

BAB V

KESIMPULAN dan SARAN

5.1 Kesimpulan

Berdasarkan analisis data dari penelitian yang telah dilakukan, dapat diambil kesimpulan sebagai berikut:

1. Percepatan durasi dapat dilakukan pada pelaksanaan Proyek Pembangunan Hotel Horison Ulitma Riss
2. Percepatan waktu pelaksanaan proyek maksimal adalah 20 hari dengan total biaya Rp. 20,683,590,698. Dengan penambahan biaya sebesar Rp. 341,090,010
3. Durasi waktu optimal untuk menyelesaikan proyek Hotel Horison Ultima Riss adalah 223 hari dengan total biaya Rp. 20,325,568,080

5.2 Saran

Beberapa saran yang perlu diperhatikan untuk penelitian selanjutnya dengan metode yang sama pada penelitian ini antara lain:

1. Dalam pemilihan data historis, sebaiknya data tersebut memiliki tipikal ketinggian bangunan dan material yang sama. Hal ini bertujuan agar data hasil analisis menjadi lebih akurat

2. Pemilihan data historis juga sebaiknya memiliki data durasi tiap item pekerjaan yang akurat.
3. Kenaikan harga juga harus menjadi pertimbangan utama, karena terkadang data historis pada tahun yang sama memiliki tingkat perbedaan harga yang signifikan.



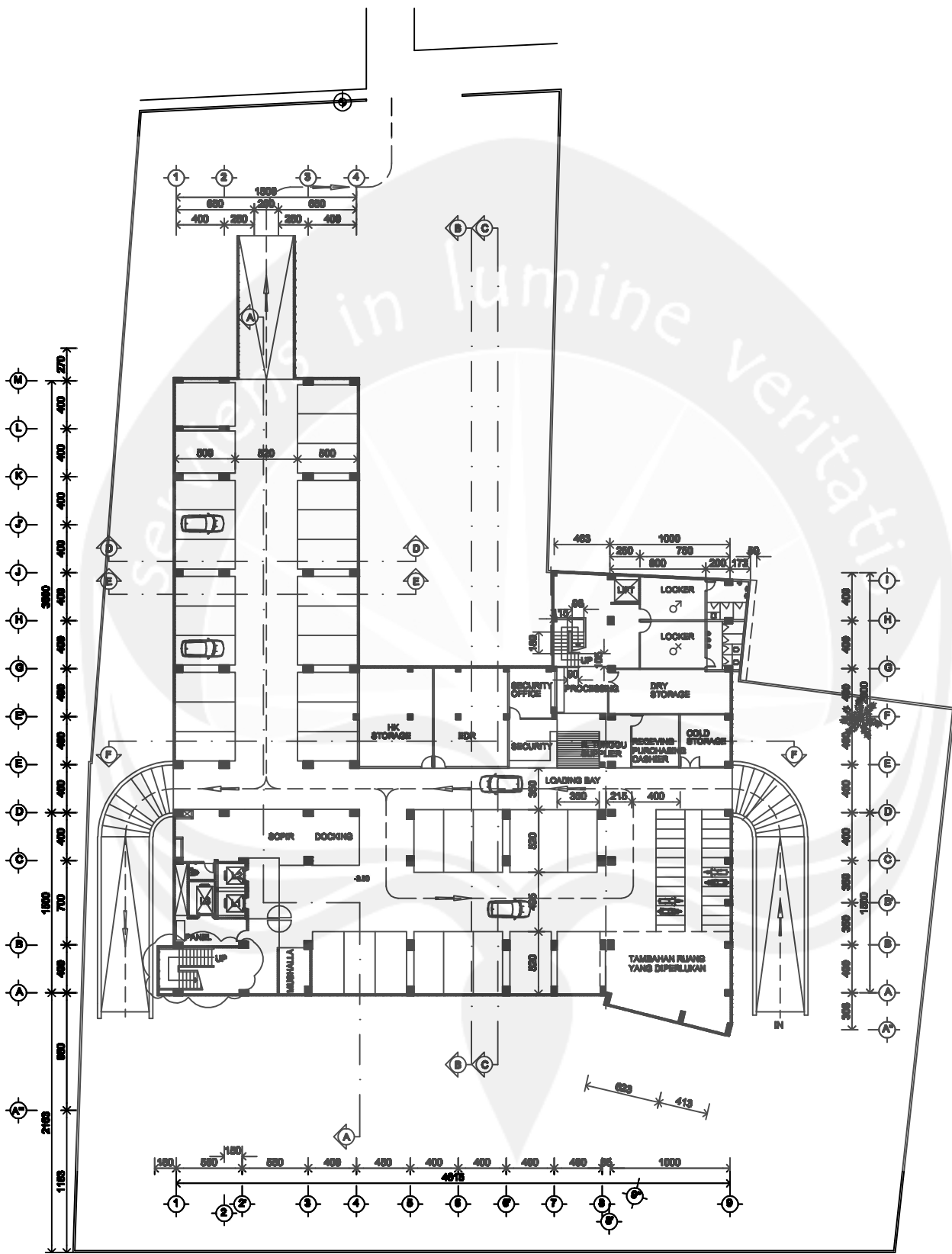
DAFTAR PUSTAKA

- Ady, C. Wong, *Optimasi Biaya Pelaksanaan Gedung Tahap I Universitas Sanata Dharma*. UAJY. Yogyakarta .2001
- Ahuja, V., et. al., *Project Scheduling and Monitoring: Current Research Status. Journal of Construction Innovation*. vol. 4 :19-31.
- Anonymous, *Primavera Project Planner: Planning and Control Guide*. http://docs.oracle.com/cd/E20557_01/documentation/P3/P330proc.pdf (Diakses 12 Maret 2013)
- Anonymous, *Primavera Project Planner: Reference Manual*. http://docs.oracle.com/cd/E20557_01/documentation/P3/P330ref.pdf (Diakses 12 Maret 2013)
- Danniyanti, Eka, *Optimalisasi Pelaksanaan Proyek Dengan Metode PERT Dengan CPM*.UNDIP.Semarang.2010
- Ervianto, W. I., *Manajemen Proyek Konstruksi*, CV Andi Offset, Yogyakarta.2002
- Handoko, T.H, *Dasar-dasar Manajemen Produksi Dan Operasi*, Edisi Pertama. BPFE : Yogyakarta.1999.
- Hartawan, Harry. N.D, “*Analisis Keterlibatan Manajemen Proyek dalam Proses Perencanaan dan Pengendalian Proyek Selama Pelaksanaan Konstruksi*”. <http://www.digilib.ui.ac.id/opac/themes/libri2/detail.jsp?id=80787>. www.google.com. (Diakses 12 Januari 2013)
- Satiawan,B., *Memanfaatkan Primavera Project Planner dalam Mengelola Proyek Konstruksi*, CV Andi Offset, Yogyakarta.2004
- Soemardi, B. W., et. al., *Studi Praktek Estimasi Biaya Tidak Langsung pada Proyek Konstruksi*, Jurnal KoNTekS 4, Bali. 2010
- Yudakusumah, T., W. I., *Optimasi Waktu dan Biaya pada Jaringan Kerja Critical Path Method (CPM) dan Precedence Diagram Method (PDM)*.UNDIP.Semarang.2008

Lampiran 1

**Gambar Rencana Proyek
Pembangunan Hotel Horison Riss**



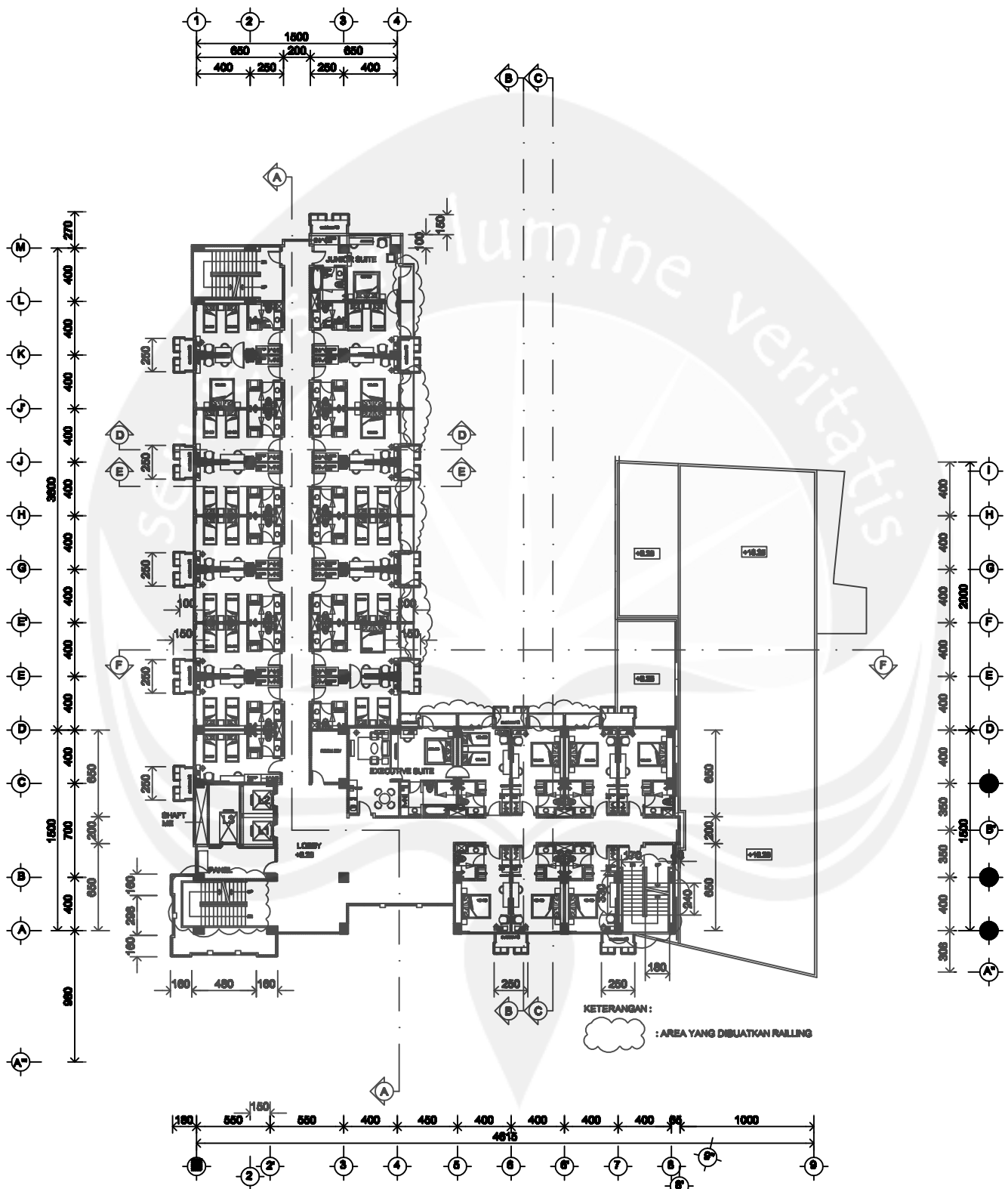


JALAN GOWONGAN KEDUL

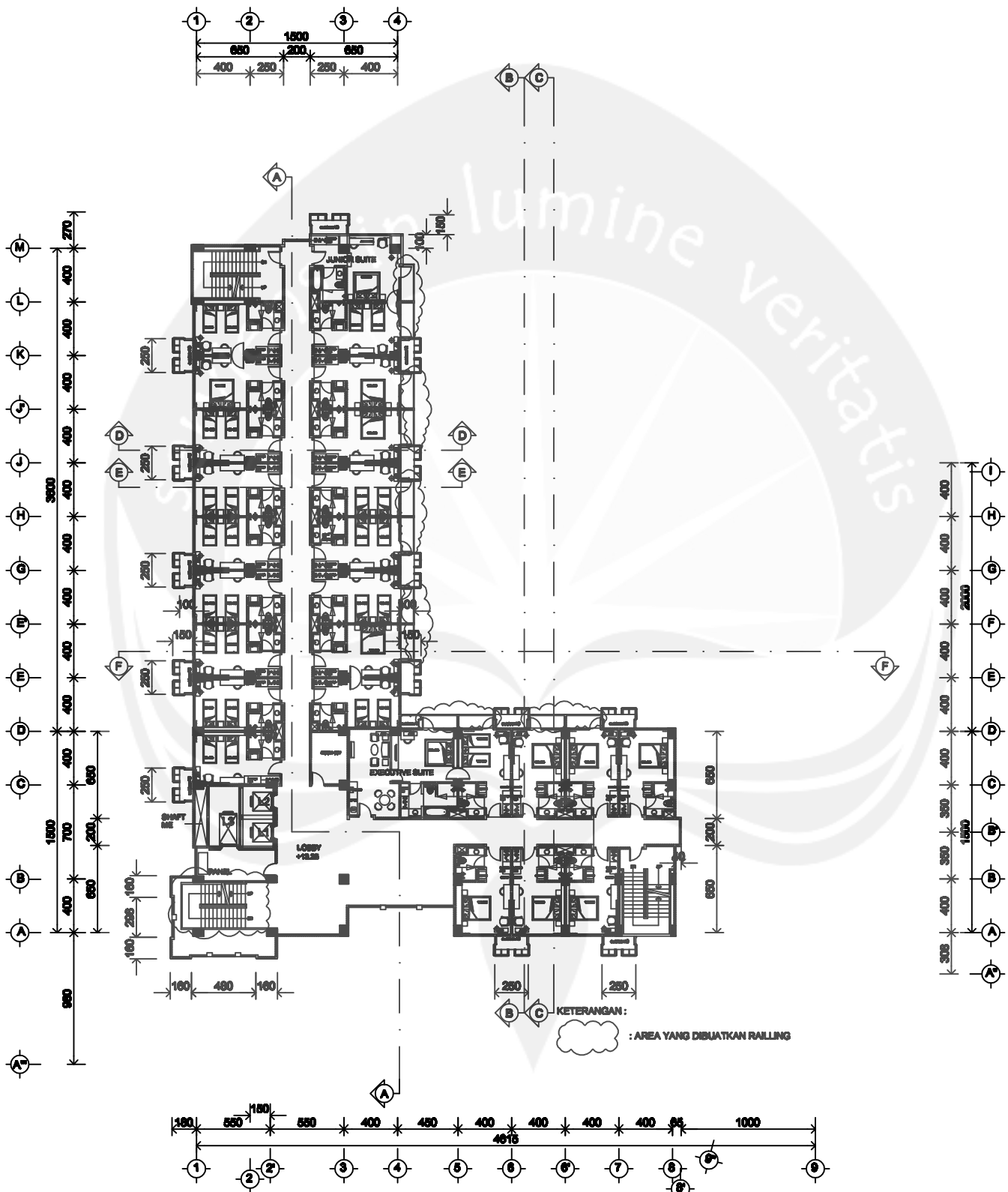
KETERANGAN:

