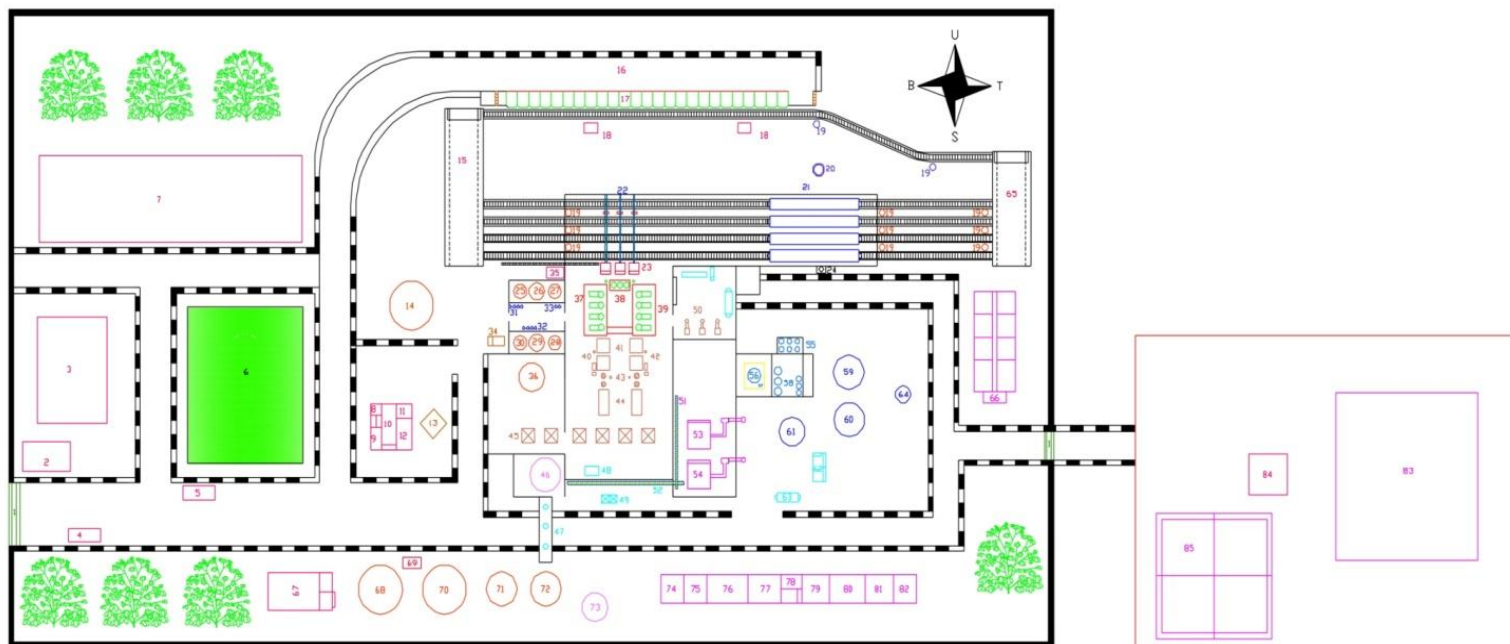


## DAFTAR PUSTAKA

- DE Garmo, E.Paul.dkk. 1995. *Ekonomi Teknik*, Versi Bahasa Indonesia, Jilid 1. Jakarta. Erlangga.
- Dyalim, B.H. 2010. Penentuan Umur Ekonomis Mesin Sheeter Dengan Metode Biaya Tahunan Rata – Rata di PTPN III Gunung Para Tebing Tinggi. Medan : USU. Skripsi.
- Ginting, B. 2009. Penentuan Umur Ekonomis Terhadap Digester Dengan Metode Biaya Tahunan Rata – Rata di PTPN IV Dolok Ilir. Medan : USU. Skripsi.
- <http://pasca.unhas.ac.id/jurnal/files/.pdf>  
PENENTUAN UMUR PEMAKAIAN PERALATAN TRANSFORMATOR  
DISTRIBUSI DENGAN METODE REPLACEMENT
- <http://jtriste.kharisma.ac.id/wp-content/uploads/2016/02/JTRISTE-Edisi-4-Rahmawati.pdf>  
Model Trend Untuk Peramalan Jumlah Penduduk
- Jalil Lubis, A. 2010. Penentuan Umur Ekonomis Boiler Dengan Metode Biaya Tahunan Rata – Rata Di PTPN III PKS KEBUN RAMBUTAN Tebing Tinggi. Medan : USU. Skripsi.
