp	63,719.08	21.8461	Rp	63,719.08	21.8461	31980	500	0.080083	0.080083	0.07927
30410	582	Rp	67,395.19	22.9177	Rp	67,395.19	22.9177	33825	582	0.072750	0.072750	0.072145
30410	289	Rp	167,337.31	10.2489	Rp	167,337.31	10.2489	83308.5	289	0.066496	0.066496	0.065522
30410	868	Rp	181,638.24	17.0482	Rp	181,638.24	17.0482	91162.5	868	0.037660	0.037660	0.037538
30410	163	Rp	74,119.76	11.5651	Rp	74,119.76	11.5651	418500	163	0.012410	0.012410	0.012224
30410	690	Rp	185,747.71	15.0309	Rp	185,747.71	15.0309	93225	690	0.041598	0.041598	0.040929

30410	524	Rp	2,465.68	113.6896	Rp	2,465.68	113.6896	1237.5	524	0.301820	0.301820	0.301532
30410	77	Rp	1,793.22	51.1036	Rp	1,793.22	51.1036	900	77	0.569405	0.569405	0.567495
30410	132	Rp	7,692.91	32.3046	Rp	7,692.91	32.3046	3861	132	0.327786	0.327786	0.326355
30410	84	Rp	7,692.91	25.7702	Rp	7,692.91	25.7702	3861	84	0.379369	0.379369	0.378281
30410	148	Rp	9,369.57	30.9952	Rp	9,369.57	30.9952	4702.5	148	0.294421	0.294421	0.29116
30410	72	Rp	6,605.03	25.7485	Rp	6,605.03	25.7485	3315	72	0.416073	0.416073	0.412936
30410	48	Rp	10,355.85	16.7900	Rp	10,355.85	16.7900	5197.5	48	0.410707	0.410707	0.409046
30410	132	Rp	4,027.27	44.6483	Rp	4,027.27	44.6483	2021.25	132	0.402607	0.402607	0.401294

30410	60	Rp	14,196.33	16.0329	Rp	14,196.33	16.0329	7125	60	0.347435	0.347435	0.344578
30410	84	Rp	17,214.91	17.2270	Rp	17,214.91	17.2270	8640	84	0.290087	0.290087	0.28774
30410	96	Rp	16,198.75	18.9853	Rp	16,198.75	18.9853	8130	96	0.282659	0.282659	0.280957
30410	67	Rp	15,212.48	16.3667	Rp	15,212.48	16.3667	7635	67	0.327377	0.327377	0.326355
30410	360	Rp	14,644.63	38.6665	Rp	14,644.63	38.6665	7350	360	0.176280	0.176280	0.176185
30410	873	Rp	7,083.22	86.5795	Rp	7,083.22	86.5795	3555	873	0.164998	0.164998	0.163543

30410	33	Rp	57,950.89	5.8850	Rp	57,950.89	5.8850	29085	33	0.262170	0.262170	0.261086
30410	96	Rp	7,740.73	27.4643	Rp	7,740.73	27.4643	3885	96	0.363064	0.363064	0.359424
30410	24	Rp	19,232.28	8.7119	Rp	19,232.28	8.7119	9652.5	24	0.419704	0.419704	0.416834
30410	24	Rp	27,944.35	7.2274	Rp	27,944.35	7.2274	14025	24	0.375006	0.375006	0.374484
30410	60	Rp	1,434.58	50.4356	Rp	1,434.58	50.4356	720	60	0.626148	0.626148	0.625516
30410	312	Rp	1,972.54	98.0816	Rp	1,972.54	98.0816	990	312	0.385130	0.385130	0.382089
30410	80	Rp	18,410.39	16.2569	Rp	18,410.39	16.2569	9240	80	0.288201	0.288201	0.28774
30410	276	Rp	9,040.82	43.0897	Rp	9,040.82	43.0897	4537.5	276	0.237263	0.237263	0.235762
30410	69	Rp	11,058.19	19.4808	Rp	11,058.19	19.4808	5550	69	0.360013	0.360013	0.359424

30410	168	Rp	11,954.80	29.2352	Rp	11,954.80	29.2352	6000	168	0.257459	0.257459	0.254627
30410	51	Rp	10,460.45	17.2200	Rp	10,460.45	17.2200	5250	51	0.402182	0.402182	0.401294
30410	48	Rp	17,932.20	12.7593	Rp	17,932.20	12.7593	9000	48	0.346249	0.346249	0.344578

30410	96	Rp	4,094.52	37.7622	Rp	4,094.52	37.7622	2055	96	0.439383	0.439383	0.436441
30410	240	Rp	4,722.15	55.5980	Rp	4,722.15	55.5980	2370	240	0.315805	0.315805	0.315614
30410	96	Rp	4,722.15	35.1633	Rp	4,722.15	35.1633	2370	96	0.421901	0.421901	0.42074

30410	1035	Rp	5,977.40	102.6212	Rp	5,977.40	102.6212	3000	1035	0.164965	0.164965	0.163543
30410	765	Rp	8,966.10	72.0364	Rp	8,966.10	72.0364	4500	765	0.157981	0.157981	0.156248
30410	36	Rp	17,932.20	11.0499	Rp	17,932.20	11.0499	9000	36	0.379487	0.379487	0.378281

nilai zu							f(z)				
bil	x1	a+	x2	za-	x3	zu	za	za+	fz-	fz+	x1
-0.01	-4.49826E-07	0.044565	0.000932	1.71	0.00159372	1.7095	1.7095	1.71	0.094	0.0925	-7.23969E-07
-0.01	-5.94708E-06	0.066805	0.001283	1.51	0.00193733	1.5054	1.5054	1.51	0.1276	0.06552	-0.000287759
-0.01	-1.04479E-06	0.40059	0.361386	1.66	0.59990076	1.6600	1.6600	1.66	0.1023	0.1006	-4.9148E-09
-0.01	-1.02033E-05	0.073529	0.001384	1.46	0.00202064	1.4526	1.4526	1.46	0.1394	0.1376	-1.32702E-05
-0.01	-5.79888E-06	0.039204	0.00084	1.77	0.0014868	1.7631	1.7631	1.77	0.0848	0.833	0.005165143
-0.01	-6.34273E-06	0.052616	0.001065	1.63	0.00173595	1.6240	1.6240	1.63	0.1074	0.1057	-1.01245E-05
-0.01	-5.97274E-06	0.035148	0.000769	1.82	0.00139958	1.8122	1.8122	1.82	0.0775	0.0761	-1.08737E-05
-0.01	-7.24507E-06	0.040929	0.00087	1.75	0.0015225	1.7417	1.7417	1.75	0.0878	0.0863	-1.24915E-05
-0.01	-6.93543E-07	0.066807	0.000802	1.5	0.001203	1.4991	1.4991	1.5	0.1315	0.1295	-1.72953E-06
-0.01	-8.34524E-06	0.091759	0.001636	1.34	0.00219224	1.3349	1.3349	1.34	0.1647	0.1626	-1.07121E-05
-0.01	-6.90849E-06	0.048457	0.000997	1.67	0.00166499	1.6631	1.6631	1.67	0.1006	0.0989	-1.17798E-05
-0.01	-9.53862E-06	0.093418	0.001659	1.33	0.00220647	1.3243	1.3243	1.33	0.1669	0.1647	-1.26492E-05
-0.01	-3.5168E-07	0.041815	0.000886	1.74	0.00154164	1.7396	1.7396	1.74	0.0893	0.0878	-5.95395E-07
-0.01	-8.13478E-06	0.080757	0.001487	1.41	0.00209667	1.4045	1.4045	1.41	0.1497	0.1476	-1.14883E-05
-0.01	-6.0534E-06	0.073529	0.001384	1.46	0.00202064	1.4556	1.4556	1.46	0.1394	0.1374	-8.74769E-06
-0.01	-9.7429E-06	0.066807	0.001285	1.51	0.00194035	1.5024	1.5024	1.51	0.1295	0.1276	-1.44058E-05
-0.01	-1.21915E-06	0.038364	0.000826	1.78	0.00147028	1.7785	1.7785	1.78	0.0833	0.0818	-2.21396E-06
-0.01	-1.86165E-06	0.012545	0.000321	2.25	0.00072225	2.2442	2.2442	2.25	0.0325	0.0317	-4.63963E-06
-0.01	-6.69299E-06	0.041815	0.000886	1.74	0.00154164	1.7324	1.7324	1.74	0.0893	0.0878	-1.13313E-05

