

BAB 6

KESIMPULAN dan SARAN

6.1. Kesimpulan

Berdasarkan hasil penelitian mengenai sistem perencanaan persediaan kayu di PT. Nagabhuana Anekapiranti maka dapat ditarik kesimpulan bahwa metode pembelian yang dapat menghasilkan biaya paling kecil adalah skenario kelima dengan jumlah pesanan sebesar 95% dari perhitungan semula, periode pemesanannya satu setengah minggu sebelum penggunaan. Skenario tersebut menghasilkan menghasilkan biaya rata-rata sebesar Rp. 1.162.420.166,00 dan standar deviasi Rp. 14.500.261,94. Waktu dan banyaknya pemesanan adalah sebagai berikut, 4 Januari 2007 pesan 40,67 m³, 18 Januari 2007 pesan 33,6965 m³, 1 Februari 2007 pesan 19,6365 m³, 15 Februari 2007 pesan 56,145 m³, 1 Maret 2007 pesan 17,4515 m³, dan 15 Maret 2007 49,6565 m³. Skenario inilah yang dipilih sebagai solusi untuk memecahkan persoalan persediaan pada PT. Nagabhuana Anekapiranti. Skenario ini juga menghasilkan biaya yang lebih kecil ketika dibandingkan dengan metode pemesanan yang dilakukan perusahaan dalam periode yang sama, selisih sebesar Rp. 73.653.450,84.

6.2. Saran

Untuk penelitian selanjutnya dapat meneliti untuk jenis kayu yang berbeda.

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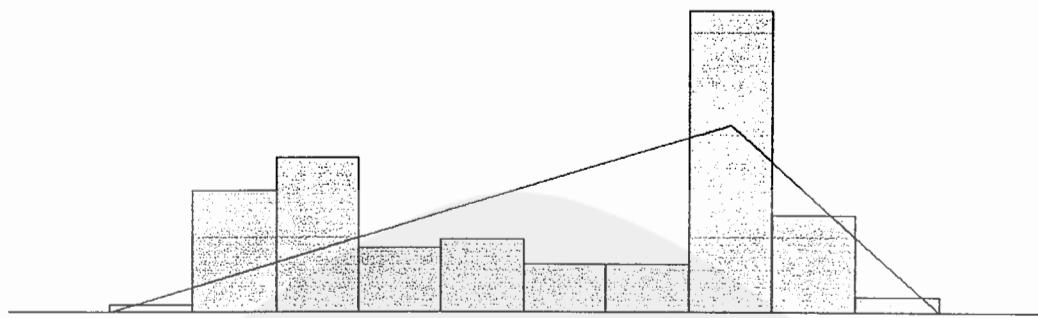
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								9.8776
jumlah								113.5741
januari	29	desember	2005	17.5	6	januari	2006	7.7113
								10.5856
	6	januari	2006	25	12	januari	2006	8.3371
					13	januari	2006	10.8763
								10.6989
	13	januari	2006	25	18	januari	2006	8.4417
								11.2013
					19	januari	2006	8.9811
	19	januari	2006	15	25	januari	2006	10.8707
					26	januari	2006	9.1231
jumlah								96.8271
februari	25	januari	2006	15	2	februari	2006	10.8411
					4	februari	2006	8.4481
	2	februari	2006	20	10	februari	2006	10.448
								10.2101
	13	februari	2006	40	20	februari	2006	10.8442
								10.5628
					25	februari	2006	10.6415
								10.8753
jumlah								82.8711
maret	24	februari	2006	40	1	maret	2006	10.7817
					2	maret	2006	8.1173
								10.4452
					6	maret	2006	10.6871
	4	maret	2006	30	10	maret	2006	11.1173
					14	maret	2006	9.7772
								10.6785
	18	maret	2006	15	23	maret	2006	8.1719
					25	maret	2006	9.4487
	27	maret	2006	27.5	31	maret	2006	10.8116
jumlah								100.0365
april					5	april	2006	8.3443
								9.1547
	7	april	2006	27.5	13	april	2006	8.1183
					17	april	2006	10.8184
					18	april	2006	10.8174
	17	april	2006	30	24	april	2006	11.2287
								10.4327
					26	april	2006	8.4681
jumlah								77.3826
mei	26	april	2006	15	2	mei	2006	10.7765
					6	mei	2006	7.9124
	5	mei	2006	15	11	mei	2006	10.8173