- L.Grant, E, dkk.1987. Dasar – dasar Ekonomi Teknik, Jilid 1. Jakarta : PT. BINA AKSARA.
- L.Grant, E, dkk. 1991. Dasar – dasar Ekonomi Teknik, jilid 2. Jakarta : PT. RINEKA CIPTA.
- Nasution Hakim, A. 2006. Manajemen Industri. Yogyakarta : C.V ANDI OFFSET, pp : 235.
- Raharjo, F. 2007. Ekonomi Teknik (Analisis Pengambilan Keputusan). Yogyakarta : C.V ANDI OFFSET, pp : 99, 71, 89.

# LAMPIRAN 1



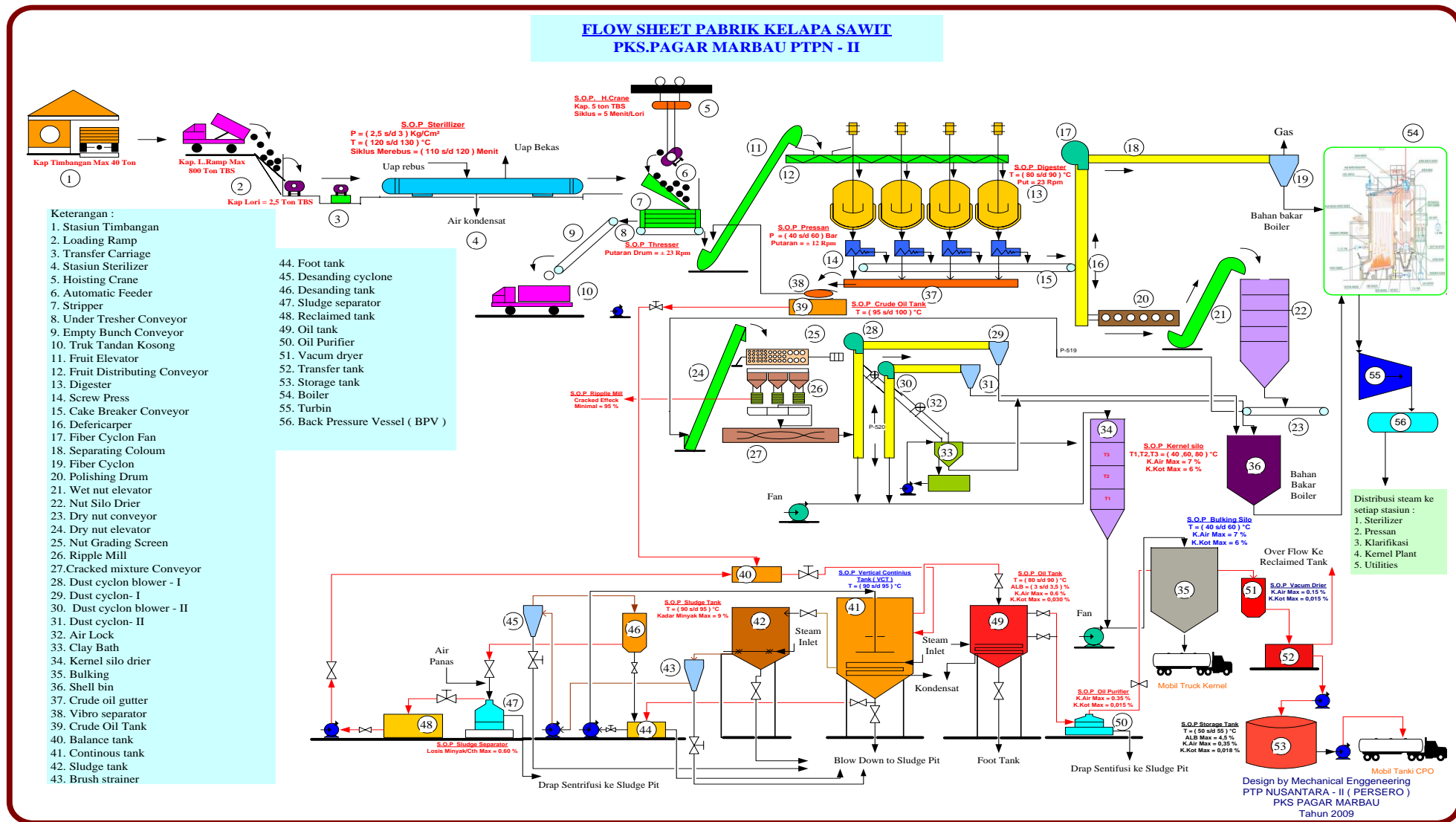
No	Legenda
1	Peta Lokasi
2	Peta Sajian
3	Kantor Pengawasan
4	Tempungan 1
5	Tempungan 2
6	Kantor Limas
7	Reception Staff
8	Publikasi
9	Kantor Manajer
10	Laboratorium
11	Kantor Asisten Laboratorium
12	Laboratorium
13	Musikola
14	Meubany Room
15	Penjualan Sampah
16	Plantation Loading Ramp
17	Plantation Loading Ramp
18	Control Hatch Loading Ramp
19	Gate
20	Blow Down Chamber
21	Blow Down
22	Heating Crane
23	Truck
24	Kantor Komersial
25	CR Tank F.I.
26	Cracking Building Tank F.I.
27	Storage Tank F.I.
28	Storage Tank F.I.
29	Cracking Building Tank F.I.
30	CR Tank F.I.
31	CR Tank F.I.
32	CR Tank F.I.
33	Low Speed Storage Processor
34	Storage Processor
35	Storage Tank
36	Cracking Building Tank F.I.
37	Vertical Condenser Tank
38	Distillation F.I.
39	Crack F.I.
40	Distillation F.I.
41	Refr. Unit
42	Distillation F.I.
43	Crack F.I.
44	Crack F.I.
45	Crack F.I.
46	Kantor Building Storage 1
47	CPK Storage Tank
48	City Bath
49	Water Storage
50	Kitchen Mess
51	General Compressor 1 (Limbak)
52	General Compressor 2 (Dorongan)
53	Water Treatment
54	Water Treatment 2
55	Water Treatment
56	Water Treatment
57	Water Treatment
58	Water Treatment
59	Water Treatment
60	Water Treatment
61	Water Treatment
62	Water Treatment
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84	Water Treatment
85	Water Treatment