-0.01	-2.87943E-06	0.305026	0.003494	0.52	0.00181688	0.5192	0.5192	0.52	0.3503	0.3485	-1.48339E-06
-0.01	-1.9099E-05	0.571424	0.003929	1.07	0.00420403	1.0651	1.0651	1.07	0.2275	0.2251	-1.16665E-05
-0.01	-1.43051E-05	0.329969	0.003614	0.45	0.0016263	0.4460	0.4460	0.45	0.3621	0.3605	-6.33318E-06
-0.01	-1.08845E-05	0.382089	0.003808	0.31	0.00118048	0.3071	0.3071	0.31	0.3814	0.3802	-3.42997E-06
-0.01	-3.26116E-05	0.294599	0.003439	0.55	0.00189145	0.5405	0.5405	0.55	0.3488	0.3429	-5.5949E-05
-0.01	-3.13686E-05	0.416834	0.003898	0.22	0.00085756	0.2120	0.2120	0.22	0.3902	0.3894	-6.43788E-06
-0.01	-1.66103E-05	0.412936	0.00389	0.23	0.0008947	0.2257	0.2257	0.23	0.3894	0.3885	-3.84299E-06
-0.01	-1.31331E-05	0.405165	0.003871	0.25	0.00096775	0.2466	0.2466	0.25	0.3876	0.3867	-3.05343E-06

-0.01	-2.85747E-05	0.348268	0.00369	0.4	0.001476	0.3923	0.3923	0.4	0.3697	0.3683	-1.08413E-05
-0.01	-2.34657E-05	0.29116	0.00342	0.56	0.0019152	0.5531	0.5531	0.56	0.3429	0.341	-1.30365E-05
-0.01	-1.70232E-05	0.284339	0.003382	0.58	0.00196156	0.5750	0.5750	0.58	0.3391	0.3372	-9.5636E-06
-0.01	-1.02219E-05	0.329969	0.003614	0.45	0.0016263	0.4472	0.4472	0.45	0.3621	0.3605	-4.52545E-06
-0.01	-9.51301E-07	0.178786	0.002601	0.93	0.00241893	0.9296	0.9296	0.93	0.2613	0.2589	-8.77787E-07
-0.01	-1.45521E-05	0.166023	0.00248	0.98	0.0024304	0.9741	0.9741	0.98	0.2492	0.2468	-1.40826E-05

-0.01	-1.08425E-05	0.264347	0.003261	0.87	0.00283707	0.8667	0.8667	0.87	0.2756	0.2732	-7.97973E-06
-0.01	-3.64012E-05	0.363169	0.003745	0.36	0.0013482	0.3503	0.3503	0.36	0.3752	0.3739	-1.26359E-05
-0.01	-2.86982E-05	0.42074	0.003906	0.21	0.00082026	0.2027	0.2027	0.21	0.391	0.3902	-5.87777E-06
-0.01	-5.21631E-06	0.378281	0.003797	0.32	0.00121504	0.3186	0.3186	0.32	0.3802	0.379	-1.64856E-06
-0.01	-6.31772E-06	0.6293	0.003784	0.32	0.00121088	0.3183	0.3183	0.32	0.3802	0.379	-2.00351E-06
-0.01	-3.04089E-05	0.385908	0.003819	0.3	0.0011457	0.2920	0.2920	0.3	0.3825	0.3814	-8.75879E-06
-0.01	-4.60835E-06	0.29116	0.00342	0.56	0.0019152	0.5587	0.5587	0.56	0.3429	0.341	-2.5602E-06
-0.01	-1.50128E-05	0.238852	0.00309	0.72	0.0022248	0.7151	0.7151	0.72	0.3101	0.3079	-1.06887E-05
-0.01	-5.89357E-06	0.363169	0.003745	0.36	0.0013482	0.3584	0.3584	0.36	0.3752	0.3739	-2.04583E-06

-0.01	-2.83237E-05	0.257846	0.003219	0.66	0.00212454	0.6512	0.6512	0.66	0.323	0.3209	-1.84777E-05
-0.01	-8.88198E-06	0.405165	0.003871	0.25	0.00096775	0.2477	0.2477	0.25	0.3876	0.3867	-2.06504E-06
-0.01	-1.67137E-05	0.348268	0.00369	0.4	0.001476	0.3955	0.3955	0.4	0.3697	0.3683	-6.34123E-06

-0.01	-2.94213E-05	0.440382	0.003941	0.16	0.00063056	0.1525	0.1525	0.16	0.3292	0.3271	-1.56774E-05
-0.01	-1.90921E-06	0.319178	0.003564	0.48	0.00171072	0.4795	0.4795	0.48	0.3572	0.3555	-9.10677E-07
-0.01	-1.16134E-05	0.424655	0.003915	0.2	0.000783	0.1970	0.1970	0.2	0.3918	0.391	-2.37312E-06

-0.01	-1.42226E-05	0.166023	0.00248	0.97	0.0024056	0.9643	0.9643	0.97	0.2516	0.2492	-1.37638E-05
-0.01	-1.73263E-05	0.158655	0.002407	1.1	0.0026477	1.0928	1.0928	1.1	0.3538	0.3521	-1.22371E-05
-0.01	-1.20612E-05	0.382089	0.003808	0.31	0.00118048	0.3068	0.3068	0.31	0.3814	0.3802	-3.80079E-06

x2	x3	fz	r1				Nr1						
			$\mu\tau$	$z\alpha$	$\delta^*(\tau^2)$	r1	$\mu\tau$	r1	alpha	δt	fz	Nr	d
-0.01	-0.000925	0.0926	10.1044	1.7095	0.001962	10.1077	10.1044	10.1077	0.043678	10.0428	0.0926	0.9295	3001
-0.01	-0.0006552	0.0943	3.3939	1.5054	0.001209	3.3958	3.3939	3.3958	0.066117	6.1860	0.0943	0.5832	1008
-0.01	-0.001006	0.1006	8.9933	1.6600	0.001560	8.9959	8.9933	8.9959	0.039308	7.9866	0.1006	0.8034	2671
-0.01	-0.001376	0.1389	2.0606	1.4526	0.000282	2.0610	2.0606	2.0610	0.073165	1.4447	0.1389	0.2007	612
-0.01	-0.00833	0.3165	0.4040	1.7631	0.000036	0.4041	0.4040	0.4041	0.038944	0.1856	0.3165	0.0587	120
-0.01	-0.001057	0.1067	0.2189	1.6240	0.000029	0.2189	0.2189	0.2189	0.052185	0.1486	0.1067	0.0159	65
-0.01	-0.000761	0.0772	0.5051	1.8122	0.000045	0.5051	0.5051	0.5051	0.034976	0.2300	0.0772	0.0177	150
-0.01	-0.000863	0.0875	0.3670	1.7417	0.000035	0.3671	0.3670	0.3671	0.040784	0.1792	0.0875	0.0157	109
-0.01	-0.001295	0.1297	3.6094	1.4991	0.000697	3.6105	3.6094	3.6105	0.066074	3.5671	0.1297	0.4625	1072
-0.01	-0.001626	0.1637	1.7239	1.3349	0.000214	1.7242	1.7239	1.7242	0.090958	1.0931	0.1637	0.1789	512
-0.01	-0.000989	0.1001	0.2593	1.6631	0.000026	0.2593	0.2593	0.2593	0.048151	0.1329	0.1001	0.0133	77
-0.01	-0.001647	0.1660	1.7172	1.3243	0.000204	1.7174	1.7172	1.7174	0.092713	1.0438	0.1660	0.1732	510
-0.01	-0.000878	0.0879	0.3636	1.7396	0.000040	0.3637	0.3636	0.3637	0.040964	0.2072	0.0879	0.0182	108
-0.01	-0.001476	0.1487	1.6835	1.4045	0.000174	1.6837	1.6835	1.6837	0.080083	0.8891	0.1487	0.1322	500
-0.01	-0.001374	0.1383	1.9596	1.4556	0.000189	1.9599	1.9596	1.9599	0.072750	0.9678	0.1383	0.1338	582
-0.01	-0.001276	0.1290	0.9731	1.5024	0.000270	0.9735	0.9731	0.9735	0.066496	1.3831	0.1290	0.1784	289
-0.01	-0.000818	0.0820	2.9226	1.7785	0.000482	2.9234	2.9226	2.9234	0.037660	2.4690	0.0820	0.2025	868
-0.01	-0.000317	0.0322	0.5488	2.2442	0.000060	0.5490	0.5488	0.5490	0.012410	0.3083	0.0322	0.0099	163
-0.01	-0.000878	0.0889	2.3232	1.7324	0.000184	2.3236	2.3232	2.3236	0.041598	0.9394	0.0889	0.0835	690