: AREA YANG DIPERLUKAN RAILING

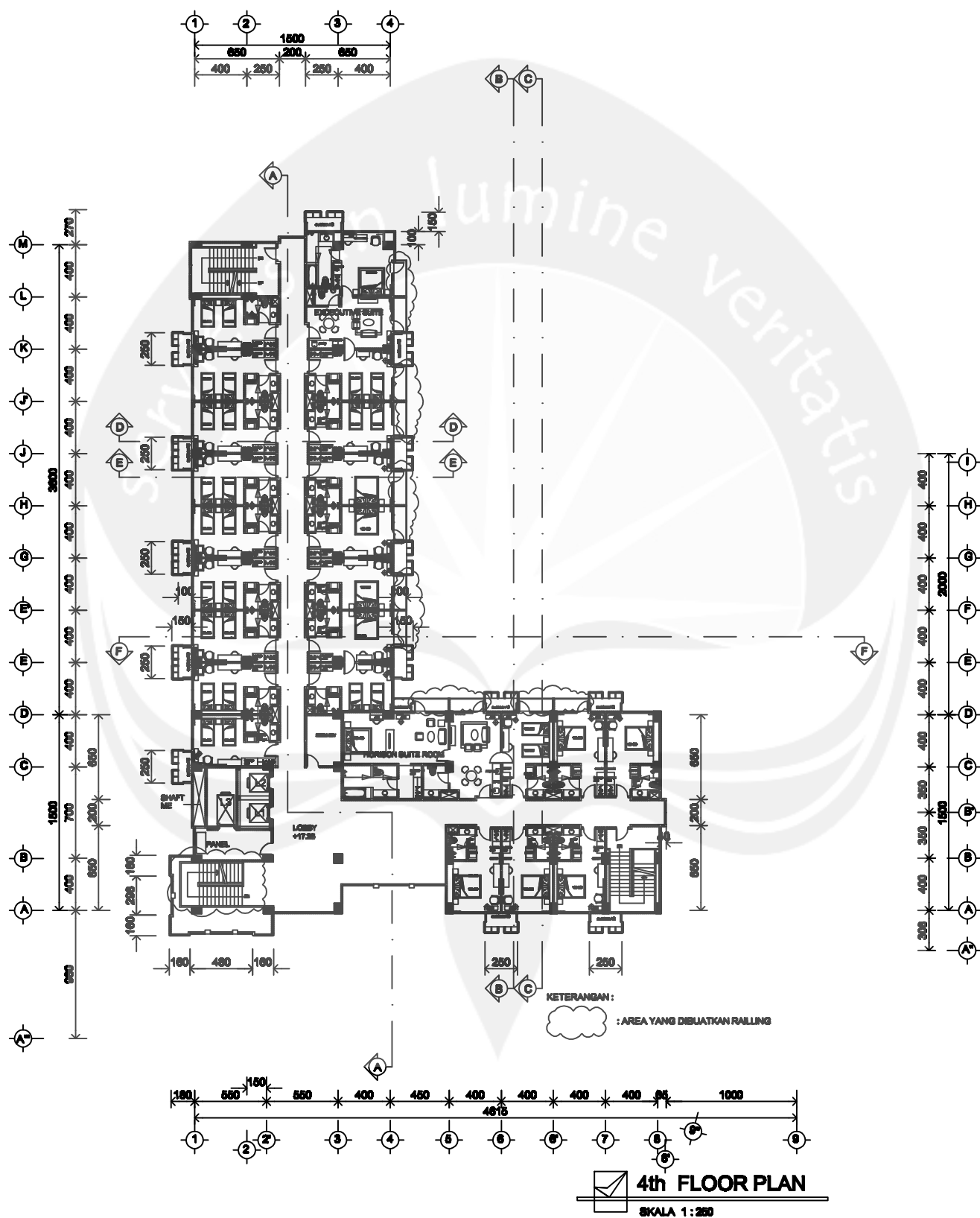
BASEMENT
SKALA 1:400

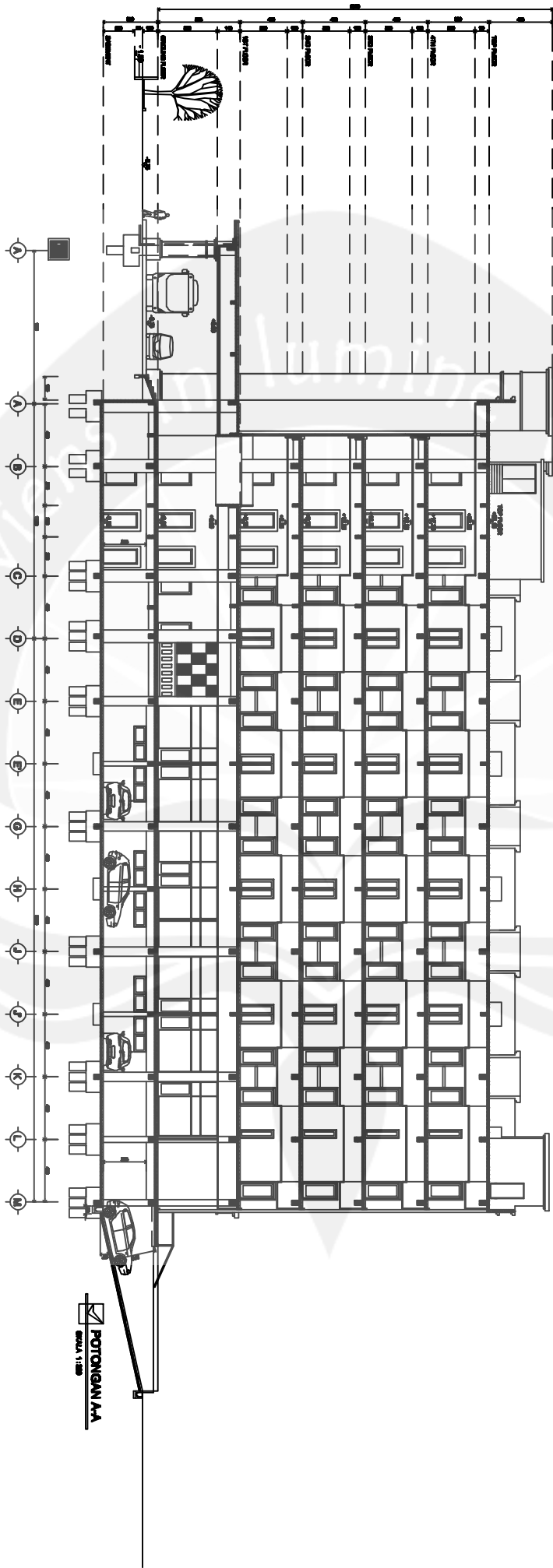


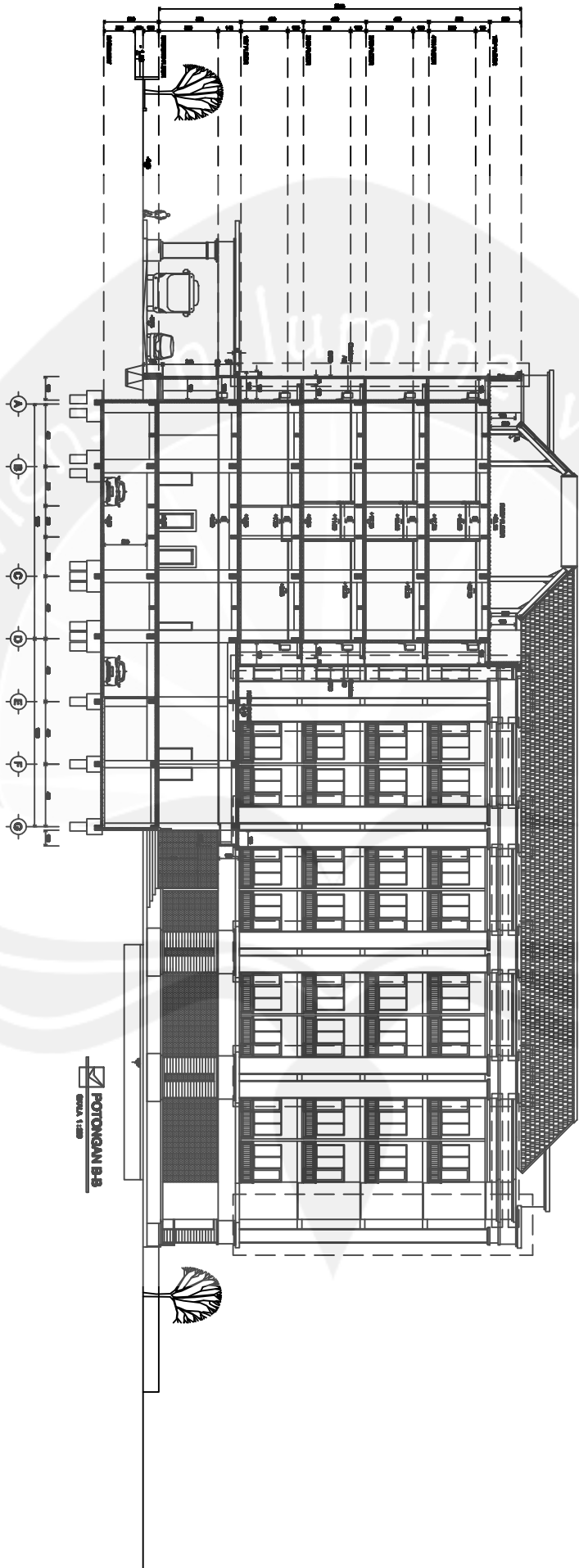
2nd FLOOR PLAN
 SKALA 1 : 200



3rd FLOOR PLAN
SKALA 1 : 250

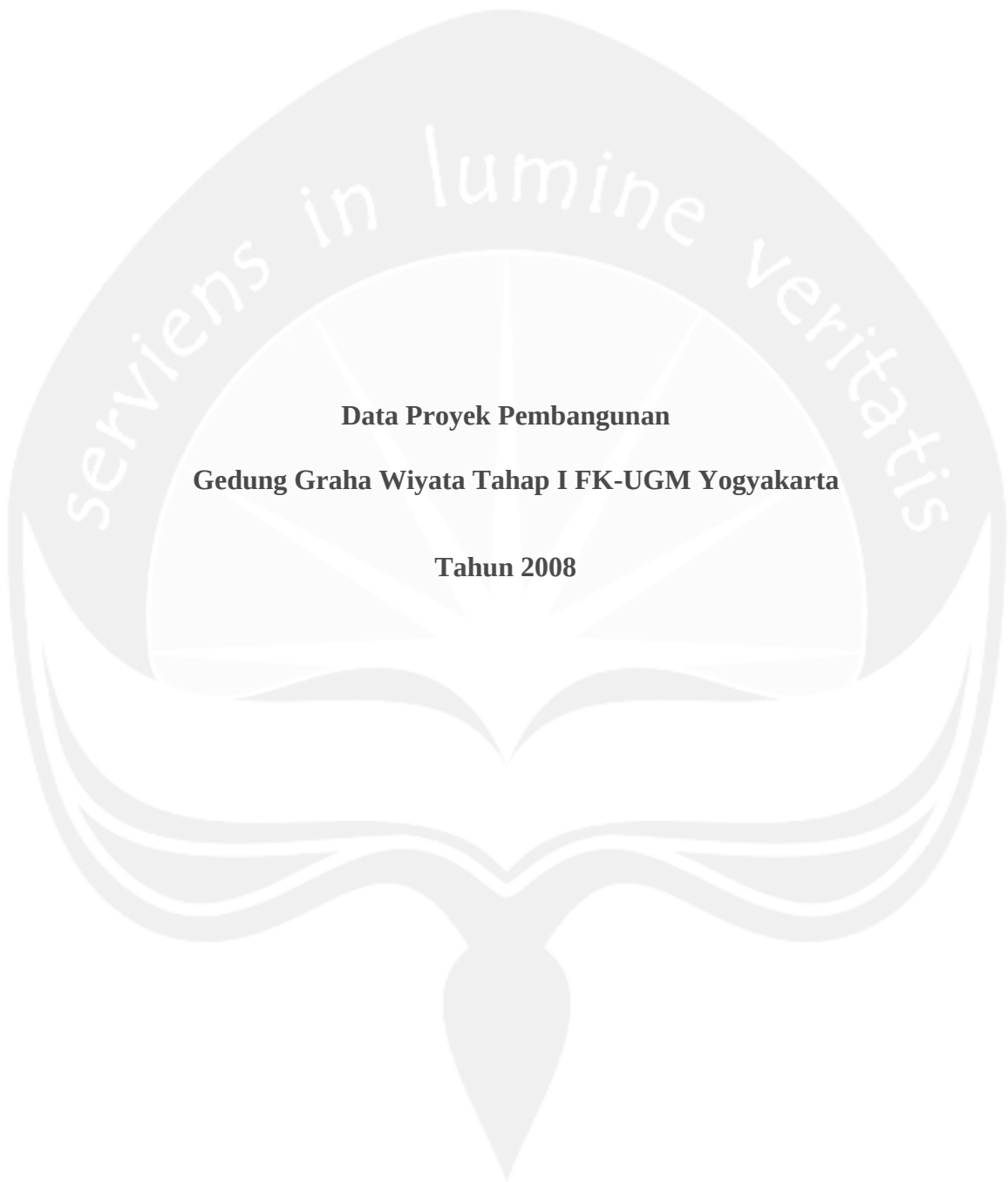






Lampiran 2
<i>Hisstorical Data</i>





Data Proyek Pembangunan

Gedung Graha Wiyata Tahap I FK-UGM Yogyakarta

Tahun 2008

REKAPITULASI BIAYA

PROYEK : PENGEMBANGAN FAKULTAS KEDOKTERAN UGM YOGYAKARTA
 PEKERJAAN : PEMBANGUNAN GEDUNG GRHA WIYATA TAHAP I FK-UGM YOGYAKARTA
 LOKASI : SEKIP UTARA, BULAKSUMUR, YOGYAKARTA
 TAHUN : 2008

NO.	JENIS PEKERJAAN	SUB JUMLAH (Rp.)	JUMLAH HARGA (Rp.)
I.	PEKERJAAN PERSIAPAN DAN TANAH	77,749,303.75	77,749,303.75
II.	PEKERJAAN BETON BERTULANG		
	A. PONDASI DAN SLOOF	665,458,171.47	
	B. LANTAI 1	1,564,910,560.50	
	C. LANTAI 2	1,449,291,339.73	
	D. LANTAI 3	487,492,402.47	4,167,152,474.17
	TOTAL		4,244,901,777.92
	JASA	10%	424,490,177.79
	JUMLAH		4,669,391,955.71
	PPN	10%	
	JUMLAH PPN	10%	466,939,195.57
	JUMLAH Dibulatkan I M B		5,136,331,151.28 5,136,300,000.00 100,000,000.00
	Construction All Risk (CAR)		15,000,000.00
	Personal Accident (8 orang)		10,000,000.00
	Jumlah		5,261,300,000.00

Yogyakarta, 13 November 2008

PT. Rahayu Trade & Contractor

Ir. Jacobus B. Wiryawan
 Direktur Utama

DAFTAR RINCIAN BIAYA

PROYEK : PENGEMBANGAN FAKULTAS KEDOKTERAN UGM YOGYAKARTA
 PEKERJAAN : PEMBANGUNAN GEDUNG GRHA WIYATA TAHAP I FK-UGM YOGYAKARTA
 LOKASI : SEKIP UTARA, BULAKSUMUR, YOGYAKARTA
 TAHUN : 2008

	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
I.	PEKERJAAN PERSIAPAN DAN TANAH					
1	Pembersihan bangunan lama	1.00	ls	1,100,000.00	1,100,000.00	
2	Uitzet & Bouwplank	174.00	m'	19,400.00	3,375,600.00	
3	Galian tanah pondasi	728.55	m3	13,000.00	9,471,208.50	
4	Urug tanah kembali	437.13	m3	6,022.00	2,632,413.12	
5	Urug tanah peninggian bangunan & pematatan	291.42	m3	22,480.00	6,551,162.06	
6	Urug pasir bawah footplate & sloof	48.57	m3	68,750.00	3,339,208.13	
7	Lantai kerja t=7 cm, bwh footplate, dll (1 : 3 : 5)	22.67	m3	439,922.00	9,971,333.64	
8	Lantai kerja t=7 cm, bwh sloof (1 : 3 : 5)	13.21	m3	439,922.00	5,812,038.30	
9	Direksi keet, Brak & Gudang (3x12)	1.00	ls	6,000,000.00	6,000,000.00	
10	Pagar proyek	156.00	m'	105,900.00	16,520,400.00	
11	Listrik + air kerja	1.00	ls	3,700,000.00	3,700,000.00	
12	Buang tanah hasil galian	870.00	m3	10,662.00	9,275,940.00	
						77,749,303.75
II.	PEKERJAAN BETON BERTULANG					
A.	PONDASI DAN SLOOF					
1	Beton Pondasi P1 (2200 X 2200)	46.69	m3	3,709,591.00	173,208,222.97	
2	Beton Pondasi P2 (2650 X 2650)	67.82	m3	3,349,019.00	227,143,864.66	
3	Beton Pondasi P3 (1200 X 1200)	2.51	m3	1,814,735.00	4,551,355.38	
4	Beton Pondasi PG (4000 X 2300)	11.86	m3	1,165,711.00	13,820,669.62	
5	Beton Sloof S1 (300 x 500)	68.44	m3	3,396,184.00	232,421,248.22	
6	Beton Sloof S2 (300 x 400)	1.87	m3	3,943,511.00	7,382,252.59	
7	Beton Pondasi Tangga Utama	1.32	m3	2,864,814.00	3,795,305.59	
8	Beton Pondasi Tangga Darurat	1.09	m3	2,864,814.00	3,135,252.44	
						665,458,171.47
B.	LANTAI 1					
1	Beton Kolom K1 (500 X 500)	28.68	m3	3,846,443.00	110,315,985.24	
2	Beton Kolom K2 (500 X 500)	28.68	m3	4,188,335.00	120,121,447.80	
3	Beton Kolom K3 (400 X 400)	2.29	m3	5,585,390.00	12,801,713.88	
4	Beton Sirip jendela	9.12	m3	3,892,040.00	35,510,350.23	
5	Beton Balok B1 (350 X 650)	58.09	m3	4,060,142.00	235,861,769.06	
6	Beton Balok B2 (350 X 650)	38.99	m3	4,154,708.00	161,983,755.50	
7	Beton Balok B3 (200 X 400)	0.58	m3	6,354,673.00	3,660,291.65	
8	Beton Balok B4 (200 X 500)	0.84	m3	6,232,230.00	5,235,073.20	
9	Beton Balok B5 (350 X 650)	2.46	m3	4,890,676.00	12,031,062.96	
10	Beton Balok B6 (250 X 600)	0.82	m3	5,468,531.00	4,462,321.30	
11	Beton Balok B9 (350 X 650)	3.83	m3	5,066,433.00	19,394,305.52	
12	Beton Balok BA1 (250 X 600)	50.51	m3	5,121,835.00	258,693,642.18	
				HARGA		SUB JUMLAH