Lampiran 2. Jadwal Rencana Produksi

tanggal	a		b		c	
	pakai	waktu	pakai	waktu	pakai	waktu
2-Jan	13.67	5				
8-Jan			10.43	4		
12-Jan					4.2	2
15-Jan			8.14	3		
18-Jan	5.8	2				
22-Jan					5.6	2
24-Jan	8.42	3				
27-Jan			6.62	3		
31-Jan			8.14	3		
3-Feb	10.64	4				
8-Feb					4.2	2
10-Feb			12.84	5		
16-Feb					12.8	5
22-Feb	6.2	3				
26-Feb			9.84	4		
2-Mar			8.52	3		
6-Mar					5.6	2
8-Mar	14.82	6				
15-Mar	8.42	3				
20-Mar					6.8	3
23-Mar			6.82	3		
27-Mar	5.4	3				
30-Mar	10.28	4				

Lampiran 3.1. Hasil uji distribusi kapasitas truk



Distribution Summary

Distribution: Triangular
Expression: $TRIA(7.34, 10.7, 11.8)$
Square Error: 0.062828

Chi Square Test

Number of intervals = 7
Degrees of freedom = 5
Test Statistic = 64.2
Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.202
Corresponding p-value < 0.01

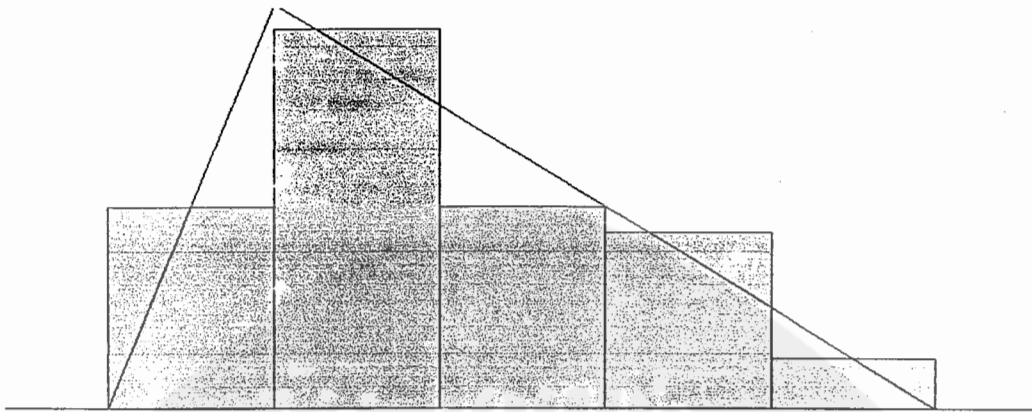
Data Summary

Number of Data Points = 115
Min Data Value = 7.71
Max Data Value = 11.4
Sample Mean = 9.69
Sample Std Dev = 1.15

Histogram Summary

Histogram Range = 7.34 to 11.8
Number of Intervals = 10

Lampiran 3.2. Hasil uji distribusi *lead time* 1



Distribution Summary

Distribution: Triangular
Expression: $\text{TRIA}(4.5, 5.5, 9.5)$
Square Error: 0.003750

Chi Square Test

Number of intervals = 4
Degrees of freedom = 2
Test Statistic = 0.763
Corresponding p-value = 0.692

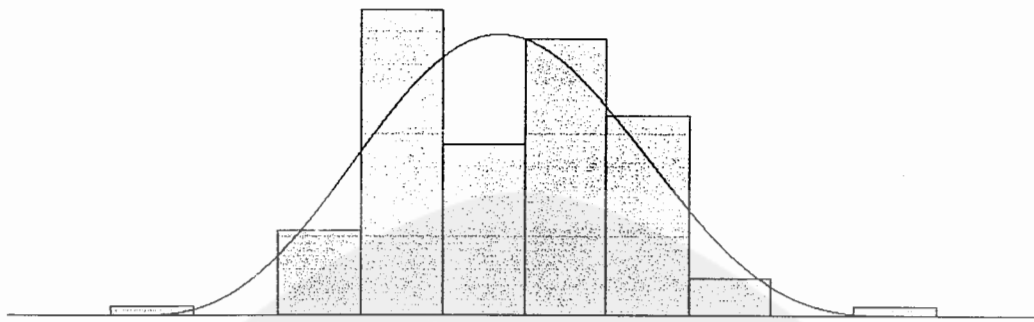
Data Summary

Number of Data Points = 40
Min Data Value = 5
Max Data Value = 9
Sample Mean = 6.5
Sample Std Dev = 1.15