-0.01	-0.003485	0.3486	1.7643	0.5192	0.000074	1.7643	1.7643	1.7643	0.301820	0.3790	0.3486	0.1321	524
-0.01	-0.002251	0.2263	0.2593	1.0651	0.000026	0.2593	0.2593	0.2593	0.569405	0.1307	0.2263	0.0296	77
-0.01	-0.003605	0.3611	0.4444	0.4460	0.000040	0.4445	0.4444	0.4445	0.327786	0.2041	0.3611	0.0737	132
-0.01	-0.003802	0.3805	0.2828	0.3071	0.000025	0.2828	0.2828	0.2828	0.379369	0.1293	0.3805	0.0492	84
-0.01	-0.003429	0.3485	0.4983	0.5405	0.000027	0.4983	0.4983	0.4983	0.294421	0.1371	0.3485	0.0478	148
-0.01	-0.003894	0.3900	0.2424	0.2120	0.000026	0.2424	0.2424	0.2424	0.416073	0.1341	0.3900	0.0523	72
-0.01	-0.003885	0.3889	0.1616	0.2257	0.000054	0.1616	0.1616	0.1616	0.410707	0.2775	0.3889	0.1079	48
-0.01	-0.003867	0.3870	0.4444	0.2466	0.000045	0.4445	0.4444	0.4445	0.402607	0.2300	0.3870	0.0890	132

-0.01	-0.003683	0.3694	0.2020	0.3923	0.000022	0.2020	0.2020	0.2020	0.347435	0.1140	0.3694	0.0421	60
-0.01	-0.00341	0.3423	0.2828	0.5531	0.000029	0.2828	0.2828	0.2828	0.290087	0.1475	0.3423	0.0505	84
-0.01	-0.003372	0.3382	0.3232	0.5750	0.000030	0.3232	0.3232	0.3232	0.282659	0.1528	0.3382	0.0517	96
-0.01	-0.003605	0.3610	0.2256	0.4472	0.000017	0.2256	0.2256	0.2256	0.327377	0.0891	0.3610	0.0322	67
-0.01	-0.002589	0.2590	1.2121	0.9296	0.000085	1.2122	1.2121	1.2122	0.176280	0.4352	0.2590	0.1127	360
-0.01	-0.002468	0.2482	2.9394	0.9741	0.000223	2.9396	2.9394	2.9396	0.164998	1.1396	0.2482	0.2828	873

-0.01	-0.002732	0.2740	0.1111	0.8667	0.000009	0.1111	0.1111	0.1111	0.262170	0.0486	0.2740	0.0133	33
-0.01	-0.003739	0.3752	0.3232	0.3503	0.000026	0.3232	0.3232	0.3232	0.363064	0.1311	0.3752	0.0492	96
-0.01	-0.003902	0.3908	0.0808	0.2027	0.000010	0.0808	0.0808	0.0808	0.419704	0.0518	0.3908	0.0202	24
-0.01	-0.00379	0.3792	0.0808	0.3186	0.000010	0.0808	0.0808	0.0808	0.375006	0.0497	0.3792	0.0189	24
-0.01	-0.00379	0.3792	0.2020	0.3183	0.000024	0.2020	0.2020	0.2020	0.626148	0.1250	0.3792	0.0474	60
-0.01	-0.003814	0.3823	1.0505	0.2920	0.000045	1.0505	1.0505	1.0505	0.385130	0.2283	0.3823	0.0873	312
-0.01	-0.00341	0.3413	0.2694	0.5587	0.000019	0.2694	0.2694	0.2694	0.288201	0.0973	0.3413	0.0332	80
-0.01	-0.003079	0.3090	0.9293	0.7151	0.000128	0.9294	0.9293	0.9294	0.237263	0.6548	0.3090	0.2023	276
-0.01	-0.003739	0.3741	0.2323	0.3584	0.000018	0.2323	0.2323	0.2323	0.360013	0.0931	0.3741	0.0348	69

-0.01	-0.003209	0.3227	0.5657	0.6512	0.000038	0.5657	0.5657	0.5657	0.257459	0.1927	0.3227	0.0622	168
-0.01	-0.003867	0.3869	0.1717	0.2477	0.000018	0.1717	0.1717	0.1717	0.402182	0.0935	0.3869	0.0362	51
-0.01	-0.003683	0.3689	0.1616	0.3955	0.000013	0.1616	0.1616	0.1616	0.346249	0.0659	0.3689	0.0243	48

-0.01	-0.003271	0.3287	0.3232	0.1525	0.000025	0.3232	0.3232	0.3232	0.439383	0.1282	0.3287	0.0421	96
-0.01	-0.003555	0.3556	0.8081	0.4795	0.000039	0.8081	0.8081	0.8081	0.315805	0.2006	0.3556	0.0713	240
-0.01	-0.00391	0.3912	0.3232	0.1970	0.000021	0.3232	0.3232	0.3232	0.421901	0.1055	0.3912	0.0413	96

-0.01	-0.002492	0.2506	3.4848	0.9643	0.000209	3.4851	3.4848	3.4851	0.164965	1.0721	0.2506	0.2686	1035
-0.01	-0.003521	0.3533	2.5758	1.0928	0.000154	2.5759	2.5758	2.5759	0.157981	0.7863	0.3533	0.2778	765
-0.01	-0.003802	0.3806	0.1212	0.3068	0.000020	0.1212	0.1212	0.1212	0.379487	0.1048	0.3806	0.0399	36