	URAIAN PEKERJAAN	VOL	SAT	SATUAN (Rp.)	JUMLAH (Rp.)	Rp.
13	Beton Balok BA2 (250 X 400)	0.79	m3	6,422,326.00	5,086,482.19	
14	Beton Balok BA3 (250 X 600)	3.82	m3	5,228,473.00	19,951,852.97	
15	Beton Balok BA4 (150 X 300)	0.38	m3	5,651,774.00	2,170,281.22	
16	Beton Balok BA5 (200 X 400)	1.03	m3	5,780,603.00	5,965,582.30	
17	Beton Balok BA6 (100 X 400)	0.43	m3	8,916,323.00	3,851,851.54	
18	Beton Balok & Plat Tangga Utama	5.88	m3	3,735,763.00	21,980,743.84	
19	Beton Balok & Plat Tangga Darurat	3.75	m3	4,284,406.00	16,067,165.16	
20	Beton Plat lantai 2 tipe A	118.61	m3	3,853,418.58	457,046,271.06	
21	Beton Plat lantai 2 tipe B	2.87	m3	4,109,500.00	11,786,046.00	
22	Beton Plat lantai 2 tipe C	0.50	m3	4,165,671.00	2,099,498.18	
23	Beton Plat kanopi tipe D	2.90	m3	4,318,688.00	12,541,469.95	
24	Beton Plat kanopi tipe E	1.42	m3	4,318,688.00	6,115,262.21	
25	Beton Plat Dudukan AC	5.18	m3	3,892,040.00	20,176,335.36	
						1,564,910,560.50
C.	LANTAI 2					
1	Beton Kolom K1 (500 X 500)	5.40	m3	5,147,583.00	27,796,948.20	
2	Beton Kolom K2 (500 X 500)	21.60	m3	4,585,230.00	99,040,968.00	
3	Beton Kolom K3 (400 X 400)	1.73	m3	5,631,369.00	9,731,005.63	
4	Beton Sirip jendela	9.12	m3	3,929,992.00	35,856,618.21	
5	Beton Balok B1 (350 X 650)	61.92	m3	4,088,256.00	253,144,811.52	
6	Beton Balok B2 (350 X 650)	38.99	m3	5,021,991.00	195,797,385.11	
7	Beton Balok B3 (200 X 400)	0.58	m3	6,401,299.00	3,687,148.22	
8	Beton Balok B4 (200 X 500)	0.84	m3	6,277,727.00	5,273,290.68	
9	Beton Balok BA1 (250 X 600)	50.51	m3	5,106,644.00	257,926,375.15	
10	Beton Balok BA2 (250 X 400)	0.79	m3	6,467,358.00	5,122,147.54	
11	Beton Balok BA3 (250 X 600)	3.82	m3	5,266,438.00	20,096,727.41	
12	Beton Balok BA4 (150 X 300)	0.38	m3	5,698,778.00	2,188,330.75	
13	Beton Balok & Plat Tangga Utama	5.88	m3	3,765,569.00	22,156,118.47	
14	Beton Balok & Plat Tangga Darurat	3.75	m3	4,316,959.00	16,189,243.79	
15	Beton Plat lantai 3 tipe A	118.61	m3	3,881,904.00	460,424,869.63	
16	Beton Plat lantai 3 tipe B	2.87	m3	4,139,328.00	11,871,592.70	
17	Beton Plat lantai 3 tipe C	0.50	m3	4,195,794.00	2,114,680.18	
18	Beton Plat Dudukan AC	5.18	m3	3,929,992.00	20,373,078.53	
19	Sparing ME	1.00	ls	500,000.00	500,000.00	
						1,449,291,339.73
D.	LANTAI 3					
1	Beton Kolom K1 (500 X 500)	6.36	m3	5,191,979.00	33,020,986.44	
2	Beton Kolom K2 (500 X 500)	25.44	m3	4,666,485.00	118,715,378.40	
3	Beton Kolom K3 (400 X 400)	2.04	m3	5,681,947.00	11,591,171.88	
4	Beton Kolom K4 (200 X 200)	2.54	m3	5,681,947.00	14,454,873.17	
5	Beton Kolom Kp (120 X 120)	0.73	m3	8,043,744.00	5,893,426.00	
6	Beton Sirip jendela	9.12	m3	3,971,740.00	36,237,520.28	
7	Beton Balok Ring RB1 (350x600)	14.70	m3	2,468,430.00	36,285,921.00	
8	Beton Balok Ring RB2 (250x600)	10.80	m3	6,668,933.00	72,024,476.40	
9	Beton Balok Tandon air BP1 (150x250)	1.07	m3	6,453,070.00	6,904,784.90	
10	Beton Balok Tandon air BP2 (120x200)	0.68	m3	7,896,133.00	5,369,370.44	
11	Beton Balok Atap tangga darurat B3 (200x400)	0.48	m3	6,452,588.00	3,097,242.24	
12	Beton Balok Atap tangga darurat B4 (200x500)	0.70	m3	6,327,774.00	4,429,441.80	
				HARGA		SUB JUMLAH

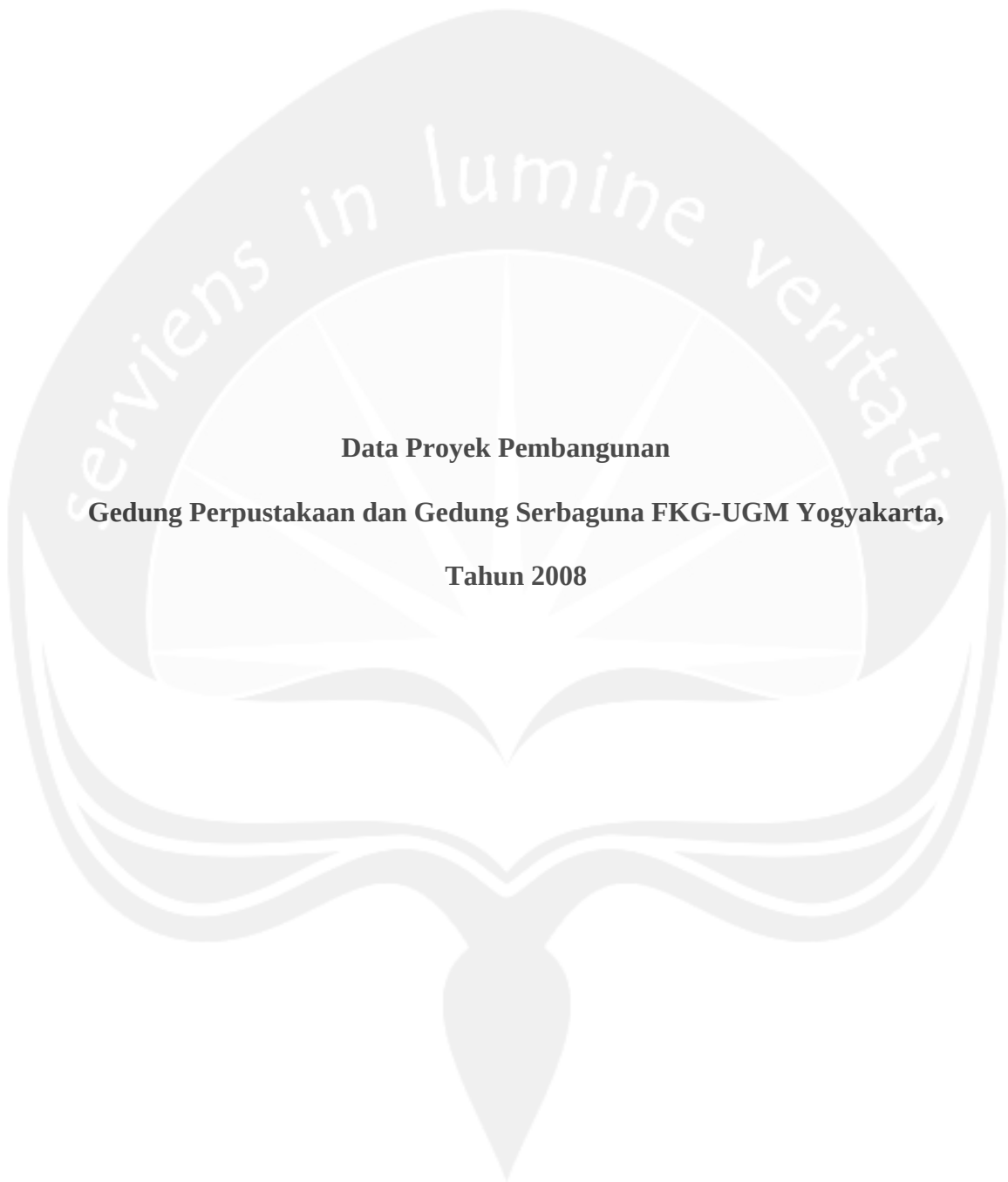
	URAIAN PEKERJAAN	VOL	SAT	SATUAN (Rp.)	JUMLAH (Rp.)	Rp.
13	Beton Balok Atap tangga darurat BA5 (200x40	0.24	m3	5,872,199.00	1,409,327.76	
14	Beton Plat tandon air	3.02	m3	4,228,929.00	12,771,365.58	
15	Beton Plat tipe A Atap tangga darurat	2.52	m3	3,913,238.00	9,861,359.76	
16	Beton talang	27.88	m3	3,971,740.00	110,725,756.42	
17	Angkur dudukan kuda-kuda	120.00	bh	35,000.00	4,200,000.00	
18	Sparing ME	1.00	ls	500,000.00	500,000.00	
						487,492,402.47
				Jumlah Total		4,244,901,777.92
				Jasa	10%	424,490,177.79
				Jumlah		4,669,391,955.71
				PPN	10%	466,939,195.57
				Jumlah		5,136,331,151.28
						5,136,300,000.00
				IMB		100,000,000.00
				CAR		15,000,000.00
				Personal Act		10,000,000.00
						5,261,300,000.00

Yogyakarta, 13 November 2008

PT. Rahayu Trade & Contractor

Ir. Jacobus B. Wiryawan

Direktur Utama



Data Proyek Pembangunan

Gedung Perpustakaan dan Gedung Serbaguna FKG-UGM Yogyakarta,

Tahun 2008

REKAPITULASI BIAYA

**PEKERJAAN : RESTORASI DAN ALIH FUNGSI BANGUNAN EKS GEDUNG BAGIAN PROSTODONSIA
MENJADI GEDUNG PERPUSTAKAAN DAN GEDUNG SERBAGUNA
FAKULTAS KEDOKTERAN GIGI UNIVERSITAS GADJAH MADA**

LOKASI : SEKIP UTARA, YOGYAKARTA

TAHUN : 2008

NO.	JENIS PEKERJAAN	SUB JUMLAH (Rp.)	JUMLAH HARGA (Rp.)
I	PEKERJAAN PERSIAPAN DAN TANAH	74,863,851.66	
II	PEKERJAAN BETON BERTULANG		74,863,851.66
	A. PONDASI, SLOOF & BASEMENT	881,164,986.79	
	B. LANTAI 1	582,158,114.38	
	C. LANTAI 2 (+5.70)	1,334,505,754.19	
			2,797,828,855.36
III	PEKERJAAN RANGKA DAN PENUTUP ATAP	406,733,472.69	
IV	PEKERJAAN PINTU, JENDELA, DAN PARTISI		406,733,472.69
	BASEMENT	247,301,340.00	
	LANTAI 1	138,653,229.00	
	LANTAI 2	111,784,543.00	
			497,739,112.00
V	PEKERJAAN PLAFOND		
	BASEMENT	12,332,100.00	
	LANTAI 1	35,368,427.60	
	LANTAI 2	64,918,956.40	
			112,619,484.00
VI	PEKERJAAN LANTAI, KERAMIK & WATERPROOFING		
	BASEMENT	75,135,845.34	
	LANTAI 1	68,605,632.42	
	LANTAI 2	78,939,843.63	
			222,681,321.39
VII	PEKERJAAN PASANGAN DAN RAILING		
	BASEMENT	56,626,646.29	
	LANTAI 1 (+1.70)	90,055,799.57	
	LANTAI 2 (+5.70)	122,492,912.80	
			269,175,358.65
VIII	PEKERJAAN PENGECATAN		
	BASEMENT	16,767,850.62	
	LANTAI 1	24,302,960.65	
NO.	JENIS PEKERJAAN	SUB JUMLAH	JUMLAH HARGA

		(Rp.)	(Rp.)
IX	PEKERJAAN SANITARY FIXTURES		82,829,696.61
	LANTAI 1	3,968,846.00	
	LANTAI 2	23,420,690.00	
X	PEKERJAAN DRAINASI AIR HUJAN		27,389,536.00
	LANTAI 1	63,287,623.50	
	LANTAI 2	7,327,076.50	
	LANTAI ATAP	6,034,063.00	
			76,648,763.00
XI	PEKERJAAN PLUMBING		
	A. Instalasi air bersih		
	LANTAI 1	7,526,310.53	
	LANTAI 2	2,899,529.08	
			10,425,839.60
	B. Instalasi air kotor & Kotoran		
XII	GROUND & LANTAI 1	38,760,530.30	
	LANTAI 2	6,227,913.50	
			44,988,443.80
	PEKERJAAN LISTRIK		
	SDP Basement	7,558,000.00	
	MDP Lt Bawah	12,515,000.00	
	SDP Lantai Atas	8,408,000.00	
	Kabel-kabel Tufur/ Feeder	57,795,000.00	
	Instalasi Listrik Basement	27,987,500.00	
	Instalasi Listrik Lt Bawah	23,795,000.00	
	Instalasi Listrik Lantai Atas	31,456,250.00	
			169,514,750.00
XIII	PEKERJAAN ENTRANCE & LAIN-LAIN	104,499,375.00	
			104,499,375.00
	TOTAL		4,897,937,859.75
	JASA	10.0%	489,793,785.97
	JUMLAH		5,387,731,645.72
	PPN	10%	
	JUMLAH		
	PPN	10.0%	538,773,164.57
	JUMLAH		5,926,504,810.30
	Dibulatkan		5,926,504,000.00
	C A R		20,000,000.00
	P A (8 orang)		12,000,000.00
	I M B		28,200,000.00

	JUMLAH	5,986,704,000.00

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Yogyakarta, 18 November 2008

PT. POLA DATA CONSULTANT

Nufrizal Faried Hanafi, ST.

Direktur Utama

DAFTAR RINCIAN BIAYA

**PEKERJAAN : RESTORASI DAN ALIH FUNGSI BANGUNAN EKS GEDUNG BAGIAN PROSTODONSIA
MENJADI GEDUNG PERPUSTAKAAN DAN GEDUNG SERBAGUNA
FAKULTAS KEDOKTERAN GIGI UNIVERSITAS GADJAH MADA**

LOKASI : SEKIP UTARA, YOGYAKARTA

TAHUN : 2008

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
I	PEKERJAAN PERSIAPAN DAN TANAH					
1	Urug pasir bawah footplate	22.79	m3	74,650.00	1,701,273.50	
2	Urug pasir bawah lantai basement	37.216	m3	74,650.00	2,778,174.40	
3	Lantai kerja bwh footplate, (1:3:5) t=7 cm	15.9544	m3	453,441.00	7,234,379.09	
4	Galian tanah pondasi dan basement	1473.3067	m3	16,545.00	24,375,859.35	
5	Direksi keet	1	ls	5,400,000.00	5,400,000.00	
6	Pagar proyek	146	m'	67,000.00	9,782,000.00	
7	Urug tanah kembali basement	294.66134	m3	5,835.00	1,719,348.92	
8	Uitzet & Bouwplank	112	m'	21,105.00	2,363,760.00	
9	Pembersihan sisa bangunan lama	1	ls	3,000,000.00	3,000,000.00	
10	Listrik + air kerja	1	ls	6,500,000.00	6,500,000.00	
11	Buang tanah hasil galian	1178.64536	m3	8,492.00	10,009,056.40	
						74,863,851.66
II	PEKERJAAN BETON BERTULANG					
A.	PONDASI, SLOOF & BASEMENT					
1	Beton Foot plate menerus & tie beam	61.79976	m3	2,742,826.00	169,505,988.52	
2	Beton Sloof BS1 (250 x 300)	18.855	m3	5,480,916.00	103,342,671.18	
3	Beton Sloof BS2 (250 x 350)	4.74375	m3	4,129,801.00	19,590,743.49	
4	Beton Dinding penahan tanah	48.504	m3	4,470,190.00	216,822,095.76	
5	Beton Pelat Lantai, h=12 cm	48.384	m3	3,368,365.00	162,974,972.16	
	Tangga samping					
6	Plat tangga & anak tangga dari bsm ke lantai	6.156	m3	2,909,977.00	17,913,818.41	
7	Balok (200 x 300)	0.36	m3	2,909,977.00	1,047,591.72	
	Kolom					
8	Kolom K 1 (400 x 650)	7.735	m3	5,357,593.00	41,440,981.86	
9	Kolom K 1' (400 x 650)	6.63	m3	4,771,224.00	31,633,215.12	
10	Kolom K 2 (400 x 650)	7.735	m3	5,203,625.00	40,250,039.38	
11	Kolom K 3 (350 x 350)	7.28875	m3	6,603,112.00	48,128,432.59	
12	Kolom K 4 (400 x 400)	2.04	m3	4,285,166.00	8,741,738.64	
13	Kolom K 5 (400 x 400)	3.4	m3	5,381,366.00	18,296,644.40	
14	Kolom K 6 (200 x 200)	0.34	m3	4,341,334.00	1,476,053.56	
						881,164,986.79
B.	LANTAI 1					
	Balok					
1	Balok B 1 (300 x 650)	10.53	m3	5784925	60915260.25	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
2	Balok B 2 (300 x 350)	12.6	m3	7,096,537.00	89,416,366.20	582,158,114.38
3	Balok B 3 (250 x 350)	3.0975	m3	6,164,837.00	19,095,582.61	
4	Balok B 4 (300 x 450)	3.24	m3	6,282,872.00	20,356,505.28	
5	Balok B 5 (200 x 300)	0.24	m3	7,046,987.00	1,691,276.88	
6	Balok B A (200 x 300)	3.816	m3	6,082,785.00	23,211,907.56	
7	Balok B A1 (150 x 200)	0.054	m3	5,828,662.00	314,747.75	
	Junction					
8	Balok B 2 (300 x 350)	0.42	m3	7,096,537.00	2,980,545.54	
9	Balok B 3 (250 x 350)	0.525	m3	6,164,837.00	3,236,539.43	
10	Balok B 9 (200 x 300)	0.3	m3	5,211,143.00	1,563,342.90	
11	Balok B 10 (200 x 250)	0.18	m3	4,675,742.00	841,633.56	
12	Balok B 11 (250 x 1000)	1	m3	3,830,588.00	3,830,588.00	
13	Balok B A1 (150 x 200)	0.108	m3	5,828,662.00	629,495.50	
14	Balok BL 3 (150 x 200)	0.6	m3	5,408,658.00	3,245,194.80	
	Plat lantai					
15	Plat lantai tipe A 12 CM	5.184	m3	3,340,245.00	17,315,830.08	
16	Plat lantai tipe B 12 CM	22.032	m3	3,266,389.00	71,965,082.45	
17	Plat lantai tipe C 12 CM	18.144	m3	3,147,634.00	57,110,671.30	
18	Plat Lefel AC tipe F 10 CM	8.736	m3	3,514,486.00	30,702,549.70	
19	Plat Lefel tipe H 10 CM	5.4	m3	3,437,456.00	18,562,262.40	
	Beton Kolom					
20	Kolom K 1 (400 x 650)	7.28	m3	5,399,569.00	39,308,862.32	
21	Kolom K 1' (400 x 650)	6.24	m3	5,399,569.00	33,693,310.56	
22	Kolom K 2 (400 x 650)	7.28	m3	5,244,728.00	38,181,619.84	
23	Kolom K 3 (350 x 350)	7.35	m3	6,656,659.00	48,926,443.65	
24	Kolom K 3' (350 x 350)	0.98	m3	6,656,659.00	6,523,525.82	
25	Kolom K 4 (400 x 400)	3.2	m3	4,323,650.00	13,835,680.00	
26	Kolom K 6 (200 x 200)	0.32	m3	4,323,650.00	1,383,568.00	
	Tangga dalam					
27	Plat tangga & anak tangga dari lt. bawah ke l	3.7905	m3	2,933,966.00	11,121,198.12	
28	Balok & plat bordes	1.7028	m3	2,933,966.00	4,995,957.30	
	Tangga depan					
29	Footplat (1000 x 250 x 10800)	2.0064	m3	2,933,966.00	5,886,709.38	
30	Plat tangga & anak tangga dari footplate ke l	4.1688	m3	2,933,966.00	12,231,117.46	
C.	LANTAI 2 (+5.70)					
	Balok +5.70					
1	Balok B 1 (250 x 650)	20.475	m3	5,828,696.00	119,342,550.60	
2	Balok B 2 (300 x 350)	43.61175	m3	7,147,720.00	311,724,577.71	
3	Balok B 2' (300 x 350)	2.49375	m3	7,219,630.00	18,003,952.31	
4	Balok B 3 (250 x 350)	4.725	m3	6,212,180.00	29,352,550.50	
5	Balok B 4 (300 x 450)	2.835	m3	6,328,766.00	17,942,051.61	
6	Balok B 6 (150 x 250)	2.08125	m3	7,861,761.00	16,362,290.08	
7	Balok B A (200 x 250)	2.88	m3	5,882,136.00	16,940,551.68	
	Plat lantai +5.70					