Histogram Summary

Histogram Range = 4.5 to 9.5
Number of Intervals = 5

Lampiran 3.3. Hasil uji distribusi prosentase belah jenis A



Distribution Summary

Distribution: Beta
Expression: $23 + 15 * \text{BETA}(4.98, 5.51)$
Square Error: 0.019646

Chi Square Test

Number of intervals = 5
Degrees of freedom = 2
Test Statistic = 11.1
Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.0792
Corresponding p-value > 0.15

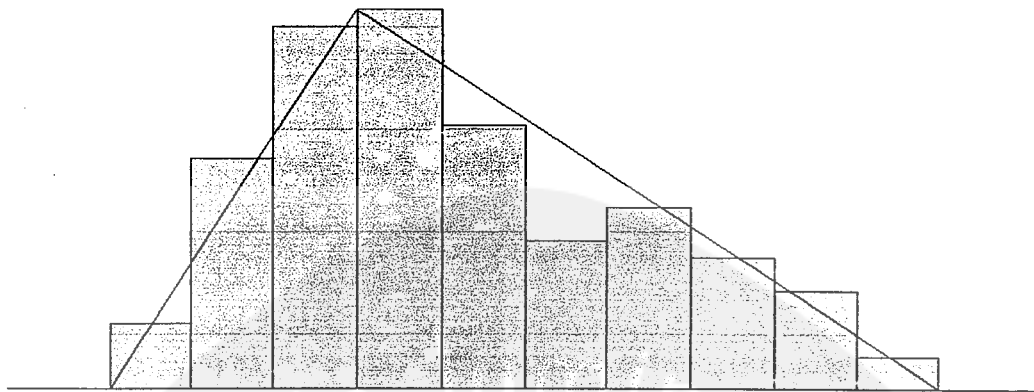
Data Summary

Number of Data Points = 115
Min Data Value = 23.1
Max Data Value = 37.6
Sample Mean = 30.1
Sample Std Dev = 2.21

Histogram Summary

Histogram Range = 23 to 38
Number of Intervals = 10

Lampiran 3.4. Hasil uji distribusi prosentase belah jenis B



Distribution Summary

Distribution: Triangular
Expression: $TRIA(25.2, 28.1, 34.9)$
Square Error: 0.004163

Chi Square Test

Number of intervals = 7
Degrees of freedom = 5
Test Statistic = 3.61
Corresponding p-value = 0.61

Kolmogorov-Smirnov Test

Test Statistic = 0.0968
Corresponding p-value > 0.15

Data Summary

Number of Data Points = 115
Min Data Value = 26
Max Data Value = 34.1
Sample Mean = 29.4
Sample Std Dev = 1.93

Histogram Summary

Histogram Range = 25.2 to 34.9
Number of Intervals = 10

Lampiran 3.5. Hasil uji distribusi prosentase belah jenis C



Distribution Summary

Distribution: Weibull
Expression: $18 + WEIB(1.68, 1.06)$
Square Error: 0.054415

Chi Square Test

Number of intervals = 6
Degrees of freedom = 3
Test Statistic = 30.3
Corresponding p-value < 0.005

Kolmogorov-Smirnov Test

Test Statistic = 0.196
Corresponding p-value < 0.01

Data Summary

Number of Data Points = 115
Min Data Value = 18
Max Data Value = 23
Sample Mean = 19.6
Sample Std Dev = 1.28