q02					alpha2					
a	phi	Nr	h	q02	H	q2	phi	d	alpha	a1
30410	19357.74	0.9295	38569.65169	86.7891	38569.65169	86.7891	19357.74	3001	0.054483	0.054483
30410	23985	0.5832	47789.313	43.2774	47789.313	43.2774	23985	1008	0.078803	0.078803
30410	27099.36	0.8034	53994.57149	71.8506	53994.57149	71.8506	27099.36	2671	0.050871	0.050871
30410	31774.59	0.2007	63309.81142	26.6685	63309.81142	26.6685	31774.59	612	0.079888	0.079888
30410	615000	0.0587	1225367	3.6099	1225367	3.6099	615000	120	0.056549	0.056549
30410	615000	0.0159	1225367	2.0641	1225367	2.0641	615000	65	0.059507	0.059507
30410	615000	0.0177	1225367	3.1808	1225367	3.1808	615000	150	0.040538	0.040538
30410	615000	0.0157	1225367	2.6696	1225367	2.6696	615000	109	0.046529	0.046529
30410	22584.03	0.4625	44997.92697	44.1203	44997.92697	44.1203	22584.03	1072	0.075789	0.075789
30410	23628.3	0.1789	47054.0928	27.4549	47054.0928	27.4549	23628.3	512	0.096483	0.096483
30410	615000	0.0133	1225367	2.2022	1225367	2.2022	615000	77	0.053912	0.053912
30410	22755	0.1732	45338.579	27.7996	45338.579	27.7996	22755	510	0.097967	0.097967
30410	615000	0.0182	1225367	2.7081	1225367	2.7081	615000	108	0.047584	0.047584
30410	31980	0.1322	63719.084	23.3156	63719.084	23.3156	31980	500	0.085012	0.085012
30410	33825	0.1338	67395.185	24.5640	67395.185	24.5640	33825	582	0.077571	0.077571
30410	83308.5	0.1784	167337.313	12.5055	167337.313	12.5055	83308.5	289	0.079967	0.079967
30410	91162.5	0.2025	181638.2425	21.6115	181638.2425	21.6115	91162.5	868	0.047264	0.047264
30410	418500	0.0099	74119.76	12.3289	74119.76	12.3289	418500	163	0.013219	0.013219
30410	93225	0.0835	185747.705	16.8459	185747.705	16.8459	93225	690	0.046388	0.046388

30410	1237.5	0.1321	2465.6775	113.9948	2465.6775	113.9948	1237.5	524	0.302385	0.302385
30410	900	0.0296	1793.22	51.1260	1793.22	51.1260	900	77	0.569512	0.569512
30410	3861	0.0737	7692.9138	32.4554	7692.9138	32.4554	3861	132	0.328813	0.328813
30410	3861	0.0492	7692.9138	25.8505	7692.9138	25.8505	3861	84	0.380103	0.380103
30410	4702.5	0.0478	9369.5745	31.1094	9369.5745	31.1094	4702.5	148	0.295186	0.295186
30410	3315	0.0523	6605.027	25.8218	6605.027	25.8218	3315	72	0.416764	0.416764
30410	5197.5	0.1079	10355.8455	16.9441	10355.8455	16.9441	5197.5	48	0.412920	0.412920
30410	2021.25	0.0890	4027.27325	44.7801	4027.27325	44.7801	2021.25	132	0.403317	0.403317

30410	7125	0.0421	14196.325	16.1117	14196.325	16.1117	7125	60	0.348549	0.348549
30410	8640	0.0505	17214.912	17.3502	17214.912	17.3502	8640	84	0.291555	0.291555
30410	8130	0.0517	16198.754	19.1160	16198.754	19.1160	8130	96	0.284052	0.284052
30410	7635	0.0322	15212.483	16.4326	15212.483	16.4326	7635	67	0.328263	0.328263
30410	7350	0.1127	14644.63	39.1896	14644.63	39.1896	7350	360	0.178240	0.178240
30410	3555	0.2828	7083.219	87.9991	7083.219	87.9991	3555	873	0.167251	0.167251

30410	29085	0.0133	57950.893	5.9224	57950.893	5.9224	29085	33	0.263395	0.263395
30410	3885	0.0492	7740.733	27.5504	7740.733	27.5504	3885	96	0.363789	0.363789
30410	9652.5	0.0202	19232.2845	8.7398	19232.2845	8.7398	9652.5	24	0.420483	0.420483
30410	14025	0.0189	27944.345	7.2588	27944.345	7.2588	14025	24	0.376021	0.376021
30410	720	0.0474	1434.576	50.4639	1434.576	50.4639	720	60	0.626279	0.626279
30410	990	0.0873	1972.542	98.2208	1972.542	98.2208	990	312	0.385466	0.385466
30410	9240	0.0332	18410.392	16.3387	18410.392	16.3387	9240	80	0.289232	0.289232
30410	4537.5	0.2023	9040.8175	43.7353	9040.8175	43.7353	4537.5	276	0.239965	0.239965
30410	5550	0.0348	11058.19	19.5426	11058.19	19.5426	5550	69	0.360744	0.360744

30410	6000	0.0622	11954.8	29.4141	11954.8	29.4141	6000	168	0.258627	0.258627
30410	5250	0.0362	10460.45	17.2737	10460.45	17.2737	5250	51	0.402931	0.402931
30410	9000	0.0243	17932.2	12.8051	17932.2	12.8051	9000	48	0.347061	0.347061

30410	2055	0.0421	4094.519	37.8159	4094.519	37.8159	2055	96	0.439733	0.439733
30410	2370	0.0713	4722.146	55.7523	4722.146	55.7523	2370	240	0.316404	0.316404
30410	2370	0.0413	4722.146	35.2198	4722.146	35.2198	2370	96	0.422293	0.422293

30410	3000	0.2686	5977.4	103.9720	5977.4	103.9720	3000	1035	0.166774	0.166774
30410	4500	0.2778	8966.1	73.5020	8966.1	73.5020	4500	765	0.160678	0.160678
30410	9000	0.0399	17932.2	11.1149	17932.2	11.1149	9000	36	0.380869	0.380869

nilai zu								r2			
a-	bil	x1	a+	x2	za-	x3	za	$\mu\tau$	za	$\sigma^*((\tau)^2)$	r2
0.053699	-0.01	-7.83822E-06	0.054799	0.0011	1.61	0.001771	1.6029	10.1044	1.6029	0.001962	10.1075
0.077804	-0.01	-9.99188E-06	0.07927	0.001466	1.42	0.00208172	1.4132	3.3939	1.4132	0.001209	3.3956
0.050503	-0.01	-3.68272E-06	0.051551	0.001048	1.64	0.00171872	1.6365	8.9933	1.6365	0.001560	8.9958
0.07927	-0.01	-6.1757E-06	0.080757	0.001487	1.41	0.00209667	1.4058	2.0606	1.4058	0.000282	2.0610
0.055917	-0.01	-6.32396E-06	0.057053	0.001136	1.59	0.00180624	1.5844	0.4040	1.5844	0.000036	0.4041
0.05938	-0.01	-1.26749E-06	0.060571	0.001191	1.56	0.00185796	1.5589	0.2189	1.5589	0.000029	0.2189
0.040059	-0.01	-4.78754E-06	0.040929	0.00087	1.75	0.0015225	1.7445	0.5051	1.7445	0.000045	0.5051
0.046479	-0.01	-4.9502E-07	0.04746	0.000981	1.68	0.00164808	1.6795	0.3670	1.6795	0.000035	0.3671
0.074934	-0.01	-8.54902E-06	0.076359	0.001425	1.44	0.002052	1.4340	3.6094	1.4340	0.000697	3.6104
0.095098	-0.01	-1.38501E-05	0.096801	0.001703	1.32	0.00224796	1.3119	1.7239	1.3119	0.000214	1.7242
0.053699	-0.01	-2.13163E-06	0.054799	0.0011	1.61	0.001771	1.6081	0.2593	1.6081	0.000026	0.2593
0.096801	-0.01	-1.16627E-05	0.098525	0.001724	1.2	0.0020688	1.1932	1.7172	1.1932	0.000204	1.7174
0.04746	-0.01	-1.24447E-06	0.048457	0.000997	1.66	0.00165502	1.6588	0.3636	1.6588	0.000040	0.3637
0.083793	-0.01	-1.21939E-05	0.085343	0.00155	1.38	0.002139	1.3721	1.6835	1.3721	0.000174	1.6837
0.076359	-0.01	-1.21204E-05	0.077804	0.001445	1.43	0.00206635	1.4216	1.9596	1.4216	0.000189	1.9599
0.07927	-0.01	-6.96895E-06	0.080757	0.001487	1.41	0.00209667	1.4053	0.9731	1.4053	0.000270	0.9734
0.046479	-0.01	-7.84794E-06	0.04746	0.000981	1.68	0.00164808	1.6720	2.9226	1.6720	0.000482	2.9234
0.013209	-0.01	-9.96636E-08	0.013553	0.000344	2.22	0.00076368	2.2197	0.5488	2.2197	0.000060	0.5490
0.045514	-0.01	-8.74113E-06	0.046479	0.000965	1.68	0.0016212	1.6709	2.3232	1.6709	0.000184	2.3235