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
8	Plat lantai tipe A 12 CM	7.776	m3	3,368,365.00	26,192,406.24	1,334,505,754.19
9	Plat lantai tipe B 12 CM	24.624	m3	3,294,087.00	81,113,598.29	
10	Plat lantai tipe C 12 CM	18.144	m3	3,174,659.00	57,601,012.90	
11	Plat lantai tipe D 12 CM	8.415	m3	3,204,386.00	26,964,908.19	
12	Plat lantai junction 12 CM	3.78	m3	3,324,555.00	12,566,817.90	
13	Plat meja beton pantry tebal 8 cm	0.2295	m3	3,437,456.00	788,896.15	
	Beton Kolom +5.70 - 10.70					
14	Kolom K 3 (350 x 350)	8.39125	m3	6,715,561.00	56,351,951.24	
15	Kolom K 3' (350 x 350)	1.04125	m3	5,266,545.00	5,483,789.98	
16	Kolom K 4 (400 x 400)	3.2	m3	4,365,983.00	13,971,145.60	
17	Kolom K 5 (400 x 400)	9.6	m3	5,475,230.00	52,562,208.00	
18	Kolom K 6 (200 x 200)	0.34	m3	4,422,820.00	1,503,758.80	
	Beton Talang					
19	Balok B 3 (250 x 350)	7.245	m3	6,264,258.00	45,384,549.21	
20	Balok B 4 (300 x 450)	2.025	m3	6,379,250.00	12,917,981.25	
21	Balok B 5 (200 x 300)	0.27	m3	7,162,484.00	1,933,870.68	
22	Balok B 8 (250 x 400)	4.65	m3	4,473,271.00	20,800,710.15	
23	Plat talang	23.04	m3	8,027,706.00	184,958,346.24	
24	Lisplank talang	12.96	m3	7,611,912.00	98,650,379.52	
	Balok Ring +10.70					
25	Balok BR	8.4	m3	5,421,417.00	45,539,902.80	
	Beton Atap Junction					
26	Balok B Junction (200 x 250)	2.25	m3	5,940,956.00	13,367,151.00	
27	Plat atap junction 12 CM	3.888	m3	3,324,555.00	12,925,869.84	
28	Balok BL	2.6	m3	5,522,719.00	14,359,069.40	
	Tangga junction					
29	Plat tangga & anak tangga dari bang. Baru ke	6.384	m3	2,960,355.00	18,898,906.32	
III	PEKERJAAN RANGKA DAN PENUTUP ATAP					
1	Siku 70.70.7 (batang kuda-kuda & tumpuan)	2165.856	kg	17,315.00	37,501,796.64	1,334,505,754.19
2	Siku 60.60.6	1274.156	kg	17,315.00	22,062,011.14	
3	Siku 50.50.5 (kuda-kuda & ikatan angin verti	3653.6305	kg	17,315.00	63,262,612.11	
4	Pipa hitam 4" - 3,2mm	363	kg	17,315.00	6,285,345.00	
5	Plat plendes 12 mm, plat buhul 8 mm & kope	2980.1034	kg	17,117.00	51,010,429.90	
6	Baut 1/2"	2190	bh	6,500.00	14,235,000.00	
7	Gording, Nok & Jurai C 150.65.20.3,2	3395.09076	kg	17,712.00	60,133,847.54	
8	Trekstang	24	bh	17,712.00	425,088.00	
9	Ikatan angin, diameter 16 mm	717.25	kg	17,712.00	12,703,932.00	
10	Sagrod, diameter 12 mm	146.946667	kg	17,712.00	2,602,719.36	
11	Angkur kuda2 & jurai ø19 mm - 30 cm	112	bh	12,000.00	1,344,000.00	
12	Lisplank kayu jati 2/20	104	m1	97,500.00	10,140,000.00	
13	Usuk bangkirai 5/7 reng jati 3/3	697.5	m2	83,345.00	58,133,137.50	
14	Papan ruter jati 2/15	68	m'	53,907.00	3,665,676.00	
15	Genteng beton	697.5	m2	85,337.00	59,522,557.50	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
16	Kerpus genteng beton	68	m'	54490	3705320	406,733,472.69
IV	PEKERJAAN PINTU, JENDELA, DAN PARTISI BASEMENT					
1	BV 1	14	Unit	3,842,979.00	53,801,706.00	
2	BV3'	2	Unit	2,697,146.00	5,394,292.00	
3	BV5	2	Unit	1,923,451.00	3,846,902.00	
4	PT 2'	3	Unit	6,797,544.00	20,392,632.00	
5	PT-4	1	Unit	12,296,805.00	12,296,805.00	
6	PT-5	1	Unit	9,230,063.00	9,230,063.00	
7	PT 6	1	Unit	6,943,266.00	6,943,266.00	
8	PT 7	2	Unit	3,386,450.00	6,772,900.00	
9	PT 8	1	Unit	8,535,912.00	8,535,912.00	
10	PT 9	1	Unit	8,868,942.00	8,868,942.00	
11	PT 10	3	Unit	11,604,480.00	34,813,440.00	
12	PT 10'	1	Unit	11,604,480.00	11,604,480.00	
13	Folding door sound proof + penggantung & r	54	m2	1,200,000.00	64,800,000.00	247,301,340.00
	LANTAI 1					
1	J 1	7	Unit	7,921,016.00	55,447,112.00	
2	PT 1	1	Unit	15,624,603.00	15,624,603.00	
3	PT 2	6	Unit	6,452,623.00	38,715,738.00	
4	PT 3	1	Unit	11,925,083.00	11,925,083.00	
5	Ps	1	Unit	1,994,114.00	1,994,114.00	
6	P 2	1	Unit	4,245,769.00	4,245,769.00	
7	P 3	1	Unit	2,474,819.00	2,474,819.00	
8	BV 2	2	Unit	1,749,690.00	3,499,380.00	
9	BV 2'	1	Unit	1,335,550.00	1,335,550.00	
10	BV 4	1	Unit	3,391,061.00	3,391,061.00	138,653,229.00
	LANTAI 2					
1	J 1	5	Unit	7,921,016.00	39,605,080.00	
2	BV3	2	Unit	2,613,860.00	5,227,720.00	
3	P 1	5	Unit	8,570,654.00	42,853,270.00	
4	P 2	3	Unit	4,245,769.00	12,737,307.00	
5	P 3	2	Unit	2,474,819.00	4,949,638.00	
6	P 3'	1	Unit	2,474,819.00	2,474,819.00	
7	P 4	1	Unit	3,936,709.00	3,936,709.00	111,784,543.00
V	PEKERJAAN PLAFOND BASEMENT					
1	Plafond dak Ekspose	666.6	m2	18,500.00	12,332,100.00	12,332,100.00