Histogram Summary

Histogram Range = 18 to 23.5
Number of Intervals = 10

Lampiran 4. Prosentase hasil belah log

jumlah datang	a		b		c	
10.8411	3.47915	0.320922231	3.03508	0.279960521	1.95398	0.180238168
10.8173	3.56673	0.329724608	2.81298	0.260044558	2.05287	0.189776562
8.6616	2.43863	0.28154498	2.68596	0.310099751	1.7232	0.198947077
10.7588	3.23764	0.300929472	2.90876	0.270361007	2.1176	0.196824925
9.1883	2.38996	0.260109052	2.94256	0.320250754	1.8366	0.199884636
8.5617	2.68413	0.313504327	2.39276	0.279472535	1.7234	0.2012918
9.1783	2.76649	0.301416384	2.66707	0.290584313	1.8366	0.200102415
10.6681	3.09974	0.290561581	3.30111	0.309437482	2.02939	0.19022975
8.3225	2.33403	0.280448183	2.662	0.319855813	1.68275	0.202192851
11.3481	3.61392	0.318460359	3.17468	0.27975432	2.15139	0.189581516
8.8842	2.39834	0.269955652	3.02628	0.340636186	1.68998	0.190223093
0	0	0	0	0	0	0
9.1168	3.08544	0.338434538	2.37368	0.260363285	1.73192	0.189970165
8.1411	2.27508	0.279456093	2.52741	0.310450676	1.6222	0.199260542
10.4416	3.34312	0.320173154	2.93648	0.28122893	2.0832	0.199509654
9.8932	2.77096	0.280087333	2.9796	0.301176566	2.07572	0.209812801
11.3861	3.81274	0.33485917	3.04247	0.267209141	2.14498	0.188385839
8.8411	2.56399	0.290008031	2.6233	0.296716472	1.67809	0.189805567
9.3166	2.15482	0.231288238	2.91312	0.312680592	1.8632	0.19998712
10.6875	3.52875	0.330175439	2.925	0.273684211	2.03625	0.190526316
10.8312	3.46984	0.320356009	3.11048	0.287177783	1.99616	0.184297215
8.4883	2.71656	0.320035814	2.41607	0.284635322	1.62894	0.19190415
0	0	0	0	0	0	0
11.1661	3.68813	0.33029706	3.12608	0.27996167	2.12559	0.190361003
9.0135	2.97455	0.33001054	2.61915	0.290580795	1.6243	0.180207467
9.1683	2.93856	0.320513072	2.47441	0.269887547	1.8366	0.20032067
10.2166	3.29312	0.322330325	2.75882	0.270033083	1.94154	0.190037732
11.0113	3.41503	0.310138676	3.08164	0.279861597	2.09147	0.189938518
11.1177	3.55664	0.319907895	3.01779	0.271440136	2.2254	0.200167301
8.3223	2.57913	0.309905915	2.24021	0.269181596	1.74683	0.209897504
8.1664	2.24928	0.275431034	2.4992	0.306034483	1.79608	0.219935345
7.9857	2.45567	0.307508421	2.15639	0.270031431	1.67997	0.21037229
0	0	0	0	0	0	0
8.8882	2.57578	0.289797709	2.39814	0.26981166	1.95404	0.219846538
8.4113	2.35164	0.27958104	2.61616	0.311029211	1.61034	0.191449598
10.4461	3.34752	0.320456438	3.1383	0.300427911	1.89376	0.181288711
10.9813	3.73642	0.340252976	2.96951	0.27041516	1.99634	0.181794505
8.7812	2.56548	0.29215597	2.54548	0.289878377	1.84052	0.209597777
10.6885	3.26455	0.305426393	2.9978	0.280469664	2.3547	0.220302194
8.3386	2.34808	0.281591634	2.66352	0.319420526	1.58334	0.189880795
10.4213	3.23603	0.31052076	3.1239	0.299761066	1.87834	0.180240469
9.5521	2.59067	0.271214707	3.15193	0.329972467	1.9142	0.200395725
8.3228	2.24156	0.26932763	2.4984	0.300187437	1.74788	0.210011054