TATA LETAK PABRIK PENGOLAHAN  
KELAPA SAWIT PKS PAGAR MARBAU  
PTPN 2 ( PERSERO )

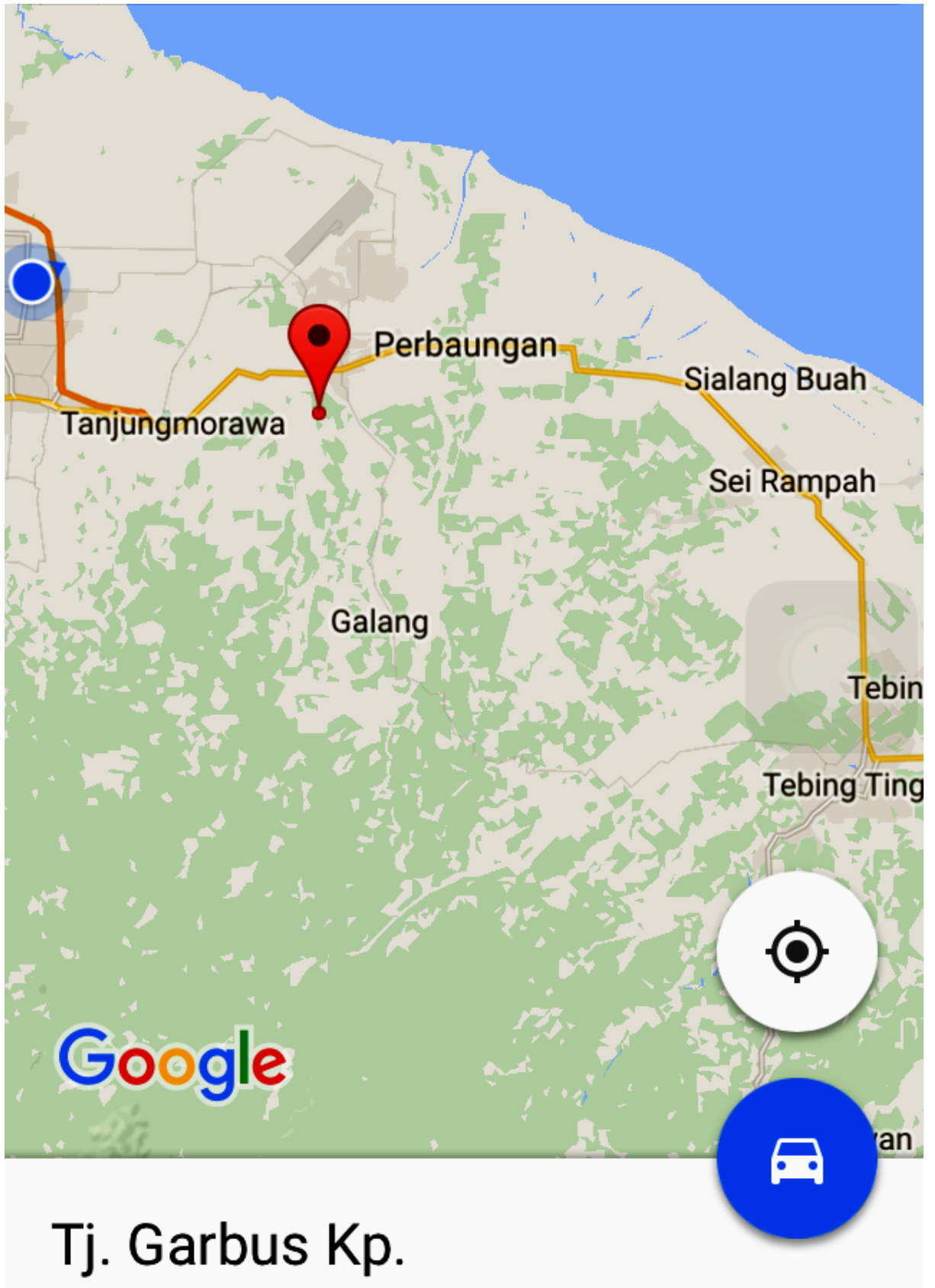
LAYOUT

Skala 1 : 200	NAMA	TANGGAL	TTD
Digambar	LABORATORIUM PKS.PM	15 Juli 2007	
Direncanakan	LABORATORIUM PKS.PM	26 Jun 2007	
Dihitung	LABORATORIUM PKS.PM	26 Jun 2007	
Diperiksa	ASISTEN LAB.PKS.PM		
Disetujui	MANAGER PKS.PM		