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
	LANTAI 1					
1	Plafond Dinogyp, Rangka Cross T & Main T K	226.8	m2	61,500.00	13,948,200.00	
2	Lubang lampu TL 2x40 watt	14	lbg	25,000.00	350,000.00	
3	Lubang lampu Downlight	12	lbg	25,000.00	300,000.00	
4	Plafond Calciboard 4 mm, Rangka kayu kamp	183.6	m2	96,041.00	17,633,127.60	
5	List plepet kayu profil 3/4	96	m1	25,000.00	2,400,000.00	
6	Plafond dak Ekspose beton level	37.8	m2	19,500.00	737,100.00	
						35,368,427.60
	LANTAI 2					
1	Plafond Dinogyp, Rangka Cross T & Main T K	302.4	m2	63,000.00	19,051,200.00	
2	Lubang lampu TL 2x40 watt	18	lbg	25,000.00	450,000.00	
3	Lubang lampu Downlight	12	lbg	25,000.00	300,000.00	
4	Plafond dalam Calciboard 4 mm, Rk kayu kar	140.4	m2	96,041.00	13,484,156.40	
5	Plafond tritisan Calciboard 4 mm, Rk kayu ka	100	m2	109,841.00	10,984,100.00	
6	Plafond bawah level Calciboard 4 mm, Rk ka	153	m2	20,500.00	3,136,500.00	
7	List plepet ruang dalam kayu profil 3/4	96.5	m1	26,000.00	2,509,000.00	
8	List plepet tritisan kayu profil 3/4	545.6	m1	27,500.00	15,004,000.00	
						64,918,956.40
VI	PEKERJAAN LANTAI, KERAMIK & WATERPROOFING					
	BASEMENT					
1	Batu Candi/ Batu Tempel	70.8625	m2	114,741.00	8,130,834.11	
2	Keramik 30x30 cm2	388.8	m2	84,346.00	32,793,724.80	
3	Keramik tangga 30x30 cm2	44.7556	m2	88,563.30	3,963,703.63	
4	Stepnose tangga	36	m'	45,566.00	1,640,376.00	
5	Keramik Plin	121.2	m1	22,439.00	2,719,606.80	
6	Waterproofing dinding dan lantai beton base	575.28	m1	45,000.00	25,887,600.00	
						75,135,845.34
	LANTAI 1					
1	Batu Candi/ Batu Tempel	117.2175	m2	116,833.00	13,694,872.18	
2	Keramik 30x30 cm2	383.4	m2	85,482.00	32,773,798.80	
3	Keramik lantai KM/WC 20x20 cm2	5.4	m2	82,756.00	446,882.40	
4	Keramik Dinding KM/WC 20X25 cm2 tinggi 1	24.5385	m2	89,756.00	2,202,477.61	
5	Border Keramik Dinding KM/WC 5x20 cm2	11.4	m2	49,403.00	563,194.20	
6	Keramik tangga 30x30 cm2	55.952	m2	89,756.10	5,022,033.31	
7	Stepnose tangga	159.862857	m'	46,762.00	7,475,506.93	
8	Keramik Plin	129	m1	22,723.00	2,931,267.00	
9	Waterproofing plat lefel & KM	77.68	m1	45,000.00	3,495,600.00	
						68,605,632.42
	LANTAI 2					
1	Batu Candi/ Batu Tempel	62.017	m2	119,134.00	7,388,333.28	
2	Keramik 30x30 cm2 Selasar, Lobby & pantry	446.34	m2	86,732.00	38,711,960.88	
3	Keramik lantai KM/WC 20x20 cm2	20.16	m2	85,142.00	1,716,462.72	
4	Keramik Dinding KM/WC 20X25 cm2 tinggi 1	70.6914	m2	92,142.00	6,513,646.98	
5	Keramik Dinding & Meja Pantry 20x25	16.2	m2	92,142.00	1,492,700.40	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
6	Border Keramik Dinding KM/WC 5x20 cm2	36.12	m2	51,051.00	1,843,962.12	78,939,843.63
7	Keramik Plin	189.5	m1	23,035.50	4,365,227.25	
8	Plin kayu kamper 2/10 finish melamine	74.4	m1	47,500.00	3,534,000.00	
9	Waterproofing beton talang, plat lefel & KM	297.19	m1	45,000.00	13,373,550.00	
VII	PEKERJAAN PASANGAN DAN RAILING BASEMENT					
1	Pasangan Bata diatas dinding penahan tanah	67.1299	m2	58,297.00	3,913,471.78	56,626,646.29
2	Pasangan Batu Kali pondasi shaft & trap ke b	14.28	m3	431,650.00	6,163,962.00	
3	Plesteran beton & plesteran Kedap Air (1 : 3)	891.414	m2	26,325.00	23,466,473.55	
4	Plesteran (1 : 5)	134.2598	m2	30,355.00	4,075,456.23	
5	Kolom Praktis & balok latei	0.81875	m3	3,209,353.00	2,627,657.77	90,055,799.57
6	Pasangan roster	0	m2	375,000.00	-	
6	Railing Stainless Stell Tangga samping	18.7	m'	775,000.00	14,492,500.00	
7	Sponengan	677.36	m'	2,786.00	1,887,124.96	
	LANTAI 1 (+1.70)					
1	Pasangan Bata (1 : 4)	209.6774	m2	59,570.00	12,490,482.72	122,492,912.80
2	Pasangan Bata Kedap Air (1 : 2)	54	m2	62,766.00	3,389,364.00	
3	Plesteran Kedap Air (1 : 3)	419.3548	m2	27,413.00	11,495,773.13	
4	Plesteran (1 : 5)	522.02	m2	32,102.00	16,757,886.04	
5	Kolom Praktis & balok latei	3.062	m3	3,249,998.00	9,951,493.88	
6	Pasangan roster	8	m2	393,750.00	3,150,000.00	
7	Railing Stainless Stell Tangga dalam	11.66	m2	775,000.00	9,036,500.00	
8	Railing Stainless Stell Tangga samping	12.65	m'	775,000.00	9,803,750.00	
9	Railing Stainless Stell Tangga depan	14.3	m'	775,000.00	11,082,500.00	
10	Sponengan	957.4	m'	3,027.00	2,898,049.80	
	LANTAI 2 (+5.70)					
1	Pasangan Bata Kedap Air (1 : 2)	282.3	m2	62,766.00	17,718,841.80	
2	Pasangan Bata (1 : 4)	538.9856	m2	58,297.00	31,421,243.52	
3	Plesteran Kedap Air (1 : 3)	564.6	m2	26,325.00	14,863,095.00	
4	Plesteran (1 : 5)	1077.9712	m2	30,355.00	32,721,815.78	
5	Kolom Praktis & balok latei	3.9	m3	3,209,353.00	12,516,476.70	
6	Pasangan roster	8	m2	413,437.50	3,307,500.00	
7	Railing Stainless Stell Tangga dalam	5.1	m'	775,000.00	3,952,500.00	
8	Sponengan	1820	m'	3,292.00	5,991,440.00	
VIII	PEKERJAAN PENGECATAN BASEMENT					
1	Cat Dinding Luar DULUX weathershield	40.8	m2	24,841.00	1,013,512.80	
2	Cat Tembok Dalam Catylac	485.0179	m2	12,566.00	6,094,734.93	
3	Cat dak beton expose Catylac	666.6	m2	12,566.00	8,376,495.60	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
4	Coating Batu Tempel	70.8625	m2	18,107.00	1,283,107.29	16,767,850.62
	LANTAI 1					
1	Cat Dinding Luar DULUX weathershield	638.8254	m2	24,841.00	15,869,061.76	
2	Cat Tembok Dalam Catylac	294.6814	m2	13,001.00	3,831,152.88	
3	Cat Plafond Calciboard	183.6	m2	13,001.00	2,386,983.60	
4	Coating Batu Tempel	117.2175	m2	18,903.00	2,215,762.40	24,302,960.65
	LANTAI 2					
1	Cat Dinding Luar DULUX weathershield	1038.85415	m2	24,841.00	25,806,175.94	
2	Cat Tembok Dalam Catylac	795.70385	m2	13,480.00	10,726,087.90	
3	Cat Plafond Calciboard	229.6	m2	13,480.00	3,095,008.00	
4	Cat kayu lisplank	45.76	m2	19,778.00	905,041.28	41,758,885.34
5	Coating Batu Tempel	62.017	m2	19,778.00	1,226,572.23	
IX	PEKERJAAN SANITARY FIXTURES					
	LANTAI 1					
1	Closet Duduk Monoblok CW420	1	bh	1,960,246.00	1,960,246.00	3,968,846.00
2	Toilet Shower	1	bh	275,000.00	275,000.00	
3	Paper holder TX 11 B	1	bh	475,000.00	475,000.00	
4	Kran dinding KM & T Wudhlu SAN EI Y20 LC	3	bh	265,000.00	795,000.00	
5	Floor Drain TX 1 AN	2	bh	231,800.00	463,600.00	
	LANTAI 2					
1	Closet Duduk Monoblok CW420	3	bh	1,960,246.00	5,880,738.00	23,420,690.00
2	Toilet Shower	3	bh	275,000.00	825,000.00	
3	Paper holder TX 11 B	3	bh	475,000.00	1,425,000.00	
4	Urinoir U104	2	bh	1,721,315.00	3,442,630.00	
5	Wastafel LW 220	4	bh	1,812,940.00	7,251,760.00	
6	Cermin wastafel 40x60 cm	4	bh	200,000.00	800,000.00	
7	Kran dinding SAN EI Y20 LC	4	bh	265,000.00	1,060,000.00	
8	Kran pantry San Ei	1	bh	350,000.00	350,000.00	
9	Kitchen zink 1 lobang	1	bh	575,000.00	575,000.00	
10	Floor Drain TX 1 AN	5	bh	232,480.00	1,162,400.00	
11	Sekat Urinoir	1	bh	648,162.00	648,162.00	
X	PEKERJAAN DRAINASI AIR HUJAN					
	LANTAI 1					
1	Pipa diameter 4" PVC AW	112.5	m'	68,001.00	7,650,112.50	23,420,690.00
2	Pipa diameter 6" PVC AW	9	m'	173,518.00	1,561,662.00	
3	Sumur Peresapan Air Hujan	4	bh	2,425,923.00	9,703,692.00	
4	Bak Kontrol terbuka 50x50 cm	15	bh	508,706.00	7,630,590.00	
5	Bak Kontrol tertutup 50x50 cm	4	bh	508,706.00	2,034,824.00	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
6	Bak Kontrol tertutup 30x30 cm	14	bh	409,293.00	5,730,102.00	63,287,623.50
7	Saluran Air Hujan keliling bangunan U 20 cm	118	m'	180,763.00	21,330,034.00	
8	Tutup Saluran Plat Beton (t=10 cm)	28.5	m'	268,302.00	7,646,607.00	
	LANTAI 2					
1	Pipa diameter 4" PVC AW	76.5	m'	68,001.00	5,202,076.50	7,327,076.50
2	Floor Drain (selasar & luifel)	17	bh	125,000.00	2,125,000.00	
	LANTAI ATAP					
1	Pipa diameter 4" PVC AW	63	m'	68,001.00	4,284,063.00	6,034,063.00
2	Roof Drain (pada talang)	14	bh	125,000.00	1,750,000.00	
XI	PEKERJAAN PLUMBING					
A.	Instalasi air bersih					
	LANTAI 1					
1	Pipa diameter 1 1/2" GIP dari tower existing	66	m'	73,126.00	4,826,316.00	7,526,310.53
2	Stop kran dia 1 1/2 "	1	bh	400,000.00	400,000.00	
3	Pipa diameter 1" GIP Distribusi lt.1	3.25	m'	73,126.00	237,659.50	
4	Pipa diameter 3/4" PVC	15.1	m'	10,977.75	165,764.03	
5	Stop kran dia 1"	1	bh	375,000.00	375,000.00	
6	Material bantu	1	ls	400,000.00	400,000.00	
7	Fitting-fitting	1	ls	500,000.00	500,000.00	
8	Pipa diameter 1 1/2" Vertikal lt.1 s/d lt.2	8.5	m'	73,126.00	621,571.00	
	LANTAI 2					
1	Pipa diameter 1" GIP Distribusi lt.2	11.7	m'	73,126.00	855,574.20	2,899,529.08
2	Pipa diameter 3/4" PVC	24.5	m'	10,977.75	268,954.88	
3	Stop kran dia 1"	1	bh	375,000.00	375,000.00	
4	Material bantu	1	ls	400,000.00	400,000.00	
5	Fitting-fitting	1	ls	1,000,000.00	1,000,000.00	
B.	Instalasi air kotor & Kotoran					
	GROUND & LANTAI 1					
1	Pipa diameter 3" PVC Wavin AW	6.8	m'	43,911.00	298,594.80	38,760,530.30
2	Pipa diameter 4" PVC Wavin AW	17.5	m'	68,001.00	1,190,017.50	
3	Pipa diameter 6" PVC Wavin AW	6	m'	173,518.00	1,041,108.00	
4	Pipa Vent PVC (Klas D) ø2"	16	m'	20,677.00	330,832.00	
5	Material Bantu	1	ls	500,000.00	500,000.00	
6	Fitting-fitting	1	ls	2,500,000.00	2,500,000.00	
7	Septitank 10 m3	1	bh	23,271,440.00	23,271,440.00	
8	Sumur Peresapan Air Kotor d 2 m', pas. Bata	1	bh	8,678,538.00	8,678,538.00	
9	Clean out 4"	2	bh	475,000.00	950,000.00	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
	LANTAI 2					
1	Pipa diameter 1,25" PVC Wavin AW	7	m'	17,319.00	121,233.00	
2	Pipa diameter 2" PVC Wavin AW	5.25	m'	32,836.00	172,389.00	
3	Pipa diameter 3" PVC Wavin AW	13.8	m'	43,911.00	605,971.80	
4	Pipa diameter 4" PVC Wavin AW	11.7	m'	68,001.00	795,611.70	
5	Pipa Vent PVC (Klas D) ø2"	4	m'	20,677.00	82,708.00	
6	Material Bantu	1	ls	500,000.00	500,000.00	
7	Fitting-fitting	1	ls	3,000,000.00	3,000,000.00	
8	Clean out 4"	2	bh	475,000.00	950,000.00	
						6,227,913.50
XII	PEKERJAAN LISTRIK					
	SDP Basement					
1	Box Panel 30X40X20 cm Asahi (wall maounte	1	unit	550,000.00	550,000.00	
2	MCCB EZC 35A/3P/16kA Merlin Gerind	1	bh	1,500,000.00	1,500,000.00	
3	MCB 10A/1P/5kA Merlin Gerind	7	bh	250,000.00	1,750,000.00	
4	MCB 20A/1P/5kA Merlin Gerind	5	bh	350,000.00	1,750,000.00	
5	Lampu indikator RST	3	bh	45,000.00	135,000.00	
6	Fuse 2A	3	bh	25,000.00	75,000.00	
7	Cu Bar 2(2x15x0.3)cm	1.8	kg	110,000.00	198,000.00	
8	Kabel Montese	1	ls	250,000.00	250,000.00	
9	Acessories	1	ls	500,000.00	500,000.00	
10	Arde BC 10 mm2 dg tahanan < 3ohm	1	ls	850,000.00	850,000.00	
						7,558,000.00
	MDP Lt Bawah					
1	Box Panel 60X80X20 cm Asahi (wall mounte	1	unit	850,000.00	850,000.00	
2	MCCB EZC 100A/3P/18kA Merlin Gerind	1	bh	1,875,000.00	1,875,000.00	
3	MCCB EZC 63A/3P/18kA Merlin Gerind	1	bh	1,650,000.00	1,650,000.00	
4	MCCB EZC 35A/3P/16kA Merlin Gerind	2	bh	1,500,000.00	3,000,000.00	
5	MCB 10A/1P/5kA Merlin Gerind	6	bh	250,000.00	1,500,000.00	
6	MCB 20A/1P/5kA Merlin Gerind	4	bh	350,000.00	1,400,000.00	
7	Lampu indikator RST	3	bh	45,000.00	135,000.00	
8	Fuse 2 A	3	bh	25,000.00	75,000.00	
9	Cu Bar 2(2x15x0.3)cm	1.8	kg	100,000.00	180,000.00	
10	Cu Bar 3(2x30x0.3)cm	2.5	kg	100,000.00	250,000.00	
11	Kabel Montese	1	ls	250,000.00	250,000.00	
12	Acessories	1	ls	500,000.00	500,000.00	
13	Arde BC 16 mm2 dg tahanan < 3ohm	1	ls	850,000.00	850,000.00	
						12,515,000.00
	SDP Lantai Atas					
1	Box Panel 30X40X20 cm Asahi (wall maounte	1	unit	550,000.00	550,000.00	
2	MCCB EZC 63 A/3P/16kA Merlin Gerind	1	bh	1,650,000.00	1,650,000.00	
3	MCB 10A/1P/5kA Merlin Gerind	7	bh	250,000.00	1,750,000.00	
4	MCB 20A/1P/5kA Merlin Gerind	7	bh	350,000.00	2,450,000.00	
5	Lampu indikator RST	3	bh	45,000.00	135,000.00	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
6	Fuse 2A	3	bh	25,000.00	75,000.00	8,408,000.00
7	Cu Bar 2(2x15x0.3)cm	1.8	kg	110,000.00	198,000.00	
8	Kabel Montese	1	ls	250,000.00	250,000.00	
9	Acessories	1	ls	500,000.00	500,000.00	
10	Arde BC 10 mm2 dg tahanan < 3ohm	1	ls	850,000.00	850,000.00	
	Kebel-kabel Toufur/ Feeder					
1	NYY 4x10mm2 Supreme dari MDP ke SDP Lt	20	m'	110,000.00	2,200,000.00	57,795,000.00
2	NYY 4x10mm2 Supreme dari MDP ke SDP Ba	8	m'	95,000.00	760,000.00	
3	NYY 4x25mm2 Supreme Dari LV MDP ke MD	72	m'	180,000.00	12,960,000.00	
4	MCCB EZC 100A/3P/18kA Merlin Gerind	1	bh	1,875,000.00	1,875,000.00	
5	Galian, pengaman & pipa kabel dari MDP ke	1	ls	5,000,000.00	5,000,000.00	
6	Biaya ijin penyambungan daya ke listrik UGM	50000	VA	550.00	27,500,000.00	27,987,500.00
7	Box meter & meteran 3 ph x 100A	1	unit	7,500,000.00	7,500,000.00	
	Instalasi Listrik Basement					
1	Instalasi titik lampu	35	titik	125,000.00	4,375,000.00	
2	Instalasi stop kontak	6	titik	125,000.00	750,000.00	
3	Instalasi stop kontak AC NYM 3x2,5mm2 Ete	197	m'	37,500.00	7,387,500.00	23,795,000.00
4	Lampu TKI / RMOT 1X36 Watt Artolite	34	unit	420,000.00	14,280,000.00	
5	Lampu Pijar Armatur Baret 20 W	1	bh	250,000.00	250,000.00	
6	Saklar tunggal Broco type Gracia	2	bh	35,000.00	70,000.00	
7	Saklar Ganda Broco type Gracia	3	bh	50,000.00	150,000.00	
8	Stop Kontak Broco type Gracia	5	bh	45,000.00	225,000.00	23,795,000.00
9	Stop Kontak AC Broco	4	bh	125,000.00	500,000.00	
	Instalasi Listrik Lt Bawah					
1	Instalasi titik lampu	33	titik	125,000.00	4,125,000.00	
2	Instalasi stop kontak	12	titik	125,000.00	1,500,000.00	
3	Instalasi stop kontak AC	160	m'	37,500.00	6,000,000.00	23,795,000.00
4	Lampu TKI / RMOT 2X36 Watt Artolite	14	unit	480,000.00	6,720,000.00	
5	Lampu Armateur barret 20 Watt Artolite	2	unit	225,000.00	450,000.00	
6	Lampu Down Light 18 Watt	13	unit	200,000.00	2,600,000.00	
7	Lampu Armateur barret 20 Watt Artolite	4	bh	250,000.00	1,000,000.00	
8	Saklar tunggal Broco type Gracia	6	bh	35,000.00	210,000.00	23,795,000.00
9	Saklar Ganda Broco type Gracia	3	bh	50,000.00	150,000.00	
10	Stop Kontak Broco type Gracia	12	bh	45,000.00	540,000.00	
11	Stop Kontak AC Broco	4	bh	125,000.00	500,000.00	
	Instalasi Listrik Lantai Atas					
1	Instalasi titik lampu	43	titik	125,000.00	5,375,000.00	23,795,000.00
2	Instalasi stop kontak	7	titik	125,000.00	875,000.00	
3	Instalasi stop kontak AC NYM 3x2,5mm2 Ete	229.9	m'	37,500.00	8,621,250.00	
4	Lampu TKI / RMOT 2X36 Watt Artolite	21	unit	480,000.00	10,080,000.00	
5	Lampu Armetur barret 20 Watt Artolite	5	unit	225,000.00	1,125,000.00	

No.	URAIAN PEKERJAAN	VOL	SAT	HARGA SATUAN (Rp.)	JUMLAH (Rp.)	SUB JUMLAH Rp.
6	Lampu Down Light 18 Watt	9	unit	200,000.00	1,800,000.00	31,456,250.00
7	Lampu Pijar Armatur Baret 20 W	8	unit	250,000.00	2,000,000.00	
8	Saklar tunggal Broco type Gracia	4	bh	35,000.00	140,000.00	
9	Saklar Ganda Broco type Gracia	5	bh	50,000.00	250,000.00	
10	Stop Kontak Broco type Gracia	7	bh	45,000.00	315,000.00	
11	Stop Kontak AC Broco	7	bh	125,000.00	875,000.00	
XIII	PEKERJAAN ENTRANCE & LAIN-LAIN					
1	Pekerjaan anti rayap basement	1	ls	19,500,000.00	19,500,000.00	104,499,375.00
2	Pembenahan kanopi/ selasar penghubung	36	m2	1,250,000.00	45,000,000.00	
3	Perataan tanah halaman Entrance	483	m2	12,000.00	5,796,000.00	
4	Pavingblock tebal 8 cm, K 200, urug pasir 10	384.15	m2	82,500.00	31,692,375.00	
5	Kansteen beton h = 30 cm	46.5	m'	54,000.00	2,511,000.00	
					TOTAL	4,897,937,859.75

Yogyakarta, 18 November 2008
PT. POLA DATA CONSULTANT

Nufrizal Faried Hanafi, ST.
Direktur Utama



Data Proyek pembangunan

Gedung EDU Hostel Yogyakarta,

Tahun 2010

HIMPUNAN REKAPITULASI

Proyek : Pembangunan Edu Hostel
Lokasi : Jl. Letjend. Suprpto No.17, Ngampilan, Yogyakarta
Tahun : 2010

No	PEKERJAAN	SUB - JUMLAH	JUMLAH HARGA
I	PEKERJAAN STRUKTUR	6,566,289,103.39	
II	PEKERJAAN ARSITEKTUR	5,220,247,618.81	
III	PEKERJAAN MEKANIKAL & ELEKTRIKAL	4,094,933,096.00	
		JUMLAH BIAYA	15,881,469,818.21
		JASA 5%	794,073,490.91
		JUMLAH	16,675,543,309.12
		PPN 10%	1,667,554,330.91
		JUMLAH	18,343,097,640.03
		DIBULATKAN	18,343,097,000.00

Yogyakarta, 5 Mei 2010

PT. Rahayu Trade & Contractors

Ir. Jacobus B. Wiryawan
Direktur Utama

BILL OF QUANTITY PEKERJAAN STRUKTUR

PROYEK

PEMBANGUNAN GEDUNG E

JL. LEDJEND. SUPRAPTO NO.17, NGAMPILAN, YOGYAKARTA

TH. 2010

No.	ITEM PEKERJAAN	VOL	SAT	HARGA SATUAN	SUB JUMLAH	TOTAL
I	PEKERJAAN STRUKTUR					
A	PEKERJAAN PERSIAPAN					
1	Mobilisasi dan demobilisasi	1.00	ls	Rp 5,000,000.00	Rp 5,000,000.00	
2	Air dan listrik kerja	1.00	ls	Rp 5,000,000.00	Rp 5,000,000.00	
3	Pembersihan lokasi kerja/land	1.00	m ²	Rp 2,947,450.00	Rp 2,947,450.00	
4	Brak direksi keet dan gudang	1.00	ls	Rp 5,404,800.00	Rp 5,404,800.00	
5	Pagar pengaman proyek (sew	102.39	m'	Rp 73,250.00	Rp 7,500,067.50	
6	Pengukuran dan Pemasangan	306.64	m ¹	Rp 21,000.00	Rp 6,439,440.00	
TOTAL BIAYA PEKERJAAN PERSIAPAN						Rp 32,291,757.50
B	PEKERJAAN TANAH					
B.1	GALIAN & URUGAN					
1	Galian tanah pondasi footplat	18.00	m ³	Rp 21,000.00	Rp 378,000.00	
2	Galian tanah pondasi footplat	58.32	m ³	Rp 21,000.00	Rp 1,224,720.00	
3	Galian tanah pondasi footplat	34.56	m ³	Rp 21,000.00	Rp 725,760.00	
4	Galian tanah pondasi footplat	136.00	m ³	Rp 21,000.00	Rp 2,856,000.00	
5	Galian tanah pondasi footplat	40.50	m ³	Rp 21,000.00	Rp 850,500.00	
6	Galian tanah pondasi footplat	14.00	m ³	Rp 21,000.00	Rp 294,000.00	
7	Galian tanah pondasi footplat	18.00	m ³	Rp 21,000.00	Rp 378,000.00	
8	Galian tanah pondasi footplat	39.42	m ³	Rp 21,000.00	Rp 827,738.10	
9	Galian tanah pondasi footplat	4.00	m ³	Rp 21,000.00	Rp 84,000.00	
10	Galian tanah pondasi CYCLO	49.50	m ³	Rp 21,000.00	Rp 1,039,500.00	
11	Galian tanah pondasi CYCLO	160.38	m ³	Rp 21,000.00	Rp 3,367,980.00	
12	Galian tanah pondasi CYCLO	95.04	m ³	Rp 21,000.00	Rp 1,995,840.00	
13	Galian tanah pondasi CYCLO	374.00	m ³	Rp 21,000.00	Rp 7,854,000.00	
14	Galian tanah pondasi CYCLO	111.38	m ³	Rp 21,000.00	Rp 2,338,875.00	
15	Galian tanah pondasi CYCLO	21.00	m ³	Rp 21,000.00	Rp 441,000.00	
16	Galian tanah pondasi CYCLO	49.50	m ³	Rp 21,000.00	Rp 1,039,500.00	
17	Galian tanah pondasi CYCLO	28.91	m ³	Rp 21,000.00	Rp 607,007.94	
18	Galian tanah pondasi CYCLO	22.00	m ³	Rp 21,000.00	Rp 462,000.00	
19	Galian Pondasi batu kali	158.00	m ³	Rp 21,000.00	Rp 3,318,000.00	
20	Urugan pasir bawah pondasi	28.80	m ³	Rp 87,400.00	Rp 2,517,120.00	
21	Urugan pasir bawah lantai t =	130.00	m ³	Rp 87,400.00	Rp 11,362,000.00	
22	Urugan tanah kembali pondas	12.90	m ³	Rp 7,400.00	Rp 95,489.60	
23	Urugan tanah kembali pondas	42.07	m ³	Rp 7,400.00	Rp 311,318.00	
24	Urugan tanah kembali pondas	26.57	m ³	Rp 7,400.00	Rp 196,647.60	
25	Urugan tanah kembali pondas	102.25	m ³	Rp 7,400.00	Rp 756,624.10	
26	Urugan tanah kembali pondas	31.01	m ³	Rp 7,400.00	Rp 229,503.60	
27	Urugan tanah kembali pondas	10.71	m ³	Rp 7,400.00	Rp 79,241.05	
28	Urugan tanah kembali pondas	13.69	m ³	Rp 7,400.00	Rp 101,291.20	
29	Urugan tanah kembali pondas	32.85	m ³	Rp 7,400.00	Rp 243,065.95	