8.8651	2.50879	0.282996244	2.86832	0.323551906	1.59718	0.180164916
9.8776	3.10832	0.314683729	2.66952	0.270259982	1.9752	0.199967603
0	0	0	0	0	0	0
7.7113	2.47616	0.321107984	2.23277	0.289545213	1.45147	0.188226369
10.5856	3.49248	0.329927449	2.96368	0.279972793	1.99408	0.188376663
8.3371	2.33488	0.280059013	2.75243	0.330142376	1.50678	0.180731909
10.8763	3.37153	0.309988691	3.15127	0.289737319	2.06497	0.189859603
10.6989	3.28967	0.307477404	2.99692	0.280114778	2.35758	0.220357233
8.4417	2.70344	0.320248291	2.19842	0.260423848	1.77757	0.210570146
11.2013	3.13364	0.279756814	3.13364	0.279756814	2.46286	0.219872693
8.9811	2.69733	0.300334035	2.78141	0.309695917	1.71598	0.191065682
10.8707	3.12503	0.287472748	3.47624	0.319780695	1.95726	0.180049123
9.1231	2.73933	0.300263068	2.7393	0.30025978	1.74158	0.190897831
0	0	0	0	0	0	0
10.8411	3.25733	0.300461208	3.14919	0.290486205	2.05809	0.189841437
8.4481	2.36468	0.279906725	2.70392	0.320062499	1.6862	0.199595175
10.448	3.92992	0.376140888	3.0292	0.289931087	2.086	0.199655436
10.2101	2.85828	0.279946328	3.47434	0.34028462	1.83818	0.180035455
10.8442	3.03376	0.279758765	3.14818	0.290310027	2.27282	0.209588536
10.5628	3.48724	0.330143523	2.74328	0.25971144	2.00932	0.190226076
10.6415	3.29865	0.309979796	3.08035	0.289465771	2.02885	0.190654513
10.8753	3.22599	0.296634576	3.2659	0.300304359	1.99554	0.183492869
0	0	0	0	0	0	0
10.7817	3.29451	0.305564985	3.12693	0.290021982	2.1534	0.199727316
8.1173	2.27244	0.27995023	2.4359	0.300087468	1.70633	0.21020906
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8.1719	2.36851	0.289835901	2.61008	0.319396958	1.55661	0.190483241
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9.1547	2.83957	0.310176194	2.7441	0.299747671	1.67846	0.183344075
8.1183	2.59756	0.319963539	2.23124	0.274840792	1.6366	0.20159393
10.8184	3.09152	0.285764993	3.13336	0.289632478	2.48232	0.229453524
10.8174	3.08872	0.285532568	3.13046	0.289391166	2.37828	0.219856897
11.2287	3.03749	0.270511279	3.3681	0.299954581	2.35027	0.209309181
10.4327	3.54118	0.339430828	2.81829	0.27014004	1.98213	0.189992044
8.4681	2.70792	0.319778935	2.28387	0.269702767	1.60939	0.190053259
0	0	0	0	0	0	0
10.7765	3.12185	0.28969053	3.4448	0.319658516	2.04535	0.189797244
7.9124	2.13348	0.269637531	2.61092	0.329978262	1.52232	0.192396744
10.8173	3.46536	0.320353508	3.2419	0.299695858	1.99941	0.184834478