0.301532	-0.01	-8.53201E-06	0.305026	0.003494	0.52	0.00181688	0.5176	1.7643	0.5176	0.000074	1.7643
0.567495	-0.01	-2.01713E-05	0.571424	0.003929	0.17	0.00066793	0.1649	0.2593	0.1649	0.000026	0.2593
0.326355	-0.01	-2.45756E-05	0.329969	0.003614	0.45	0.0016263	0.4432	0.4444	0.4432	0.000040	0.4445
0.378281	-0.01	-1.82178E-05	0.382089	0.003808	0.31	0.00118048	0.3052	0.2828	0.3052	0.000025	0.2828
0.294599	-0.01	-5.87152E-06	0.298056	0.003457	0.54	0.00186678	0.5383	0.4983	0.5383	0.000027	0.4983
0.412936	-0.01	-3.82773E-05	0.416834	0.003898	0.22	0.00085756	0.2102	0.2424	0.2102	0.000026	0.2424
0.409046	-0.01	-3.87407E-05	0.412936	0.00389	0.23	0.0008947	0.2200	0.1616	0.2200	0.000054	0.1616
0.401294	-0.01	-2.02277E-05	0.405165	0.003871	0.25	0.00096775	0.2448	0.4444	0.2448	0.000045	0.4445

0.348268	-0.01	-2.80992E-06	0.451973	0.103705	0.39	0.04044495	0.3900	0.2020	0.3900	0.000022	0.2020
0.29116	-0.01	-3.95358E-06	0.294599	0.003439	0.55	0.00189145	0.5489	0.2828	0.5489	0.000029	0.2828
0.280957	-0.01	-3.09517E-05	0.284339	0.003382	0.58	0.00196156	0.5708	0.3232	0.5708	0.000030	0.3232
0.326355	-0.01	-1.90805E-05	0.329969	0.003614	0.45	0.0016263	0.4447	0.2256	0.4447	0.000017	0.2256
0.176185	-0.01	-2.05474E-05	0.178786	0.002601	0.93	0.00241893	0.9221	1.2121	0.9221	0.000085	1.2122
0.166023	-0.01	-1.2281E-05	0.168528	0.002505	0.97	0.00242985	0.9651	2.9394	0.9651	0.000223	2.9396

0.261086	-0.01	-2.30944E-05	0.264347	0.003261	0.64	0.00208704	0.6329	0.1111	0.6329	0.000009	0.1111
0.363469	-0.01	-3.19558E-06	0.366928	0.003459	0.35	0.00121065	0.3491	0.3232	0.3491	0.000026	0.3232
0.416834	-0.01	-3.64945E-05	0.42074	0.003906	0.21	0.00082026	0.2007	0.0808	0.2007	0.000010	0.0808
0.374484	-0.01	-1.53692E-05	0.378281	0.003797	0.32	0.00121504	0.3160	0.0808	0.3160	0.000010	0.0808
0.625516	-0.01	-7.62986E-06	0.6293	0.003784	0.32	0.00121088	0.3180	0.2020	0.3180	0.000024	0.2020
0.0382089	-0.01	-0.00347257	0.385908	0.3476991	0.3	0.10430973	0.2900	1.0505	0.2900	0.000045	1.0505
0.28774	-0.01	-1.49185E-05	0.29116	0.00342	0.56	0.0019152	0.5556	0.2694	0.5556	0.000019	0.2694
0.238852	-0.01	-1.11275E-05	0.241964	0.003112	0.71	0.00220952	0.7064	0.9293	0.7064	0.000128	0.9294
0.359424	-0.01	-1.31986E-05	0.363169	0.003745	0.36	0.0013482	0.3565	0.2323	0.3565	0.000018	0.2323

0.257846	-0.01	-7.80956E-06	0.261086	0.00324	0.65	0.002106	0.6476	0.5657	0.6476	0.000038	0.5657
0.401294	-0.01	-1.63652E-05	0.406165	0.004871	0.25	0.00121775	0.2466	0.1717	0.2466	0.000018	0.1717
0.344578	-0.01	-2.48304E-05	0.348268	0.00369	0.4	0.001476	0.3933	0.1616	0.3933	0.000013	0.1616

0.436441	-0.01	-3.2922E-05	0.440382	0.003941	0.16	0.00063056	0.1516	0.3232	0.1516	0.000025	0.3232
0.315614	-0.01	-7.9006E-06	0.319178	0.003564	0.48	0.00171072	0.4778	0.8081	0.4778	0.000039	0.8081
0.42074	-0.01	-1.55299E-05	0.424655	0.003915	0.2	0.000783	0.1960	0.3232	0.1960	0.000021	0.3232

0.166023	-0.01	-7.51444E-06	0.168528	0.002505	0.97	0.00242985	0.9670	3.4848	0.9670	0.000209	3.4851
0.158655	-0.01	-2.02334E-05	0.161087	0.002432	0.1	0.0002432	0.0917	2.5758	0.0917	0.000154	2.5758
0.378281	-0.01	-2.5885E-05	0.382089	0.385908	0.31	0.11963148	0.3099	0.1212	0.3099	0.000020	0.1212

ITerasi			fz									
r1	r2	iterasi	za	za+	fz-	fz+	x1	x2	x3	fz	d	q2
10.1077	10.1075	0.002070	1.6029	1.61	0.104	0.1023	-1.21136E-05	-0.01	-0.001023	0.1035	3001	86.7891
3.3958	3.3956	0.003281	1.4132	1.42	0.1257	0.1238	-1.29499E-05	-0.01	-0.001238	0.1251	1008	43.2774
8.9959	8.9958	0.000408	1.6365	1.64	0.10657	0.104	-9.0311E-06	-0.01	-0.00104	0.1049	2671	71.8506
2.0610	2.0610	0.000641	1.4058	1.41	0.1456	0.1435	-8.72157E-06	-0.01	-0.001435	0.1444	612	26.6685
0.4041	0.4041	0.001603	1.5844	1.59	0.1374	0.1354	-1.11337E-05	-0.01	-0.001354	0.1365	120	3.6099
0.2189	0.2189	0.000863	1.5589	1.56	0.1163	0.1145	-1.9156E-06	-0.01	-0.001145	0.1147	65	2.0641
0.5051	0.5051	0.000602	1.7445	1.75	0.0848	0.0848	0	-0.01	-0.000848	0.0848	150	3.1808
0.3671	0.3671	0.000593	1.6795	1.68	0.1127	0.1109	-9.08294E-07	-0.01	-0.001109	0.1110	109	2.6696
3.6105	3.6104	0.001257	1.4340	1.44	0.1394	0.1374	-1.19986E-05	-0.01	-0.001374	0.1386	1072	44.1203
1.7242	1.7242	0.000285	1.3119	1.32	0.1691	0.1669	-1.78921E-05	-0.01	-0.001669	0.1687	512	27.4549
0.2593	0.2593	0.000551	1.6081	1.61	0.1714	0.1691	-4.45705E-06	-0.01	-0.001691	0.1695	77	2.2022
1.7174	1.7174	0.001556	1.1932	1.2	0.1561	0.1539	-1.48828E-05	-0.01	-0.001539	0.1554	510	27.7996
0.3637	0.3637	0.000900	1.6588	1.66	0.0957	0.094	-2.12197E-06	-0.01	-0.00094	0.0942	108	2.7081
1.6837	1.6837	0.000334	1.3721	1.38	0.1561	0.1539	-1.73075E-05	-0.01	-0.001539	0.1556	500	23.3156
1.9599	1.9599	0.000328	1.4216	1.43	0.1435	0.1415	-1.67757E-05	-0.01	-0.001415	0.1432	582	24.5640
0.9735	0.9734	0.002695	1.4053	1.41	0.1435	0.1415	-9.37316E-06	-0.01	-0.001415	0.1424	289	12.5055
2.9234	2.9234	0.001758	1.6720	1.68	0.0925	0.0909	-1.27999E-05	-0.01	-0.000909	0.0922	868	21.6115
0.5490	0.5490	0.000269	2.2197	2.22	0.2107	0.2083	-6.95328E-07	-0.01	-0.002083	0.2084	163	12.3289
2.3236	2.3235	0.000486	1.6709	1.68	0.094	0.0925	-1.35872E-05	-0.01	-0.000925	0.0939	690	16.8459