25	Urugan tanah kembali pondasi	44.00	m ³	Rp	7,400.00	Rp	325,600.00	
26	Urugan tanah peninggian level	125.00	m ³	Rp	39,729.38	Rp	4,966,171.88	Rp 52,826,971.33
B.2	PEKERJAAN ANTI RAYAP							
1	Anti rayap galian pondasi foot	1375.00	m ²	Rp	15,126.96	Rp	20,799,564.84	
2	Anti rayap peninggian lantai	300.00	m ²	Rp	15,126.96	Rp	4,538,086.88	Rp 25,337,651.72
TOTAL BIAYA PEKERJAAN TANAH							Rp	78,164,623.05
C	PEKERJAAN BETON							
C.1	LANTAI SEMI-BASEMENT							
1	Cyclope bawah footplat F1 6	49.50	m ³	Rp	477,757.88	Rp	23,649,014.81	
2	Cyclope bawah footplat F2 6	160.38	m ³	Rp	477,757.88	Rp	76,622,807.99	
3	Cyclope bawah footplat F3 6	95.04	m ³	Rp	477,757.88	Rp	45,406,108.44	
4	Cyclope bawah footplat F4 6	374.00	m ³	Rp	477,757.88	Rp	178,681,445.25	
5	Cyclope bawah footplat F5 6	111.38	m ³	Rp	477,757.88	Rp	53,210,283.33	
6	Cyclope bawah footplat F6 6	21.00	m ³	Rp	477,757.88	Rp	10,032,915.38	
7	Cyclope bawah footplat F7 6	49.50	m ³	Rp	477,757.88	Rp	23,649,014.81	
8	Cyclope bawah footplat F8 6	28.91	m ³	Rp	477,757.88	Rp	13,809,658.26	
9	Cyclope bawah footplat FG 6	22.00	m ³	Rp	477,757.88	Rp	10,510,673.25	
10	Pasangan batu kali	158.43	m ³	Rp	336,200.00	Rp	53,264,434.96	
11	Cor footplat F1	5.10	m ³	Rp	2,436,700.00	Rp	12,417,423.20	
12	Cor footplat F2	16.25	m ³	Rp	2,354,300.00	Rp	38,257,375.00	
13	Cor footplat F3	7.99	m ³	Rp	2,418,200.00	Rp	19,311,745.20	
14	Cor footplat F4	33.75	m ³	Rp	1,905,800.00	Rp	64,327,420.30	
15	Cor footplat F5	9.49	m ³	Rp	2,418,200.00	Rp	22,939,045.20	
16	Cor footplat F6	3.29	m ³	Rp	2,418,200.00	Rp	7,960,109.85	
17	Cor footplat F7	4.31	m ³	Rp	2,418,200.00	Rp	10,427,278.40	
18	Cor footplat F8	6.57	m ³	Rp	2,418,200.00	Rp	15,886,002.17	
19	Cor footplat FG	2.00	m ³	Rp	2,418,200.00	Rp	4,836,400.00	
20	Cor sloof S1 300x600 f'c = 20	44.72	m³	Rp	2,298,500.00	Rp	102,787,494.93	
21	Cor sloof S2 300x600 f'c = 20	36.01	m ³	Rp	2,496,900.00	Rp	89,902,782.14	
22	Cor sloof S3 400x600 f'c = 20	1.61	m ³	Rp	2,253,200.00	Rp	3,633,960.96	
23	Cor kolom K1	5.12	m ³	Rp	2,983,600.00	Rp	15,276,032.00	
24	Cor kolom K2	14.08	m ³	Rp	4,413,400.00	Rp	62,140,672.00	
25	Cor kolom K3	1.28	m ³	Rp	3,010,100.00	Rp	3,852,928.00	
26	Cor kolom K4	14.56	m ³	Rp	3,392,200.00	Rp	49,390,432.00	
27	Cor kolom K5	1.92	m ³	Rp	3,218,100.00	Rp	6,178,752.00	
28	Cor kolom K6	7.68	m ³	Rp	3,823,800.00	Rp	29,366,784.00	
29	Cor kolom K7	5.28	m ³	Rp	4,581,400.00	Rp	24,189,792.00	
30	Cor kolom K9	0.80	m ³	Rp	4,932,300.00	Rp	3,945,840.00	
31	Dinding beton DB1	21.42	m ³	Rp	2,491,500.00	Rp	53,371,667.25	
32	Dinding beton DB2	7.34	m ³	Rp	3,075,500.00	Rp	22,576,092.19	
33	Dinding beton DT	4.19	m ³	Rp	2,465,400.00	Rp	10,323,862.50	
34	Cor balok B6	0.27	m ³	Rp	3,784,900.00	Rp	1,023,739.75	
35	Cor plat type A4 ram motor t=	6.05	m ³	Rp	2,841,300.00	Rp	17,189,865.00	
36	Balok Baja IWF	8662.50	kg	Rp	13,001.63	Rp	112,626,576.56	
37	Cor balok latieu 1 pc : 2 ps : 3	3.20	m ³	Rp	2,841,300.00	Rp	9,092,160.00	
38	Cor sloof praktis 1 pc : 2 ps :	4.20	m ³	Rp	2,841,300.00	Rp	11,933,460.00	
39	Lantai kerja	30.10	m3	Rp	350,168.00	Rp	10,540,056.80	Rp 1,314,002,049.09
C.2	LANTAI MEZZANINE SEMI-BASEMENT							
1	Cor kolom K1	3.90	m ³	Rp	2,983,600.00	Rp	11,647,974.40	
2	Cor kolom K2	10.74	m ³	Rp	4,413,400.00	Rp	47,382,262.40	
3	Cor kolom K3	0.98	m ³	Rp	3,010,100.00	Rp	2,937,857.60	

4	Cor kolom K4	14.52	m ³	Rp	3,392,200.00	Rp	49,247,959.60	
5	Cor kolom K5	1.46	m ³	Rp	3,218,100.00	Rp	4,711,298.40	
6	Cor kolom K6	4.39	m ³	Rp	3,823,800.00	Rp	16,794,129.60	
7	Cor kolom K7	4.03	m ³	Rp	4,581,400.00	Rp	18,444,716.40	
8	Cor kolom K9	0.61	m ³	Rp	4,932,300.00	Rp	3,008,703.00	
9	Dinding beton DB1	21.42	m ³	Rp	2,441,600.00	Rp	52,302,734.40	
10	Dinding beton DB2	7.34	m ³	Rp	3,045,700.00	Rp	22,357,341.56	
11	Dinding beton DT	4.19	m ³	Rp	2,441,600.00	Rp	10,224,200.00	
12	Cor balok B6	0.27	m ³	Rp	3,744,400.00	Rp	1,012,785.31	
13	Dinding beton DB1	20.56	m ³	Rp	2,441,600.00	Rp	50,210,625.02	
14	Dinding beton DB2	7.05	m ³	Rp	3,045,700.00	Rp	21,463,047.90	
15	Dinding beton DT	6.03	m ³	Rp	2,441,600.00	Rp	14,722,848.00	
16	Cor balok B6	0.27	m ³	Rp	3,744,400.00	Rp	1,012,785.31	
17	Cor balok B9	0.88	m ³	Rp	3,386,900.00	Rp	2,963,537.50	
18	Cor balok B12	0.23	m ³	Rp	4,540,100.00	Rp	1,021,522.50	
19	Cor balok B3	3.32	m ³	Rp	3,357,000.00	Rp	11,131,274.88	
20	Cor plat type A4 ram motor t=	4.54	m ³	Rp	2,841,300.00	Rp	12,899,502.00	
21	Cor plat type A2 lantai t = 120	23.96	m ³	Rp	3,190,800.00	Rp	76,451,568.00	
22	Cor kolom praktis 1 pc : 2 ps :	3.20	m ³	Rp	2,841,300.00	Rp	9,092,160.00	
23	Cor balok latieu 1 pc : 2 ps : 3	4.20	m ³	Rp	2,841,300.00	Rp	11,933,460.00	Rp 452,974,293.79
C.3 LANTAI MEZZANINE								
1	Cor kolom K1	4.22	m ³	Rp	2,955,900.00	Rp	12,485,721.60	
2	Cor kolom K2	11.62	m ³	Rp	4,373,000.00	Rp	50,796,768.00	
	Cor kolom K3	0.00	m ³	Rp	2,979,500.00	Rp	-	
4	Cor kolom K4	12.94	m ³	Rp	3,358,500.00	Rp	43,445,556.00	
5	Cor kolom K5	0.79	m ³	Rp	3,185,100.00	Rp	2,522,599.20	
6	Cor kolom K6	5.94	m ³	Rp	3,784,800.00	Rp	22,481,712.00	
7	Cor kolom K7	4.36	m ³	Rp	4,533,500.00	Rp	19,747,926.00	
8	Cor kolom K9	0.66	m ³	Rp	3,901,700.00	Rp	2,575,122.00	
9	Cor balok B2	8.06	m ³	Rp	3,660,300.00	Rp	29,516,659.20	
10	Cor balok B3	14.40	m ³	Rp	3,357,000.00	Rp	48,340,800.00	
11	Cor balok B4	29.63	m ³	Rp	2,747,900.00	Rp	81,414,781.20	
12	Cor balok B5	21.92	m ³	Rp	2,718,500.00	Rp	59,587,345.20	
13	Cor balok B6	0.27	m ³	Rp	3,744,400.00	Rp	1,024,018.51	
14	Cor balok B7	20.91	m ³	Rp	2,792,200.00	Rp	58,394,618.86	
15	Cor balok B10	9.60	m ³	Rp	2,696,600.00	Rp	25,887,360.00	
16	Cor balok DT	11.06	m ³	Rp	2,441,600.00	Rp	26,991,888.00	
17	Meja beton	2.20	m ³	Rp	2,696,600.00	Rp	5,932,520.00	
18	Balok bordes B9	8.81	m ³	Rp	3,386,900.00	Rp	2,743,389.00	
19	Balok bordes B12	0.26	m ³	Rp	4,540,100.00	Rp	1,180,426.00	
20	Cor plat type A4 lantai t=140 t	14.13	m ³	Rp	2,869,900.00	Rp	40,551,687.00	
21	Cor plat type A1 lantai t=140 t	121.87	m ³	Rp	2,477,500.00	Rp	301,932,925.00	
22	Cor kolom praktis 1 pc : 2 ps :	3.20	m'	Rp	2,792,200.00	Rp	8,935,040.00	
23	Cor balok latieu 1 pc : 2 ps : 3	4.20	m'	Rp	2,792,200.00	Rp	11,727,240.00	Rp 858,216,102.77
C.4 LANTAI 01								
1	Cor kolom K1	4.22	m ³	Rp	2,983,600.00	Rp	12,602,726.40	
2	Cor kolom K2	11.62	m ³	Rp	4,413,400.00	Rp	51,266,054.40	
3	Cor kolom K3	0.00	m ³	Rp	3,010,100.00	Rp	-	
4	Cor kolom K4	12.01	m ³	Rp	3,392,200.00	Rp	40,747,106.40	
5	Cor kolom K5	0.79	m ³	Rp	3,218,100.00	Rp	2,548,735.20	
6	Cor kolom K6	2.38	m ³	Rp	3,823,800.00	Rp	9,085,348.80	

7	Cor kolom K7	4.36	m ³	Rp	4,581,400.00	Rp	19,956,578.40	
8	Cor kolom K9	0.66	m ³	Rp	4,932,300.00	Rp	3,255,318.00	
9	Cor balok B2	3.84	m ³	Rp	3,694,800.00	Rp	14,188,032.00	
10	Cor balok B4	15.36	m ³	Rp	2,776,000.00	Rp	42,639,360.00	
11	Cor balok B5	16.02	m ³	Rp	2,746,400.00	Rp	43,997,328.00	
12	Cor balok B6	0.75	m ³	Rp	3,784,900.00	Rp	2,851,846.45	
13	Cor balok B7	11.07	m ³	Rp	2,822,400.00	Rp	31,241,935.87	
14	Cor balok B9	0.44	m ³	Rp	3,423,100.00	Rp	1,497,606.25	
15	Cor balok B12	1.03	m ³	Rp	4,585,800.00	Rp	4,711,909.50	
16	Cor balok DT	11.06	m ³	Rp	2,465,400.00	Rp	27,254,997.00	
17	Meja beton	3.25	m ³	Rp	2,822,400.00	Rp	9,172,800.00	
18	Cor balok bordes B6	0.27	m ³	Rp	3,784,900.00	Rp	1,021,923.00	
19	Cor balok bordes B9	0.80	m ³	Rp	3,423,100.00	Rp	2,738,480.00	
20	Cor balok bordes B12	0.26	m ³	Rp	4,585,800.00	Rp	1,192,308.00	
21	Cor plat type A4 lantai t=120 mm	9.56	m ³	Rp	2,869,900.00	Rp	27,421,894.50	
22	Cor plat type A1 lantai t=140 mm	27.77	m ³	Rp	2,477,500.00	Rp	68,787,787.50	
23	Cor kolom praktis 1 pc : 2 ps	3.20	m ³	Rp	2,822,400.00	Rp	9,031,680.00	
24	Cor balok latieu 1 pc : 2 ps : 3	4.20	m ³	Rp	2,822,400.00	Rp	11,854,080.00	Rp 439,065,835.67
C.5	LANTAI 02							
1	Cor kolom K1	2.11	m ³	Rp	2,983,600.00	Rp	6,301,363.20	
2	Cor kolom K2	11.62	m ³	Rp	4,413,400.00	Rp	51,266,054.40	
3	Cor kolom K3	0.00	m ³	Rp	3,043,800.00	Rp	-	
4	Cor kolom K4	12.01	m ³	Rp	3,429,200.00	Rp	41,191,550.40	
5	Cor kolom K5	0.79	m ³	Rp	3,254,300.00	Rp	2,577,405.60	
6	Cor kolom K6	0.00	m ³	Rp	3,866,700.00	Rp	-	
7	Cor kolom K7	4.36	m ³	Rp	4,634,000.00	Rp	20,185,704.00	
8	Cor kolom K8	1.06	m ³	Rp	3,979,500.00	Rp	4,202,352.00	
9	Cor kolom K9	0.66	m ³	Rp	4,986,100.00	Rp	3,290,826.00	
10	Cor balok B1	8.75	m ³	Rp	2,653,300.00	Rp	23,211,068.40	
11	Cor balok B2	8.48	m ³	Rp	3,694,800.00	Rp	31,346,683.20	
12	Cor balok B3	11.71	m ³	Rp	3,389,300.00	Rp	39,695,481.60	
13	Cor balok B4	25.92	m ³	Rp	2,776,000.00	Rp	71,953,920.00	
14	Cor balok B5	17.18	m ³	Rp	2,746,400.00	Rp	47,194,137.60	
15	Cor balok B6	5.16	m ³	Rp	3,784,900.00	Rp	19,524,179.56	
16	Cor balok B7	1.68	m ³	Rp	2,822,400.00	Rp	4,748,067.07	
17	Cor balok B8	1.68	m ³	Rp	2,941,000.00	Rp	4,940,880.00	
18	Cor balok B9	2.72	m ³	Rp	3,423,100.00	Rp	9,306,553.13	
19	Cor balok B10	10.60	m ³	Rp	2,724,200.00	Rp	28,865,623.20	
20	Cor balok B12	0.23	m ³	Rp	4,585,800.00	Rp	1,031,805.00	
21	Cor balok BT	3.60	m ³	Rp	4,293,900.00	Rp	15,439,790.93	
22	Cor balok DT	11.06	m ³	Rp	2,465,400.00	Rp	27,254,997.00	
23	Meja beton	3.25	m ³	Rp	2,724,200.00	Rp	8,853,650.00	
24	Cor balok bordes B6	0.27	m ³	Rp	3,829,400.00	Rp	1,033,938.00	
25	Cor balok bordes B9	0.80	m ³	Rp	3,462,900.00	Rp	2,770,320.00	
26	Cor balok bordes B12	0.26	m ³	Rp	4,636,100.00	Rp	1,205,386.00	
27	Cor plat type A3 lantai t=120 mm	12.72	m ³	Rp	3,223,100.00	Rp	40,997,735.31	
28	Cor plat type A1 lantai t=140 mm	94.28	m ³	Rp	2,477,500.00	Rp	233,578,774.33	
29	Cor kolom praktis 1 pc : 2 ps	3.20	m ³	Rp	2,724,200.00	Rp	8,717,440.00	
30	Cor balok latieu 1 pc : 2 ps : 3	4.20	m ³	Rp	2,724,200.00	Rp	11,441,640.00	Rp 762,127,325.91
C.6	LANTAI 03							
1	Cor kolom K1	2.11	m ³	Rp	2,983,600.00	Rp	6,301,363.20	