8.4165	2.77445	0.329644151	2.3562	0.279950098	1.59135	0.189075031
8.1128	2.75352	0.339404398	2.19456	0.270505867	1.46304	0.180337245
9.8447	2.85963	0.290474062	3.05857	0.31068189	1.87493	0.190450699
10.4492	3.23952	0.310025648	2.92776	0.280189871	2.19332	0.20990315
8.3216	2.43264	0.292328398	2.41264	0.289925014	1.83752	0.220813305
0	0	0	0	0	0	0
8.4357	2.65067	0.314220515	2.44353	0.289665351	1.60783	0.190598291
11.1135	3.22915	0.290561029	3.3305	0.299680569	2.11565	0.190367571
8.4871	2.29517	0.270430418	2.80743	0.330787902	1.6942	0.199620601
10.4811	3.45763	0.329891901	2.93708	0.280226312	1.98598	0.18948202
9.6814	2.9042	0.299977276	2.80306	0.289840312	1.9328	0.199640548
10.4763	3.08127	0.294118152	2.93364	0.280026345	2.40549	0.229612554
8.1362	2.28136	0.280396254	2.52222	0.309999754	1.54878	0.190356678
8.1331	2.27268	0.279435885	2.68923	0.330652519	1.46958	0.180691249
8.0117	2.56744	0.320461325	2.24276	0.279935594	1.56989	0.195949674
0	0	0	0	0	0	0
10.8887	3.35497	0.308114835	3.15723	0.289954724	2.06853	0.189970336
8.1141	2.56512	0.316131179	2.35089	0.28972899	1.46538	0.180596739
10.8477	3.03356	0.279650064	3.14833	0.290230187	2.38694	0.220041115
10.3811	2.80897	0.270585005	3.1133	0.299900781	2.38753	0.229988152
10.1339	2.93831	0.289948588	3.14509	0.310353368	1.92541	0.189996941
9.1132	2.91224	0.319562832	2.64828	0.290598253	1.64076	0.180042137
10.8167	3.33177	0.308020931	2.92509	0.270423512	2.1634	0.200005547
8.1009	2.26252	0.279292424	2.59288	0.320073078	1.53971	0.190066536
0	0	0	0	0	0	0
10.8317	3.2951	0.304208942	3.14193	0.290068041	2.1634	0.199728574
8.6773	2.69963	0.311114056	2.51417	0.289741048	1.64687	0.189790603
10.6547	3.40504	0.31958103	3.1941	0.299783194	1.91846	0.180057627
8.3147	2.57557	0.309761026	2.32116	0.279163409	1.6694	0.200776937
10.6763	2.98364	0.279463859	3.52179	0.329869899	2.02497	0.189669642
8.0373	2.25444	0.280497182	2.33817	0.290914859	1.76206	0.219235315
8.3341	2.33548	0.280231819	2.41889	0.290240098	1.91843	0.230190422
10.8117	3.15393	0.291714531	3.35627	0.310429442	1.99106	0.184157903
10.8766	3.37746	0.310525348	3.15214	0.289809315	2.06554	0.189906772
10.8416	3.36896	0.310743802	3.03648	0.280076741	2.05904	0.189920307
11.0024	3.30172	0.300090889	3.41744	0.310608594	1.98432	0.180353377
7.8167	2.59511	0.331995599	2.18676	0.279754884	1.48173	0.189559533

TABLE T.1

Critical points $t_{\nu, \gamma}$ for the t distribution with ν df, and z_{γ} for the standard normal distribution

$\gamma = P(T_{\nu} \leq t_{\nu, \gamma})$, where T_{ν} is a random variable having the t distribution with ν df; the last row, where $\nu = \infty$, gives the normal critical points satisfying $\gamma = P(Z \leq z_{\gamma})$, where Z is a standard normal random variable