1.7643	1.7643	0.000007	0.5176	0.52	0.3503	0.3485	-4.39543E-06	-0.01	-0.003485	0.3489	524	113.9948
0.2593	0.2593	0.008869	0.1649	0.17	0.3085	0.3932	0.000434846	-0.01	-0.003932	0.3497	77	51.1260
0.4445	0.4445	0.000025	0.4432	0.45	0.3621	0.3605	-1.08802E-05	-0.01	-0.003605	0.3616	132	32.4554
0.2828	0.2828	0.000017	0.3052	0.31	0.3814	0.3802	-5.74091E-06	-0.01	-0.003802	0.3808	84	25.8505
0.4983	0.4983	0.000012	0.5383	0.54	0.3467	0.3448	-3.22704E-06	-0.01	-0.003448	0.3451	148	31.1094
0.2424	0.2424	0.000019	0.2102	0.22	0.391	0.3902	-7.85578E-06	-0.01	-0.003902	0.3910	72	25.8218
0.1616	0.1616	0.000191	0.2200	0.23	0.3902	0.3894	-7.96723E-06	-0.01	-0.003894	0.3902	48	16.9441
0.4445	0.4445	0.000019	0.2448	0.25	0.3876	0.3867	-4.70291E-06	-0.01	-0.003867	0.3872	132	44.7801

0.2020	0.2020	0.000025	0.3900	0.39	0.3725	0.3697	-7.5867E-08	-0.01	-0.003697	0.3697	60	16.1117
0.2828	0.2828	0.000044	0.5489	0.55	0.3448	0.3429	-2.1843E-06	-0.01	-0.003429	0.3431	84	17.3502
0.3232	0.3232	0.000038	0.5708	0.58	0.341	0.3391	-1.73886E-05	-0.01	-0.003391	0.3408	96	19.1160
0.2256	0.2256	0.000019	0.4447	0.45	0.3637	0.3621	-8.44737E-06	-0.01	-0.003621	0.3629	67	16.4326
1.2122	1.2122	0.000053	0.9221	0.93	0.2613	0.2589	-1.89596E-05	-0.01	-0.002589	0.2608	360	39.1896
2.9396	2.9396	0.000068	0.9651	0.97	0.2516	0.2492	-1.17662E-05	-0.01	-0.002492	0.2504	873	87.9991

0.1111	0.1111	0.001997	0.6329	0.64	0.3271	0.3251	-1.4164E-05	-0.01	-0.003251	0.3265	33	5.9224
0.3232	0.3232	0.000010	0.3491	0.35	0.3765	0.3752	-1.201E-06	-0.01	-0.003752	0.3753	96	27.5504
0.0808	0.0808	0.000025	0.2007	0.21	0.3918	0.391	-7.47454E-06	-0.01	-0.00391	0.3917	24	8.7398
0.0808	0.0808	0.000032	0.3160	0.32	0.3802	0.379	-4.85727E-06	-0.01	-0.00379	0.3795	24	7.2588
0.2020	0.2020	0.000004	0.3180	0.32	0.3802	0.379	-2.41962E-06	-0.01	-0.00379	0.3792	60	50.4639
1.0505	1.0505	0.000009	0.2900	0.3	0.3825	0.3814	-1.0986E-05	-0.01	-0.003814	0.3825	312	98.2208
0.2694	0.2694	0.000021	0.5556	0.56	0.3448	0.3429	-8.28804E-06	-0.01	-0.003429	0.3437	80	16.3387
0.9294	0.9294	0.000120	0.7064	0.71	0.3123	0.3101	-7.86647E-06	-0.01	-0.003101	0.3109	276	43.7353
0.2323	0.2323	0.000015	0.3565	0.36	0.3752	0.3725	-9.51565E-06	-0.01	-0.003725	0.3735	69	19.5426

0.5657	0.5657	0.000024	0.6476	0.65	0.323	0.3251	5.06175E-06	-0.01	-0.003251	0.3246	168	29.4141
0.1717	0.1717	0.000011	0.2466	0.25	0.3876	0.3867	-3.02374E-06	-0.01	-0.003867	0.3870	51	17.2737
0.1616	0.1616	0.000018	0.3933	0.4	0.3697	0.3683	-9.42075E-06	-0.01	-0.003683	0.3692	48	12.8051

0.3232	0.3232	0.000007	0.1516	0.16	0.3872	0.3852	-1.67074E-05	-0.01	-0.003852	0.3869	96	37.8159
0.8081	0.8081	0.000008	0.4778	0.48	0.3589	0.3572	-3.76852E-06	-0.01	-0.003572	0.3576	240	55.7523
0.3232	0.3232	0.000006	0.1960	0.2	0.3842	0.3831	-4.36344E-06	-0.01	-0.003831	0.3835	96	35.2198

3.4851	3.4851	0.000000	0.9670	0.97	0.2516	0.2492	-7.19947E-06	-0.01	-0.002492	0.2499	1035	103.9720
2.5759	2.5758	0.005970	0.0917	0.1	0.2444	0.242	-1.99672E-05	-0.01	-0.00242	0.2440	765	73.5020
0.1212	0.1212	0.000000	0.3099	0.3825	0.3814	0.3563	-0.001821434	-0.01	-0.003563	0.5384	36	11.1149

pesan			simpan								
a	pesan	h	q2	r2	$\mu\tau$	nr	simpan	phi	d		
30410	Rp 1,051,519.4639	38569.65169	86.7891	10.1075	10.1044	0.9295	Rp 1,709,685.8027	19357.74	3001		
30410	Rp 708,298.1771	47789.313	43.2774	3.3956	3.3939	0.5832	Rp 1,062,049.7547	23985	1008		
30410	Rp 1,130,472.5061	53994.57149	71.8506	8.9958	8.9933	0.8034	Rp 1,983,285.2860	27099.36	2671		
30410	Rp 697,861.3861	63309.81142	26.6685	2.0610	2.0606	0.2007	Rp 856,918.8461	31774.59	612		
30410	Rp 1,010,877.8565	1225367	3.6099	0.4041	0.4040	0.0587	Rp 2,283,794.6786	615000	120		
30410	Rp 957,628.2349	1225367	2.0641	0.2189	0.2189	0.0159	Rp 1,284,127.1719	615000	65		
30410	Rp 1,434,087.6416	1225367	3.1808	0.5051	0.5051	0.0177	Rp 1,970,647.1003	615000	150		
30410	Rp 1,241,641.2411	1225367	2.6696	0.3671	0.3670	0.0157	Rp 1,654,920.0738	615000	109		
30410	Rp 738,878.5284	44997.92697	44.1203	3.6104	3.6094	0.4625	Rp 1,013,516.4037	22584.03	1072		
30410	Rp 567,109.3501	47054.0928	27.4549	1.7242	1.7239	0.1789	Rp 654,362.6424	23628.3	512		
30410	Rp 1,063,291.1160	1225367	2.2022	0.2593	0.2593	0.0133	Rp 1,365,592.1221	615000	77		
30410	Rp 557,890.2448	45338.579	27.7996	1.7174	1.7172	0.1732	Rp 638,060.1130	22755	510		
30410	Rp 1,212,743.4400	1225367	2.7081	0.3637	0.3636	0.0182	Rp 1,681,622.9406	615000	108		
30410	Rp 652,139.4321	63719.084	23.3156	1.6837	1.6835	0.1322	Rp 751,263.9651	31980	500		
30410	Rp 720,511.2581	67395.185	24.5640	1.9599	1.9596	0.1338	Rp 836,782.8120	33825	582		
30410	Rp 702,769.8477	167337.313	12.5055	0.9734	0.9731	0.1784	Rp 1,076,242.4926	83308.5	289		
30410	Rp 1,221,382.1660	181638.2425	21.6115	2.9234	2.9226	0.2025	Rp 1,999,659.8279	91162.5	868		
30410	Rp 402,048.3261	74119.76	12.3289	0.5490	0.5488	0.0099	Rp 457,653.8933	418500	163		
30410	Rp 1,245,582.3291	185747.705	16.8459	2.3235	2.3232	0.0835	Rp 1,580,112.0269	93225	690		