2	Cor kolom K2	11.62	m ³	Rp	4,413,400.00	Rp	51,266,054.40	
3	Cor kolom K3	0.00	m ³	Rp	3,080,800.00	Rp	-	
4	Cor kolom K4	12.01	m ³	Rp	3,469,900.00	Rp	41,680,438.80	
5	Cor kolom K5	0.79	m ³	Rp	3,294,100.00	Rp	2,608,927.20	
6	Cor kolom K6	0.00	m ³	Rp	3,913,800.00	Rp	-	
7	Cor kolom K7	4.36	m ³	Rp	4,691,900.00	Rp	20,437,916.40	
8	Cor kolom K8	1.06	m ³	Rp	4,024,400.00	Rp	4,249,766.40	
9	Cor kolom K9	0.66	m ³	Rp	5,045,200.00	Rp	3,329,832.00	
10	Cor balok B1	0.00	m ³	Rp	2,680,300.00	Rp	-	
11	Cor balok B2	8.06	m ³	Rp	3,732,700.00	Rp	30,100,492.80	
12	Cor balok B3	11.71	m ³	Rp	3,424,900.00	Rp	40,112,428.80	
13	Cor balok B4	27.84	m ³	Rp	2,806,800.00	Rp	78,141,312.00	
14	Cor balok B5	18.00	m ³	Rp	2,777,000.00	Rp	49,986,000.00	
15	Cor balok B6	0.61	m ³	Rp	3,829,400.00	Rp	2,343,592.80	
16	Cor balok B7	1.75	m ³	Rp	2,855,600.00	Rp	4,996,671.77	
17	Cor balok B8	1.68	m ³	Rp	2,972,800.00	Rp	4,994,304.00	
18	Cor balok B9	0.41	m ³	Rp	3,462,900.00	Rp	1,402,474.50	
19	Cor balok B10	10.60	m ³	Rp	2,754,700.00	Rp	29,188,801.20	
20	Cor balok B12	0.23	m ³	Rp	4,636,100.00	Rp	1,043,122.50	
21	Cor balok BT	3.75	m ³	Rp	4,347,300.00	Rp	16,292,593.58	
22	Cor balok DT	11.06	m ³	Rp	2,491,500.00	Rp	27,543,532.50	
23	Meja beton	3.25	m ³	Rp	2,754,700.00	Rp	8,952,775.00	
24	Cor balok bordes B6	0.27	m ³	Rp	3,829,400.00	Rp	1,033,938.00	
25	Cor balok bordes B9	0.80	m ³	Rp	3,462,900.00	Rp	2,770,320.00	
26	Cor balok bordes B12	0.26	m ³	Rp	4,636,100.00	Rp	1,205,386.00	
27	Cor plat lantai t=120 mm	0.00	m ³	Rp	3,223,100.00	Rp	-	
28	Cor plat type A1 lantai t=140 mm	99.88	m ³	Rp	2,506,000.00	Rp	250,299,280.00	
29	Cor kolom praktis 1 pc : 2 ps	3.20	m ³	Rp	2,855,600.00	Rp	9,137,920.00	
30	Cor balok latieu 1 pc : 2 ps	4.20	m ³	Rp	2,855,600.00	Rp	11,993,520.00	Rp 701,412,763.84
C.7 LANTAI 04								
1	Cor kolom K1	2.11	m ³	Rp	2,983,600.00	Rp	6,301,363.20	
2	Cor kolom K2	11.62	m ³	Rp	4,413,400.00	Rp	51,266,054.40	
3	Cor kolom K3	0.00	m ³	Rp	3,121,500.00	Rp	-	
4	Cor kolom K4	12.01	m ³	Rp	3,514,600.00	Rp	42,217,375.20	
5	Cor kolom K5	0.79	m ³	Rp	3,338,000.00	Rp	2,643,696.00	
6	Cor kolom K6	0.00	m ³	Rp	3,965,700.00	Rp	-	
7	Cor kolom K7	4.36	m ³	Rp	4,755,600.00	Rp	20,715,393.60	
8	Cor kolom K8	1.06	m ³	Rp	4,073,700.00	Rp	4,301,827.20	
9	Cor kolom K9	0.66	m ³	Rp	5,110,300.00	Rp	3,372,798.00	
10	Cor balok B1	0.00	m ³	Rp	2,709,900.00	Rp	-	
11	Cor balok B2	8.06	m ³	Rp	3,774,400.00	Rp	30,436,761.60	
12	Cor balok B3	9.79	m ³	Rp	3,464,000.00	Rp	33,919,488.00	
13	Cor balok B4	27.84	m ³	Rp	2,840,800.00	Rp	79,087,872.00	
14	Cor balok B5	19.92	m ³	Rp	2,810,700.00	Rp	55,989,144.00	
15	Cor balok B6	0.98	m ³	Rp	3,878,400.00	Rp	3,806,572.03	
16	Cor balok B7	1.75	m ³	Rp	2,892,100.00	Rp	5,060,538.74	
17	Cor balok B8	1.68	m ³	Rp	3,007,800.00	Rp	5,053,104.00	
18	Cor balok B9	0.41	m ³	Rp	3,506,600.00	Rp	1,420,173.00	
19	Cor balok B10	10.60	m ³	Rp	2,788,200.00	Rp	29,543,767.20	
20	Cor balok B12	0.23	m ³	Rp	4,691,400.00	Rp	1,055,565.00	
21	Cor balok BT	3.75	m ³	Rp	4,405,900.00	Rp	16,512,211.73	

22	Cor balok DT	11.06	m ³	Rp	2,491,500.00	Rp	27,543,532.50	
23	Meja beton	3.25	m ³	Rp	2,788,200.00	Rp	9,061,650.00	
24	Cor balok bordes B6	0.27	m ³	Rp	3,878,400.00	Rp	1,047,168.00	
25	Cor balok bordes B9	0.80	m ³	Rp	3,506,600.00	Rp	2,805,280.00	
26	Cor balok bordes B12	0.26	m ³	Rp	4,691,400.00	Rp	1,219,764.00	
27	Cor plat lantai t=120 mm	0.00	m ³	Rp	3,223,100.00	Rp	-	
28	Cor plat type A1 lantai t=140 mm	99.80	m ³	Rp	2,537,300.00	Rp	253,222,540.00	
29	Cor kolom praktis 1 pc : 2 ps : 3	3.20	m ³	Rp	2,788,200.00	Rp	8,922,240.00	
30	Cor balok latieu 1 pc : 2 ps : 3	4.20	m ³	Rp	2,788,200.00	Rp	11,710,440.00	Rp 708,236,319.40
C.8 LANTAI 05								
1	Cor kolom K1	0.00	m ³	Rp	2,983,600.00	Rp	-	
2	Cor kolom K2	0.46	m ³	Rp	4,413,400.00	Rp	2,033,694.72	
3	Cor kolom K3	0.00	m ³	Rp	3,121,500.00	Rp	-	
4	Cor kolom K4	0.20	m ³	Rp	3,514,600.00	Rp	708,543.36	
5	Cor kolom K5	0.17	m ³	Rp	3,338,000.00	Rp	576,806.40	
6	Cor kolom K6	0.00	m ³	Rp	3,965,700.00	Rp	-	
7	Cor kolom K7	0.95	m ³	Rp	4,755,600.00	Rp	4,519,722.24	
8	Cor kolom K10	2.07	m ³	Rp	4,838,000.00	Rp	10,032,076.80	
9	Cor kolom K11	0.04	m ³	Rp	7,278,600.00	Rp	327,537.00	
10	Cor balok B1	0.00	m ³	Rp	2,742,500.00	Rp	-	
11	Cor balok B2	3.84	m ³	Rp	3,820,300.00	Rp	14,669,952.00	
12	Cor balok B3	5.95	m ³	Rp	3,507,000.00	Rp	20,873,664.00	
13	Cor balok B4	24.00	m ³	Rp	2,878,100.00	Rp	69,074,400.00	
14	Cor balok B5	18.72	m ³	Rp	2,847,700.00	Rp	53,308,944.00	
15	Cor balok B6	0.98	m ³	Rp	3,932,300.00	Rp	3,859,473.80	
16	Cor balok B7	1.75	m ³	Rp	2,932,200.00	Rp	5,130,704.92	
17	Cor balok B8	1.68	m ³	Rp	3,046,300.00	Rp	5,117,784.00	
18	Cor balok B9	0.41	m ³	Rp	3,554,800.00	Rp	1,439,694.00	
19	Cor balok B10	8.68	m ³	Rp	2,825,000.00	Rp	24,509,700.00	
20	Cor balok B11	17.70	m ³	Rp	3,105,900.00	Rp	54,974,430.00	
21	Cor balok B12	0.23	m ³	Rp	4,752,300.00	Rp	1,069,267.50	
22	Cor balok BT	0.00	m ³	Rp	4,470,500.00	Rp	-	
23	Cor balok DT	11.06	m ³	Rp	2,491,500.00	Rp	27,543,532.50	
24	Meja beton	3.25	m ³	Rp	2,825,000.00	Rp	9,181,250.00	
25	Cor plat lantai t=120 mm	0.00	m ³	Rp	3,223,100.00	Rp	-	
26	Cor plat type A1 lantai t=140 mm	109.70	m ³	Rp	2,571,700.00	Rp	282,115,490.00	
27	Cor kolom praktis 1 pc : 2 ps : 3	3.20	m ³	Rp	2,825,000.00	Rp	9,040,000.00	
28	Cor balok latieu 1 pc : 2 ps : 3	4.20	m ³	Rp	2,825,000.00	Rp	11,865,000.00	Rp 611,971,667.24
C.9 LANTAI ELV +17,220								
1	Cor kolom K1	0.00	m ³	Rp	2,983,600.00	Rp	-	
2	Cor kolom K2	2.12	m ³	Rp	4,413,400.00	Rp	9,377,592.32	
3	Cor kolom K3	0.00	m ³	Rp	3,121,500.00	Rp	-	
4	Cor kolom K4	0.93	m ³	Rp	3,514,600.00	Rp	3,267,172.16	
5	Cor kolom K5	0.80	m ³	Rp	3,338,000.00	Rp	2,659,718.40	
6	Cor kolom K6	0.00	m ³	Rp	3,965,700.00	Rp	-	
7	Cor kolom K7	4.38	m ³	Rp	4,755,600.00	Rp	20,840,941.44	
8	Cor kolom K10	6.91	m ³	Rp	4,838,000.00	Rp	33,409,292.80	
9	Cor kolom K11	0.21	m ³	Rp	7,278,600.00	Rp	1,510,309.50	
10	Cor balok B1	0.00	m ³	Rp	2,742,500.00	Rp	-	
11	Cor balok B2	0.00	m ³	Rp	3,820,300.00	Rp	-	
12	Cor balok B3	0.96	m ³	Rp	3,507,000.00	Rp	3,366,720.00	

13	Cor balok B4	25.73	m ³	Rp	2,878,100.00	Rp	74,047,756.80	
14	Cor balok B5	9.11	m ³	Rp	2,847,700.00	Rp	25,953,937.80	
15	Cor balok B6	1.19	m ³	Rp	3,932,300.00	Rp	4,685,256.80	
16	Cor balok B7	1.30	m ³	Rp	2,932,200.00	Rp	3,811,214.92	
17	Cor balok B8	0.00	m ³	Rp	3,046,300.00	Rp	-	
18	Cor balok B9	0.41	m ³	Rp	3,554,800.00	Rp	1,439,694.00	
19	Cor balok B10	1.92	m ³	Rp	2,825,000.00	Rp	5,424,000.00	
20	Cor balok B11	0.00	m ³	Rp	3,105,900.00	Rp	-	
21	Cor balok B12	0.40	m ³	Rp	4,752,300.00	Rp	1,906,860.38	
22	Cor balok B13	0.23	m ³	Rp	4,740,000.00	Rp	1,066,500.00	
23	Cor balok BT	0.00	m ³	Rp	4,470,500.00	Rp	-	
24	Cor balok DT	11.06	m ³	Rp	2,491,500.00	Rp	27,543,532.50	
25	Cor plat lantai t=120 mm	0.00	m ³	Rp	3,223,100.00	Rp	-	
26	Cor plat type A1 lantai t=140 mm	42.00	m ³	Rp	2,571,700.00	Rp	108,011,400.00	
27	Cor kolom praktis 1 pc : 2 ps	3.20	m ³	Rp	2,825,000.00	Rp	9,040,000.00	
28	Cor balok latieu 1 pc : 2 ps : 3	3.42	m ³	Rp	2,825,000.00	Rp	9,661,500.00	Rp 347,023,399.82
C.10 LANTAI ELV.20,540								
1	Cor balok B1	0.00	m ³	Rp	2,742,500.00	Rp	-	
2	Cor balok B2	0.00	m ³	Rp	3,820,300.00	Rp	-	
3	Cor balok B3	2.77	m ³	Rp	3,507,000.00	Rp	9,721,404.00	
4	Cor balok B4	16.53	m ³	Rp	2,878,100.00	Rp	47,574,993.00	
5	Cor balok B5	9.57	m ³	Rp	2,847,700.00	Rp	27,252,489.00	
6	Cor balok B6	0.98	m ³	Rp	3,932,300.00	Rp	3,859,473.80	
7	Cor balok B7	1.30	m ³	Rp	2,932,200.00	Rp	3,811,214.92	
8	Cor balok B8	0.00	m ³	Rp	3,046,300.00	Rp	-	
9	Cor balok B9	0.41	m ³	Rp	3,554,800.00	Rp	1,439,694.00	
10	Cor balok B10	1.92	m ³	Rp	2,825,000.00	Rp	5,424,000.00	
11	Cor balok B11	0.00	m ³	Rp	3,105,900.00	Rp	-	
12	Cor balok B12	1.05	m ³	Rp	4,752,300.00	Rp	4,989,915.00	
13	Cor balok B13	0.59	m ³	Rp	4,740,000.00	Rp	2,805,369.00	
14	Cor balok BT	0.00	m ³	Rp	4,470,500.00	Rp	-	
15	Cor balok DT	0.00	m ³	Rp	2,491,500.00	Rp	-	
16	Cor plat type A3 lantai t=120 mm	40.80	m ³	Rp	3,340,600.00	Rp	136,296,480.00	
17	Cor plat lantai t=140 mm		m ³	Rp	2,571,700.00	Rp	-	
18	Cor kolom praktis 1 pc : 2 ps	3.52	m ³	Rp	2,825,000.00	Rp	9,944,000.00	
19	Cor balok latieu	2.72	m ³	Rp	2,825,000.00	Rp	7,684,000.00	Rp 260,803,032.72
TOTAL BIAYA PEKERJAAN BETON							Rp 6,455,832,790.34	
F PEKERJAAN PINTU DAN JENDELA								
LANTAI 01								
1	Pintu jendela Almunium PJ01	2.00	unit	Rp	10,101,391.72	Rp	20,202,783.45	
2	Pintu utama PU01	1.00	unit	Rp	11,127,286.16	Rp	11,127,286.16	
3	Pintu Aluminium P01	2.00	unit	Rp	4,757,615.64	Rp	9,515,231.28	
4	Jendela almunium J03	17.00	unit	Rp	2,618,714.27	Rp	44,518,142.57	
5	Jendela almunium J04	2.00	unit	Rp	866,479.34	Rp	1,732,958.68	
6	Jendela almunium J06	1.00	unit	Rp	8,641,993.96	Rp	8,641,993.96	
7	Boven Almunium BV02	36.00	unit	Rp	425,131.59	Rp	15,304,737.37	
8	Boven Almunium BV03	12.00	unit	Rp	1,083,456.96	Rp	13,001,483.57	
9	Boven Almunium BV04	1.00	unit	Rp	1,244,827.99	Rp	1,244,827.99	125,289,445.04
LANTAI 02								
1	Pintu jendela Almunium PJ01	3.00	unit	Rp	10,101,391.72	Rp	30,304,175.17	
2	Pintu jendela Almunium PJ02	10.00	unit	Rp	7,420,907.64	Rp	74,209,076.43	