ν	0.6000	0.7000	0.8000	0.9000	0.9333	0.9500	0.9600	0.9667	0.9750	0.9800	0.9833	0.9875	0.9900	0.9917	0.9938	0.9950
1	0.325	0.727	1.376	3.078	4.702	6.314	7.916	9.524	12.705	15.895	19.043	25.452	31.821	38.342	51.334	63.657
2	0.289	0.617	1.061	1.886	2.456	2.920	3.320	3.679	4.303	4.849	5.334	6.205	6.965	7.665	8.897	9.925
3	0.277	0.594	0.978	1.638	2.045	2.353	2.605	2.823	3.182	3.482	3.738	4.177	4.541	4.864	5.408	5.841
4	0.271	0.569	0.941	1.533	1.879	2.132	2.333	2.502	2.776	2.999	3.184	3.495	3.747	3.966	4.325	4.604
5	0.267	0.559	0.920	1.476	1.790	2.015	2.191	2.337	2.571	2.757	2.910	3.163	3.365	3.538	3.818	4.032
6	0.265	0.553	0.906	1.440	1.735	1.943	2.104	2.237	2.447	2.612	2.748	2.969	3.143	3.291	3.528	3.707
7	0.263	0.549	0.896	1.415	1.698	1.895	2.046	2.170	2.365	2.517	2.640	2.841	2.998	3.130	3.341	3.499
8	0.262	0.546	0.889	1.397	1.670	1.860	2.004	2.122	2.306	2.449	2.565	2.752	2.896	3.018	3.211	3.355
9	0.261	0.543	0.883	1.383	1.650	1.833	1.973	2.086	2.262	2.398	2.508	2.685	2.821	2.936	3.116	3.250
10	0.260	0.542	0.879	1.372	1.634	1.812	1.948	2.058	2.228	2.359	2.465	2.634	2.764	2.872	3.043	3.169
11	0.260	0.540	0.876	1.363	1.621	1.796	1.928	2.036	2.201	2.328	2.430	2.593	2.718	2.822	2.985	3.106
12	0.259	0.539	0.873	1.356	1.610	1.782	1.912	2.017	2.179	2.303	2.402	2.560	2.681	2.782	2.939	3.055
13	0.259	0.538	0.870	1.350	1.601	1.771	1.899	2.002	2.160	2.282	2.379	2.533	2.650	2.748	2.900	3.012
14	0.258	0.537	0.868	1.345	1.593	1.761	1.887	1.989	2.145	2.264	2.359	2.510	2.624	2.720	2.868	2.977
15	0.258	0.536	0.866	1.341	1.587	1.753	1.878	1.978	2.131	2.249	2.342	2.490	2.602	2.696	2.841	2.947
16	0.258	0.535	0.865	1.337	1.581	1.746	1.869	1.968	2.120	2.235	2.327	2.473	2.583	2.675	2.817	2.921
17	0.257	0.534	0.863	1.333	1.576	1.740	1.862	1.960	2.110	2.224	2.315	2.458	2.567	2.657	2.796	2.898
18	0.257	0.534	0.862	1.330	1.572	1.734	1.855	1.953	2.101	2.214	2.303	2.445	2.552	2.641	2.778	2.878
19	0.257	0.533	0.861	1.328	1.568	1.729	1.850	1.946	2.093	2.205	2.293	2.433	2.539	2.627	2.762	2.861
20	0.257	0.533	0.860	1.325	1.564	1.725	1.844	1.940	2.086	2.197	2.285	2.423	2.528	2.614	2.748	2.845
21	0.257	0.532	0.859	1.323	1.561	1.721	1.840	1.935	2.080	2.189	2.277	2.414	2.518	2.603	2.735	2.831
22	0.256	0.532	0.858	1.321	1.558	1.717	1.835	1.930	2.074	2.183	2.269	2.405	2.508	2.593	2.724	2.819
23	0.256	0.532	0.858	1.319	1.556	1.714	1.832	1.926	2.069	2.177	2.263	2.398	2.500	2.584	2.713	2.807
24	0.256	0.531	0.857	1.318	1.553	1.711	1.828	1.922	2.064	2.172	2.257	2.391	2.492	2.575	2.704	2.797
25	0.256	0.531	0.856	1.316	1.551	1.708	1.825	1.918	2.060	2.167	2.251	2.385	2.485	2.568	2.695	2.787
26	0.256	0.531	0.856	1.315	1.549	1.706	1.822	1.915	2.056	2.162	2.246	2.379	2.479	2.561	2.687	2.779
27	0.256	0.531	0.855	1.314	1.547	1.703	1.819	1.912	2.052	2.158	2.242	2.373	2.473	2.554	2.680	2.771
28	0.256	0.530	0.855	1.313	1.546	1.701	1.817	1.909	2.048	2.154	2.237	2.368	2.467	2.548	2.673	2.763
29	0.256	0.530	0.854	1.311	1.544	1.699	1.814	1.906	2.045	2.150	2.233	2.364	2.462	2.543	2.667	2.756
30	0.256	0.530	0.854	1.310	1.543	1.697	1.812	1.904	2.042	2.147	2.230	2.360	2.457	2.537	2.661	2.750
40	0.255	0.529	0.851	1.303	1.532	1.684	1.796	1.886	2.021	2.123	2.203	2.329	2.423	2.501	2.619	2.704
50	0.255	0.528	0.849	1.299	1.526	1.676	1.787	1.875	2.009	2.109	2.188	2.311	2.403	2.479	2.594	2.678
75	0.254	0.527	0.846	1.293	1.517	1.665	1.775	1.861	1.992	2.090	2.167	2.287	2.377	2.450	2.562	2.643
100	0.254	0.526	0.845	1.290	1.513	1.660	1.769	1.855	1.984	2.081	2.157	2.276	2.364	2.436	2.547	2.626
∞	0.253	0.524	0.842	1.282	1.501	1.645	1.751	1.834	1.960	2.054	2.127	2.241	2.326	2.395	2.501	2.576