30410	Rp 139,785.6650	2465.6775	113.9948	1.7643	1.7643	0.1321	Rp 140,863.0751	1237.5	524
30410	Rp 45,799.9946	1793.22	51.1260	0.2593	0.2593	0.0296	Rp 45,893.1011	900	77
30410	Rp 123,680.9786	7692.9138	32.4554	0.4445	0.4444	0.0737	Rp 125,405.6023	3861	132
30410	Rp 98,815.7389	7692.9138	25.8505	0.2828	0.2828	0.0492	Rp 99,811.5131	3861	84
30410	Rp 144,672.4825	9369.5745	31.1094	0.4983	0.4983	0.0478	Rp 146,188.8025	4702.5	148
30410	Rp 84,793.4087	6605.027	25.8218	0.2424	0.2424	0.0523	Rp 85,622.4318	3315	72
30410	Rp 86,146.7167	10355.8455	16.9441	0.1616	0.1616	0.1079	Rp 88,852.7909	5197.5	48
30410	Rp 89,640.6569	4027.27325	44.7801	0.4445	0.4444	0.0890	Rp 90,529.3585	2021.25	132

30410	Rp 113,246.6629	14196.325	16.1117	0.2020	0.2020	0.0421	Rp 114,961.4760	7125	60
30410	Rp 147,228.6662	17214.912	17.3502	0.2828	0.2828	0.0505	Rp 150,210.1441	8640	84
30410	Rp 152,718.1818	16198.754	19.1160	0.3232	0.3232	0.0517	Rp 155,664.8576	8130	96
30410	Rp 123,989.4474	15212.483	16.4326	0.2256	0.2256	0.0322	Rp 125,479.6401	7635	67
30410	Rp 279,349.6103	14644.63	39.1896	1.2122	1.2121	0.1127	Rp 288,610.1489	7350	360
30410	Rp 301,684.2070	7083.219	87.9991	2.9396	2.9394	0.2828	Rp 313,663.0962	3555	873

30410	Rp 169,446.9056	57950.893	5.9224	0.1111	0.1111	0.0133	Rp 172,375.3869	29085	33
30410	Rp 105,964.3857	7740.733	27.5504	0.3232	0.3232	0.0492	Rp 107,010.8291	3885	96
30410	Rp 83,507.2974	19232.2845	8.7398	0.0808	0.0808	0.0202	Rp 84,432.5889	9652.5	24
30410	Rp 100,546.1634	27944.345	7.2588	0.0808	0.0808	0.0189	Rp 101,947.6075	14025	24
30410	Rp 36,156.5649	1434.576	50.4639	0.2020	0.2020	0.0474	Rp 36,265.1052	720	60
30410	Rp 96,597.8610	1972.542	98.2208	1.0505	1.0505	0.0873	Rp 97,044.5241	990	312
30410	Rp 148,898.1610	18410.392	16.3387	0.2694	0.2694	0.0332	Rp 151,012.4451	9240	80
30410	Rp 191,908.3072	9040.8175	43.7353	0.9294	0.9293	0.2023	Rp 199,531.0754	4537.5	276
30410	Rp 107,370.1238	11058.19	19.5426	0.2323	0.2323	0.0348	Rp 108,438.1509	5550	69

30410	Rp	173,688.2691	11954.8	29.4141	0.5657	0.5657	0.0622	Rp	176,563.5378	6000	168
30410	Rp	89,784.6715	10460.45	17.2737	0.1717	0.1717	0.0362	Rp	90,723.4089	5250	51
30410	Rp	113,991.9547	17932.2	12.8051	0.1616	0.1616	0.0243	Rp	115,247.8748	9000	48

30410	Rp	77,199.2571	4094.519	37.8159	0.3232	0.3232	0.0421	Rp	77,591.4424	2055	96
30410	Rp	130,907.6156	4722.146	55.7523	0.8081	0.8081	0.0713	Rp	131,972.1088	2370	240
30410	Rp	82,889.8305	4722.146	35.2198	0.3232	0.3232	0.0413	Rp	83,351.3217	2370	96

30410	Rp	302,719.6161	5977.4	103.9720	3.4851	3.4848	0.2686	Rp	312,347.7072	3000	1035
30410	Rp	316,503.5420	8966.1	73.5020	2.5758	2.5758	0.2778	Rp	332,003.9157	4500	765
30410	Rp	98,494.8428	17932.2	11.1149	0.1212	0.1212	0.0399	Rp	100,372.4803	9000	36

ok			ok	total
q2	nr			
86.7891	0.9295	Rp	622,192.8867	Rp 3,383,398.1533
43.2774	0.5832	Rp	325,799.6364	Rp 2,096,147.5681
71.8506	0.8034	Rp	809,298.2468	Rp 3,923,056.0390
26.6685	0.2007	Rp	146,327.6314	Rp 1,701,107.8635
3.6099	0.0587	Rp	1,200,867.7209	Rp 4,495,540.2559
2.0641	0.0159	Rp	307,017.8941	Rp 2,548,773.3009
3.1808	0.0177	Rp	514,716.3952	Rp 3,919,451.1372
2.6696	0.0157	Rp	393,980.8722	Rp 3,290,542.1871
44.1203	0.4625	Rp	253,781.8103	Rp 2,006,176.7424
27.4549	0.1789	Rp	78,822.9206	Rp 1,300,294.9131
2.2022	0.0133	Rp	285,954.9008	Rp 2,714,838.1390
27.7996	0.1732	Rp	72,305.8934	Rp 1,268,256.2512
2.7081	0.0182	Rp	446,489.7491	Rp 3,340,856.1296
23.3156	0.1322	Rp	90,683.8236	Rp 1,494,087.2208
24.5640	0.1338	Rp	107,235.5368	Rp 1,664,529.6068
12.5055	0.1784	Rp	343,548.7349	Rp 2,122,561.0752
21.6115	0.2025	Rp	741,353.7351	Rp 3,962,395.7290
12.3289	0.0099	Rp	54,860.7393	Rp 914,562.9588
16.8459	0.0835	Rp	318,957.1751	Rp 3,144,651.5311

113.9948	0.1321	Rp	751.5513	Rp 281,400.2913
51.1260	0.0296	Rp	40.0780	Rp 91,733.1737
32.4554	0.0737	Rp	1,157.4545	Rp 250,244.0354
25.8505	0.0492	Rp	617.2409	Rp 199,244.4928
31.1094	0.0478	Rp	1,068.6282	Rp 291,929.9132
25.8218	0.0523	Rp	483.4951	Rp 170,899.3356
16.9441	0.1079	Rp	1,588.6094	Rp 176,588.1170
44.7801	0.0890	Rp	530.2469	Rp 180,700.2623