## LAMPIRAN 2



LAMPIRAN 3



## LAMPIRAN 4

**Tabel H-11**  
**6 % Faktor Bunga Majemuk**

n	Pembayaran Tunggal		Seri Kesamaan				n
	Faktor Jumlah Majemuk	Faktor Nilai Sekarang	Faktor Penyimpanan dana	Faktor Pengembalian Modal	Faktor Jumlah Majemuk	Faktor Nilai Sekarang	
	F/P	P/F	A/F	A/P	F/A	P/A	
1	1,0600	0,9434	1,00000	1,06000	1,000	0,943	1
2	1,1236	0,8900	0,48544	0,54544	2,060	1,833	2
3	1,1910	0,8396	0,31411	0,37411	3,184	2,673	3
4	1,2625	0,7921	0,22859	0,28859	4,375	3,465	4
5	1,3382	0,7473	0,17740	0,23740	5,637	4,212	5
6	1,4185	0,7050	0,14336	0,20336	6,975	4,917	6
7	1,5036	0,6651	0,11914	0,17914	8,394	5,582	7
8	1,5938	0,6274	0,10104	0,16104	9,897	6,210	8
9	1,6895	0,5919	0,08702	0,14702	11,491	6,802	9
10	1,7908	0,5584	0,07587	0,13587	13,181	7,360	10
11	1,8983	0,5268	0,06679	0,12679	14,972	7,887	11
12	2,0122	0,4970	0,05928	0,11928	16,870	8,384	12
13	2,1329	0,4688	0,05296	0,11296	18,882	8,853	13
14	2,2609	0,4423	0,04758	0,10758	21,015	9,295	14
15	2,3966	0,4173	0,04296	0,10296	23,276	9,712	15
16	2,5404	0,3936	0,03895	0,09895	25,673	10,106	16
17	2,6928	0,3714	0,03544	0,09544	28,213	10,477	17
18	2,8543	0,3503	0,03236	0,09236	30,906	10,828	18
19	3,0256	0,3305	0,02962	0,08962	33,760	11,158	19
20	3,2071	0,3118	0,02718	0,08718	36,786	11,470	20
21	3,3996	0,2942	0,02500	0,08500	39,993	11,764	21
22	3,6035	0,2775	0,02305	0,08305	43,392	12,042	22
23	3,8197	0,2618	0,02128	0,08128	46,996	12,303	23
24	4,0489	0,2470	0,01968	0,07968	50,816	12,550	24
25	4,2919	0,2330	0,01823	0,07823	54,865	12,783	25
26	4,5494	0,2198	0,01690	0,07690	59,156	13,003	26
27	4,8223	0,2074	0,01570	0,07570	63,706	13,211	27
28	5,1117	0,1956	0,01459	0,07459	68,528	13,406	28
29	5,4184	0,1846	0,01358	0,07358	73,640	13,591	29
30	5,7435	0,1741	0,01265	0,07265	79,058	13,765	30
31	6,0881	0,1643	0,01179	0,07179	84,802	13,929	31
32	6,4534	0,1550	0,01100	0,07100	90,890	14,084	32
33	6,8406	0,1462	0,01027	0,07027	97,343	14,230	33
34	7,2510	0,1379	0,00960	0,06960	104,184	14,368	34
35	7,6861	0,1301	0,00897	0,06897	111,435	14,498	35
40	10,2857	0,0972	0,00646	0,06646	154,762	15,046	40
45	13,7646	0,0727	0,00470	0,06470	212,744	15,456	45
50	18,4202	0,0543	0,00344	0,06344	290,336	15,762	50
55	24,6503	0,0406	0,00254	0,06254	394,172	15,991	55
60	32,9877	0,0303	0,00188	0,06188	533,128	16,161	60
65	44,1450	0,0227	0,00139	0,06139	719,083	16,289	65
70	59,0759	0,0169	0,00103	0,06103	967,932	16,385	70
75	79,0589	0,0126	0,00077	0,06077	1300,949	16,456	75
80	105,7960	0,0095	0,00057	0,06057	1746,600	16,509	80
85	141,5789	0,0071	0,00043	0,06043	2342,982	16,549	85
90	189,4645	0,0053	0,00032	0,06032	3141,075	16,579	90
95	253,5463	0,0039	0,00024	0,06024	4209,104	16,601	95
100	339,3021	0,0029	0,00018	0,06018	5638,368	16,618	100