Lampiran 6 : Foto – foto

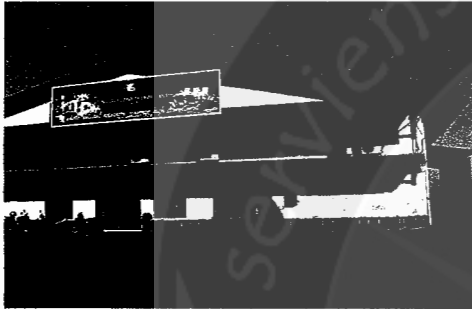


foto 1. PT. Nagabhuana Anekapiranti



foto 2. papan nama



foto 3. tempat parkir

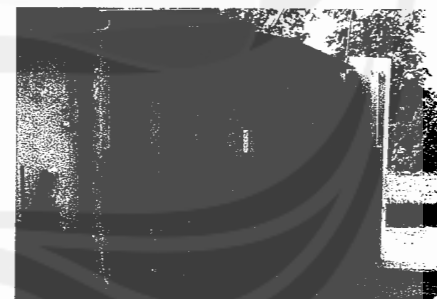


foto 4. pos satpam



foto 5. contoh produk (kursi)

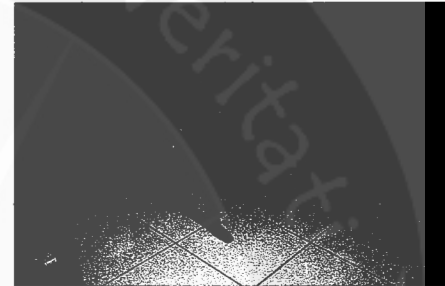


foto 6. contoh produk (meja)

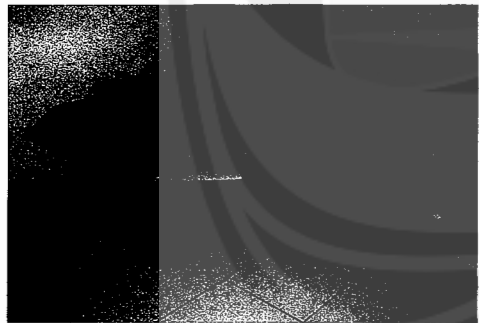


foto 7. contoh produk (meja)

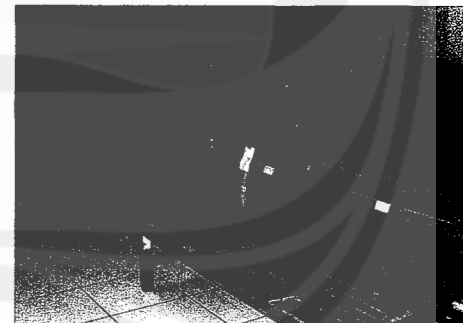


foto 8. contoh produk (meja dan kursi)

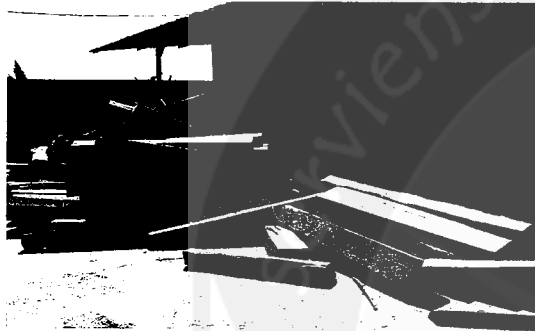


foto 9. log belah



foto 10. log belah



foto 11. sisa belah log

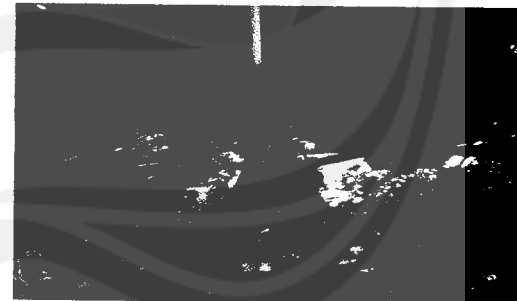


foto 12. kayu sisa



foto 13. tungku



foto 14. tumpukan kayu



foto 15. memasukkan dalam KD



foto 16. tumpukan dalam KD