16.1117	0.0421	Rp	1,117.0364	Rp 229,325.1753
17.3502	0.0505	Rp	2,112.0192	Rp 299,550.8294
19.1160	0.0517	Rp	2,109.4685	Rp 310,492.5078
16.4326	0.0322	Rp	1,000.9384	Rp 250,470.0259
39.1896	0.1127	Rp	7,608.9991	Rp 575,568.7583
87.9991	0.2828	Rp	9,974.1393	Rp 625,321.4425

5.9224	0.0133	Rp	2,156.8762	Rp 343,979.1687
27.5504	0.0492	Rp	665.7152	Rp 213,640.9300
8.7398	0.0202	Rp	536.1991	Rp 168,476.0854
7.2588	0.0189	Rp	874.4183	Rp 203,368.1892
50.4639	0.0474	Rp	40.5596	Rp 72,462.2297
98.2208	0.0873	Rp	274.4740	Rp 193,916.8591
16.3387	0.0332	Rp	1,502.6276	Rp 301,413.2337
43.7353	0.2023	Rp	5,792.9515	Rp 397,232.3342
19.5426	0.0348	Rp	682.6971	Rp 216,490.9717

29.4141	0.0622	Rp	2,131.4306	Rp	352,383.2376
17.2737	0.0362	Rp	560.4633	Rp	181,068.5437
12.8051	0.0243	Rp	819.9799	Rp	230,059.8094

37.8159	0.0421	Rp	219.7197	Rp	155,010.4192
55.7523	0.0713	Rp	727.6228	Rp	263,607.3472
35.2198	0.0413	Rp	266.5957	Rp	166,507.7480

103.9720	0.2686	Rp	8,021.3629	Rp	623,088.6862
73.5020	0.2778	Rp	13,009.6934	Rp	661,517.1511
11.1149	0.0399	Rp	1,162.4322	Rp	200,029.7553
				Rp	58,168,947.8623

GRAHA NIAGA

no	Nama Barang	Ongkos Total	q2=Q*
1	HVS 60 GRAM 61X86 CM.	Rp 3,383,398.1533	86.7891
2	HVS 60 GRAM 65X100 CM.	Rp 2,096,147.5681	43.2774
3	HVS 60 GRAM 72X102 CM.	Rp 3,923,056.0390	71.8506
4	HVS 60 GRAM 79X109 CM.	Rp 1,701,107.8635	26.6685
5	HVS 60 GRAM 72 CM. IN ROLL.	Rp 4,495,540.2559	3.6099
6	HVS 60 GRAM 73 CM. IN ROLL.	Rp 2,548,773.3009	2.0641
7	HVS 60 GRAM 84 CM IN ROLL.	Rp 3,919,451.1372	3.1808
8	HVS 60 GRAM 86 CM IN ROLL.	Rp 3,290,542.1871	2.6696
9	HVS 70 GRAM 61X86 CM.	Rp 2,006,176.7424	44.1203
10	HVS 70 GRAM 65X100 CM.	Rp 1,300,294.9131	27.4549
11	HVS 70 GRAM 73 CM. IN ROLL	Rp 2,714,838.1390	2.2022
12	HVS 70 GRAM 79X109 CM.	Rp 1,268,256.2512	27.7996
13	HVS 70 GRAM 84 CM IN ROLL.	Rp 3,340,856.1296	2.7081
14	HVS 80 GRAM 61X86 CM.	Rp 1,494,087.2208	23.3156
15	HVS 80 GRAM 65X100 CM.	Rp 1,664,529.6068	24.5640
16	IVORY 170 GRAM 66X90 CM.	Rp 2,122,561.0752	12.5055
17	IVORY 170 GRAM 79X109 CM.	Rp 3,962,395.7290	21.6115
18	KORAN 48.8 GRAM 84 CM IN ROLL.	Rp 914,562.9588	12.3289
19	KUNSDRUK 210 GRAM 79X109 CM.	Rp 3,144,651.5311	16.8459
TOTAL		Rp 49,291,226.8022	

EKA GRAFIKA

no	Nama Barang	Ongkos Total	q2=Q*
20	ASTRALON	Rp 281,400.2913	113.9948
21	PLATE POSITIF GTO / RYOBI 510X400X0,15	Rp 91,733.1737	51.1260
22	PLATE NEGATIF WEB 900X576X0,30X40 SD200	Rp 250,244.0354	32.4554
23	PLATE POSITIF WEB 900X576X30 SOLNA D200	Rp 199,244.4928	25.8505
24	PLATE POSITIF WEB 995X637X50 SOLNA D300	Rp 291,929.9132	31.1094
25	PLATE POSITIF A5022 HP80 745X605X30	Rp 170,899.3356	25.8218
26	PLATE SORS POSIT 1030X770X0.30X50	Rp 176,588.1170	16.9441
27	FILM	Rp 180,700.2623	44.7801
TOTAL		Rp 1,642,739.6214	

CITRA GRAFIKA

no	Nama Barang	Ongkos Total	q2=Q*
28	CAHAYA PROCESS BLACK	Rp 229,325.1753	16.1117
29	CAHAYA PROCESS CYAN	Rp 299,550.8294	17.3502
30	CAHAYA PROCESS MAGENTA	Rp 310,492.5078	19.1160
31	CAHAYA PROCESS YELLOW	Rp 250,470.0259	16.4326
32	COATES WEB BLACK D2	Rp 575,568.7583	39.1896
33	W BLACK II/III OFFSET	Rp 625,321.4425	87.9991
TOTAL		Rp 2,290,728.7394	

FORTUNA

no	Nama Barang	Ongkos Total	q2=Q*
34	ROLL AIR SORS	Rp 343,979.1687	5.9224
35	ISOPROPHYL ALCOHOL	Rp 213,640.9300	27.5504
36	ROEFISIL	Rp 168,476.0854	8.7398
37	SPARAGUM	Rp 203,368.1892	7.2588
38	COLCO AQUA DAMP	Rp 72,462.2297	50.4639
39	COLCO BLANKET WASH	Rp 193,916.8591	98.2208
40	PLATE CLEANER	Rp 301,413.2337	16.3387
41	RC 73 STABIGUM @ 5 LITER	Rp 397,232.3342	43.7353
42	MASTER PLATE ETCHING STAR	Rp 216,490.9717	19.5426
TOTAL		Rp 2,110,980.0018	

TONDIRAYA

no	Nama Barang	Ongkos Total	q2=Q*
43	KAWAT JAHIT NO.26	Rp 352,383.2376	29.4141
44	PANFIX 1 X 72X 6 ROLL	Rp 181,068.5437	17.2737
45	SPRY MONT	Rp 230,059.8094	12.8051
TOTAL		Rp763,511.5906	

PLASTIK

no	Nama Barang	Ongkos Total	q2=Q*
46	PLASTIK PE 42X60X0.5	Rp 155,010.4192	37.8159
47	PLASTIK PE 53X60X0.5	Rp 263,607.3472	55.7523
48	PLASTIK PE 50X55X0.5	Rp 166,507.7480	35.2198
TOTAL		Rp 585,125.5144	

HENKEL

no	Nama Barang	Ongkos Total	q2=Q*
49	LEM HENKEL Q 2216 / Q20 (PUNGGUNG).	Rp 623,088.6862	103.9720
50	LEM HENKEL Q 2432 ID (SAMPING).	Rp 661,517.1511	73.5020
51	GUMTAPE 48 MM X 72 ROLL	Rp 200,029.7553	11.1149
TOTAL		Rp 2,654,886.6213	