**Tabel H-12**  
**7 % Faktor Bunga Majemuk**

n	Pembayaran Tunggal		Seri Kesamaan				n
	Faktor Jumlah Majemuk	Faktor Nilai Sekarang	Faktor Penyimpanan dana	Faktor Pengembalian Modal	Faktor Jumlah Majemuk	Faktor Nilai Sekarang	
	F/P	P/F	A/F	A/P	F/A	P/A	
1	1,0700	0,9346	1,00000	1,07000	1,000	0,935	1
2	1,1449	0,8734	0,48309	0,55309	2,070	1,808	2
3	1,2250	0,8163	0,31105	0,38105	3,215	2,624	3
4	1,3108	0,7629	0,22523	0,29523	4,440	3,387	4
5	1,4026	0,7130	0,17389	0,24389	5,751	4,100	5
6	1,5007	0,6663	0,13980	0,20980	7,153	4,767	6
7	1,6058	0,6227	0,11555	0,18555	8,654	5,389	7
8	1,7182	0,5820	0,09747	0,16747	10,260	5,971	8
9	1,8385	0,5439	0,08349	0,15349	11,978	6,515	9
10	1,9672	0,5083	0,07238	0,14238	13,816	7,024	10
11	2,1049	0,4751	0,06336	0,13336	15,784	7,499	11
12	2,2522	0,4440	0,05590	0,12590	17,888	7,943	12
13	2,4098	0,4150	0,04965	0,11965	20,141	8,358	13
14	2,5785	0,3878	0,04434	0,11434	22,550	8,745	14
15	2,7590	0,3624	0,03979	0,10979	25,129	9,108	15
16	2,9522	0,3387	0,03586	0,10586	27,888	9,447	16
17	3,1588	0,3166	0,03243	0,10243	30,840	9,763	17
18	3,3799	0,2959	0,02941	0,09941	33,999	10,059	18
19	3,6165	0,2765	0,02675	0,09675	37,379	10,336	19
20	3,8697	0,2584	0,02439	0,09439	40,995	10,594	20
21	4,1406	0,2415	0,02229	0,09229	44,865	10,836	21
22	4,4304	0,2257	0,02041	0,09041	49,006	11,061	22
23	4,7405	0,2109	0,01871	0,08871	53,436	11,272	23
24	5,0724	0,1971	0,01719	0,08719	58,177	11,469	24
25	5,4274	0,1842	0,01581	0,08581	63,249	11,654	25
26	5,8074	0,1722	0,01456	0,08456	68,676	11,826	26
27	6,2139	0,1609	0,01343	0,08343	74,484	11,987	27
28	6,6488	0,1504	0,01239	0,08239	80,698	12,137	28
29	7,1143	0,1406	0,01145	0,08145	87,347	12,278	29
30	7,6123	0,1314	0,01059	0,08059	94,461	12,409	30
31	8,1451	0,1228	0,00980	0,07980	102,073	12,532	31
32	8,7153	0,1147	0,00907	0,07907	110,218	12,647	32
33	9,3253	0,1072	0,00841	0,07841	118,933	12,754	33
34	9,9781	0,1002	0,00780	0,07780	128,259	12,854	34
35	10,6766	0,0937	0,00723	0,07723	138,237	12,948	35
40	14,9745	0,0668	0,00501	0,07501	199,635	13,332	40
45	21,0025	0,0476	0,00350	0,07350	285,749	13,606	45
50	29,4570	0,0339	0,00246	0,07246	406,529	13,801	50
55	41,3150	0,0242	0,00174	0,07174	575,929	13,940	55
60	57,9464	0,0173	0,00123	0,07123	813,520	14,039	60
65	81,2729	0,0123	0,00087	0,07087	1146,755	14,110	65
70	113,9894	0,0088	0,00062	0,07062	1614,134	14,160	70
75	159,8760	0,0063	0,00044	0,07044	2269,657	14,196	75
80	224,2344	0,0045	0,00031	0,07031	3189,063	14,222	80
85	314,5003	0,0032	0,00022	0,07022	4478,576	14,240	85
90	441,1030	0,0023	0,00016	0,07016	6287,185	14,253	90
95	618,6697	0,0016	0,00011	0,07011	8823,854	14,263	95
100	867,7163	0,0012	0,00008	0,07008	12381,662	14,269	100

Mastered by: Hendra Taufik, ST, M.Sc.