3	Pintu jendela Almunium PJ03	2.00	unit	Rp	4,077,496.75	Rp	8,154,993.49	
4	Pintu Aluminum P01	3.00	unit	Rp	4,757,615.64	Rp	14,272,846.92	
5	Pintu Aluminum P02	2.00	unit	Rp	2,633,318.16	Rp	5,266,636.32	
6	Pintu Aluminum P03	2.00	unit	Rp	2,523,648.85	Rp	5,047,297.70	
7	Pintu Aluminum P04	6.00	unit	Rp	2,207,973.31	Rp	13,247,839.89	
8	Pintu Shaft SH	2.00	unit	Rp	1,720,079.64	Rp	3,440,159.28	
9	Jendela almunium J01	3.00	unit	Rp	4,904,112.72	Rp	14,712,338.17	
10	Jendela almunium J02	2.00	unit	Rp	6,228,323.72	Rp	12,456,647.45	
11	Jendela almunium J03	19.00	unit	Rp	2,618,714.27	Rp	49,755,571.10	
12	Jendela almunium J05	2.00	unit	Rp	2,378,318.10	Rp	4,756,636.20	
13	Boven Almunium BV01	2.00	unit	Rp	619,964.35	Rp	1,239,928.71	
14	Boven Almunium BV02	36.00	unit	Rp	425,131.59	Rp	15,304,737.37	
15	Boven Almunium BV03	12.00	unit	Rp	1,083,456.96	Rp	13,001,483.57	Rp 265,170,367.78
LANTAI 03								
1	Pintu jendela Almunium PJ01	3.00	unit	Rp	4,904,112.72	Rp	14,712,338.17	
2	Pintu jendela Almunium PJ02	6.00	unit	Rp	6,228,323.72	Rp	37,369,942.35	
3	Pintu jendela Almunium PJ03	1.00	unit	Rp	2,618,714.27	Rp	2,618,714.27	
4	Pintu jendela Almunium PJ04	2.00	unit	Rp	866,479.34	Rp	1,732,958.68	
5	Pintu Aluminum P01	1.00	unit	Rp	4,757,615.64	Rp	4,757,615.64	
6	Pintu Aluminum P02	4.00	unit	Rp	2,633,318.16	Rp	10,533,272.64	
7	Pintu Aluminum P03	2.00	unit	Rp	2,523,648.85	Rp	5,047,297.70	
8	Pintu Aluminum P04	6.00	unit	Rp	2,207,973.31	Rp	13,247,839.89	
9	Pintu Shaft SH	2.00	unit	Rp	1,720,079.64	Rp	3,440,159.28	
10	Jendela almunium J02	1.00	unit	Rp	6,228,323.72	Rp	6,228,323.72	
11	Jendela almunium J03	21.00	unit	Rp	2,618,714.27	Rp	54,992,999.64	
12	Boven Almunium BV01	2.00	unit	Rp	619,964.35	Rp	1,239,928.71	
13	Boven Almunium BV02	36.00	unit	Rp	425,131.59	Rp	15,304,737.37	
14	Boven Almunium BV03	11.00	unit	Rp	1,083,456.96	Rp	11,918,026.61	Rp 183,144,154.67
TOTAL BIAYA PINTU DAN JENDELA							Rp	573,603,967.48
G	PEKERJAAN PLAFON DAN PARTISI							
LANTAI 01								
1	Plafon gypsum t = 9 mm rang	60.80	m²	Rp	89,500.00	Rp	5,441,600.00	
2	List plafon gypsum C10	31.30	m'	Rp	14,847.00	Rp	464,711.10	
3	Frame dudukan lampu TL	1.00	ls	Rp	1,000,000.00	Rp	1,000,000.00	
4	Penggantung plafon	1.00	ls	Rp	250,000.00	Rp	250,000.00	
5	Mainhole	1.00	unit	Rp	250,000.00	Rp	250,000.00	Rp 7,406,311.10
LANTAI 02								
1	Plafon gypsum rangka metal	60.80	m²	Rp	89,500.00	Rp	5,441,600.00	
2	List plafon gypsum C10	31.30	m'	Rp	14,847.00	Rp	464,711.10	
3	Frame dudukan lampu TL	1.00	ls	Rp	1,000,000.00	Rp	1,000,000.00	
4	Penggantung plafon	1.00	ls	Rp	250,000.00	Rp	250,000.00	
5	Mainhole	4.00	unit	Rp	250,000.00	Rp	1,000,000.00	Rp 8,156,311.10
LANTAI 03								
1	Plafon gypsum rangka metal	841.50	m²	Rp	85,500.00	Rp	71,947,822.50	
2	Plafon teakwood rangka meta	110.51	m²	Rp	110,000.00	Rp	12,155,550.00	
3	Plafon tritisan gypsum rangka	198.00	m²	Rp	87,500.00	Rp	17,325,000.00	
4	List plafon gypsum C10	467.56	m'	Rp	14,847.00	Rp	6,941,863.32	
5	Frame dudukan lampu TL	1.00	ls	Rp	1,000,000.00	Rp	1,000,000.00	
6	Penggantung plafon	1.00	ls	Rp	2,500,000.00	Rp	2,500,000.00	
7	Perkuatan rangka plafon	1.00	ls	Rp	1,500,000.00	Rp	1,500,000.00	
8	Mainhole	4.00	unit	Rp	250,000.00	Rp	1,000,000.00	Rp 114,370,235.82

TOTAL BIAYA PLAFON						Rp	129,932,858.02
H	PEKERJAAN KERAMIK						
	LANTAI 01						
1	Keramik tangga 400x400 Seku	60.05	m ²	Rp	221,700.68	Rp	13,312,754.19
2	Keramik Lantai 400x400 lobby	75.00	m ²	Rp	221,700.68	Rp	16,627,550.63
3	Stepnoising tangga 80x400	97.50	m ²	Rp	37,743.30	Rp	3,679,971.75
	LANTAI 02						
1	Keramik tangga 400x400 Seku	60.05	m ²	Rp	211,574.21	Rp	12,704,677.07
2	Keramik Lantai 400x400 lobby	54.00	m ²	Rp	211,574.21	Rp	11,425,007.48
3	Stepnoising tangga 80x400	97.50	m ²	Rp	37,743.30	Rp	3,679,971.75
	LANTAI 03						
1	Keramik lantai 400x400 Seku	755.39	m ²	Rp	212,824.71	Rp	160,766,590.68
2	Keramik lantai 400x400 tekstu	169.00	m ²	Rp	224,326.73	Rp	37,911,216.53
3	Keramik lantai km/wc 200x20	34.00	m ²	Rp	125,114.85	Rp	4,253,904.90
4	Keramik dinding km/wc 200x2	115.92	m ²	Rp	128,973.60	Rp	14,950,619.71
5	Plint keramik 100x400	467.56	m'	Rp	58,701.98	Rp	27,446,698.94
6	Keramik list border kamar ma	64.40	m'	Rp	79,882.53	Rp	5,144,434.93
	TOTAL BIAYA PEKERJAAN KERAMIK						Rp 311,903,398.55
I	PEKERJAAN PENGECATAN						
	LANTAI 01						
1	Pengecatan dinding luar seku	529.54	m ²	Rp	20,686.84	Rp	10,954,507.93
2	Pengecatan Sunshading can	106.20	m ²	Rp	20,686.84	Rp	2,196,942.14
3	Pengecatan sunshading dan t	310.75	m ²	Rp	20,686.84	Rp	6,428,476.13
4	Pengecatan plafon sekualitas	60.80	m ²	Rp	9,840.34	Rp	598,292.52
5	Pengecatan list plafon sekual	3.13	m ²	Rp	9,840.34	Rp	30,800.26
6	Pengecatan waterproofing se	177.52	m ²	Rp	43,681.84	Rp	7,754,399.79
	LANTAI 02						
1	Pengecatan dinding luar seku	529.54	m ²	Rp	20,983.01	Rp	11,111,344.44
2	Pengecatan sunshading dan t	310.75	m ²	Rp	20,983.01	Rp	6,520,513.10
3	Pengecatan plafon sekualitas	60.80	m ²	Rp	10,136.51	Rp	616,299.96
4	Pengecatan list plafon sekual	3.13	m ²	Rp	10,136.51	Rp	31,727.28
5	Pengecatan waterproofing se	222.92	m ²	Rp	43,681.84	Rp	9,737,555.22
	LANTAI 03						
1	Pengecatan dinding dalam se	1396.58	m ²	Rp	17,956.84	Rp	25,078,160.12
2	Pengecatan dinding luar seku	529.54	m ²	Rp	21,308.81	Rp	11,283,864.60
3	Pengecatan kolom sekualitas	172.80	m ²	Rp	21,308.81	Rp	3,682,161.50
4	Pengecatan talang + lisplang	653.50	m ²	Rp	21,308.81	Rp	13,925,346.69
5	Pengecatan lispank woodplar	264.00	m ²	Rp	21,308.81	Rp	5,625,524.52
6	Pengecatan plafon sekualitas	841.50	m ²	Rp	10,462.31	Rp	8,803,977.35
7	Finishing plafon teakwood de	110.51	m ²	Rp	65,000.00	Rp	7,182,825.00
8	Pengecatan list plafon sekual	19.80	m ²	Rp	10,462.31	Rp	207,153.64
9	Pengecatan waterproofing km	803.42	m ²	Rp	43,681.84	Rp	35,094,949.25
	TOTAL BIAYA PENGECATAN						Rp 166,864,821.43
	TOTAL BIAYA PEKERJAAN STRUKTUR						Rp 6,566,289,103.39



Data Proyek Pembangunan

Gedung FISIP Tahap II UAJY,

Tahun 2010

DAFTAR REKAPITULASI BIAYA

PROYEK :PENGEMBANGAN KAMPUS UNIVERSITAS ATMA JAYA YOGYAKARTA
PEKERJAAN :PEMBANGUNAN GEDUNG FISIP TAHAP II
LOKASI :JALAN BABARSARI No. 6 YOGYAKARTA
TAHUN : 2010

NO.	JENIS PEKERJAAN	JUMLAH HARGA
		(Rp.)
I	PEKERJAAN PERSIAPAN DAN TANAH	170,040,615.66
II	PEKERJAAN BETON BERTULANG	
A.	PONDASI DAN DINDING PENAHAN TANAH	342,541,634.00
B.	LANTAI BASEMENT	294,949,727.00
C.	LANTAI 1	431,438,682.00
D.	LANTAI 2	391,953,963.00
E.	LANTAI 3	352,709,724.00
F.	LANTAI 4	342,446,010.00
G.	LANTAI DAG DAN RUANG LIFT	135,983,768.00
H.	TALANG DAN ATAP	94,297,495.00
III	PEKERJAAN RANGKA DAN PENUTUP ATAP	191,340,891.00
IV	PEKERJAAN KANOPI	66,538,693.00
V	PEKERJAAN PINTU, JENDELA, DAN PARTISI	894,755,743.00
VI	PEKERJAAN PLAFON DAN RAK CAHAYA	457,699,209.00
VII	PEKERJAAN LANTAI DAN DINDING KERAMIK	327,101,143.00
VIII	PEKERJAAN PASANGAN BATA DAN RAILING	398,913,541.00
IX	PEKERJAAN CAT	103,645,734.00
X	PEKERJAAN SANITARY FIXTURES	112,083,106.00
XII	PEKERJAAN DRAINASI	98,080,694.00
XIII	PERKERJAAN PLUMBING	
A.	INSTALASI AIR BERSIH	65,917,228.00
B.	INSTALASI AIR KOTOR	21,887,399.00
C.	INSTALASI AIR KOTORAN	29,960,064.00
XIV	PEKERJAAN LISTRIK	199,349,000.00
XV	PEKERJAAN PENANGKAL PETIR	10,017,389.00
XVI	PEKERJAAN PENGINDERA DAN PENANGKAL KEBAKARAN	88,341,342.00
XVII	PEKERJAAN LAIN-LAIN	69,053,839.00
XVIII	PEKERJAAN TAMBAH KURANG	153,127,847.00
	TOTAL	5,844,174,480.66
	JASA 7 %	409,092,213.65
	JUMLAH	6,253,266,694.30
	PPN 10 %	625,326,669.43
	JUMLAH	6,878,593,363.73
	IMB	30,655,671.00

		ASURANSI:	
		C A R	9,342,680.00
		ASTEK	20,437,114.00
		P A (7 orang)	12,250,000.00
		JUMLAH	6,951,278,828.73
		PEMBULATAN	6,951,000,000.00

Yogyakarta, 7 September 2010
PT. Rahayu Trade and Contractor

Ir. Jacobus Wiryawan
Direktur Utama



BILL OF QUANTITY PEKERJAAN STRUKTUR

PROYEK
PENGEMBANGAN KAMPUS UAJY
JL. BABARSARI NO 6 YOGYAKARTA
TH. 2010

No.	ITEM PEKERJAAN	VOL	SAT	HARGA SATUAN	SUB JUMLAH	TOTAL
I	PEKERJAAN PERSIAPAN DAN TANAH					
1	Pembongkaran Bangunan Lama	1.00	ls	Rp 1,800,000.00	Rp 1,800,000.00	
2	Air dan listrik kerja	1.00	ls	5,000,000.00	Rp 5,000,000.00	
3	Pembersihan lokasi kerja/land clearenc	1.00	ls	Rp 2,625,000.00	Rp 2,625,000.00	
4	Brak direksi keet dan gudang termasuk MCK sementara	30.20	m2	Rp 330,228.47	Rp 9,972,899.79	
5	Pagar pengaman proyek (sewa)	54.80	m'	Rp 68,423.00	Rp 3,749,580.40	
6	Pengukuran dan Pemasangan bouwplank	107.00	m'	Rp 36,335.00	Rp 3,887,845.00	
7	Galian dan Buangan Tanah	4458.34	m3	Rp 24,135.00	Rp 107,601,915.23	
8	Lantai Kerja t = 7 cm (1:3:5)	29.41	m3	Rp 348,151.00	Rp 10,240,165.36	
9	Urug Tanah Kembali	3495.14	m3	Rp 6,391.00	Rp 22,337,414.18	
10	Urug Pasir t = 10 cm	50.78	m3	Rp 55,650.00	Rp 2,825,795.70	
						Rp 170,040,615.66
	TOTAL BIAYA PEKERJAAN PERSIAPAN					
II	PEKERJAAN BETON BERTULANG					
A	PONDASI, DINDING PENAHAN TANAH DAN SLOOF					
1	Pondasi P1	46.20	m³	Rp 1,268,313.00	Rp 58,596,060.60	
2	Pondasi P2	24.19	m³	Rp 1,472,448.00	Rp 35,621,462.02	
3	Pondasi P3	3.40	m³	Rp 1,316,099.00	Rp 4,474,736.60	
4	Pondasi P4	2.40	m³	Rp 1,832,080.00	Rp 4,396,992.00	
5	Pondasi P5	1.68	m³	Rp 1,532,102.00	Rp 2,573,931.36	
6	Pondasi PG	12.08	m³	Rp 1,391,977.00	Rp 16,808,122.28	
7	Pondasi Tangga	1.33	m³	Rp 1,297,648.00	Rp 1,722,238.43	
8	Pondasi Dinding Penahan Tanah	34.65	m³	Rp 1,297,648.00	Rp 44,963,503.20	
9	Dinding Penahan Tanah	49.90	m³	Rp 1,834,671.00	Rp 91,542,744.22	
10	Sirip Dinding Penahan Tanah	6.24	m³	Rp 2,797,387.00	Rp 17,455,694.88	
11	Sloof S1	7.86	m³	Rp 2,735,749.00	Rp 21,494,779.89	
12	Sloof S2	18.68	m³	Rp 2,295,742.00	Rp 42,893,413.95	
						Rp 342,543,679.42
B	LANTAI BASEMENT					
1	Kolom K1	19.49	m³	Rp 4,089,024.00	Rp 79,674,632.64	
2	Kolom K2	5.00	m³	Rp 3,398,522.00	Rp 16,975,617.39	
3	Kolom K3	8.33	m³	Rp 4,620,344.00	Rp 38,464,363.80	
4	Kolom K4	15.26	m³	Rp 3,663,136.00	Rp 55,908,613.20	
5	Kolom K5	1.82	m³	Rp 3,446,363.00	Rp 6,286,166.11	
6	Kolom K5 Tangga Luar	1.44	m³	Rp 3,446,363.00	Rp 4,962,762.72	
7	Kolom K6	1.03	m³	Rp 3,024,531.00	Rp 3,103,168.81	
8	Kolom K8	5.70	m³	Rp 4,426,580.00	Rp 25,215,570.31	
9	Plat Tangga, Bordes, dan Balok Bordes	4.45	m³	Rp 2,387,792.00	Rp 10,615,884.45	
10	Pit Lift	2.81	m³	Rp 1,857,454.00	Rp 5,221,303.19	
11	Plat Lantai Rabat Beton	44.12	m³	Rp 1,099,812.00	Rp 48,521,505.82	

						Rp 294,949,588.44
C	LANTAI 1					
1	Kolom K1	14.40	m ³	Rp 4,089,024.00	Rp 58,881,945.60	
2	Kolom K3	6.00	m ³	Rp 4,620,344.00	Rp 27,722,064.00	
3	Kolom K4	9.00	m ³	Rp 3,663,136.00	Rp 32,968,224.00	
4	Kolom K5	1.28	m ³	Rp 3,446,363.00	Rp 4,411,344.64	
5	Kolom K7	3.14	m ³	Rp 2,549,744.00	Rp 8,013,590.42	
6	Kolom K8	5.50	m ³	Rp 4,426,580.00	Rp 24,346,190.00	
7	Balok B1	2.98	m ³	Rp 2,260,997.00	Rp 6,747,719.45	
8	Balok B2	0.85	m ³	Rp 3,165,945.00	Rp 2,697,385.14	
9	Balok B3	7.11	m ³	Rp 3,117,045.00	Rp 22,166,865.52	
10	Balok B4	14.18	m ³	Rp 3,374,337.00	Rp 47,831,226.98	
11	Balok B5	0.24	m ³	Rp 3,096,901.00	Rp 743,256.24	
12	Balok B6	1.87	m ³	Rp 3,293,315.00	Rp 6,165,085.68	
13	Balok B7	8.02	m ³	Rp 3,313,794.00	Rp 26,573,314.09	
14	Balok B10	0.27	m ³	Rp 2,552,488.00	Rp 689,171.76	
15	Balok B11	0.45	m ³	Rp 2,656,778.00	Rp 1,195,550.10	
16	Balok B12	1.01	m ³	Rp 3,870,222.00	Rp 3,901,183.78	
17	Balok BA1	0.10	m ³	Rp 3,339,720.00	Rp 340,651.44	
18	Balok BA2	2.59	m ³	Rp 2,737,208.00	Rp 7,094,843.14	
19	Balok BA3	10.44	m ³	Rp 2,274,236.00	Rp 23,743,023.84	
20	Balok BK1	0.73	m ³	Rp 3,931,062.00	Rp 2,859,847.61	
21	Balok BL1	1.10	m³	Rp 2,489,543.00	Rp 2,738,497.30	
22	Balok BL2	0.89	m ³	Rp 2,345,267.00	Rp 2,081,424.46	
23	Balok BL5	0.23	m ³	Rp 3,030,119.00	Rp 690,867.13	
24	Balok BKR	0.54	m ³	Rp 2,344,984.00	Rp 1,266,291.36	
25	Pelat Tangga, Bordes, dan Balok Bordes	4.45	m ³	Rp 2,387,792.00	Rp 10,615,884.45	
26	Balok BTG	2.31	m ³	Rp 1,857,454.00	Rp 4,290,718.74	
27	Anak Tangga Luar Selatan	3.56	m³	Rp 2,387,792.00	Rp 8,510,090.69	
28	Tangga Luar Timur	1.59	m ³	Rp 2,387,792.00	Rp 3,798,977.07	
29	Ramp	2.42	m ³	Rp 1,374,993.00	Rp 3,326,933.06	
30	Pelat Lantai Tipe-A	12.66	m ³	Rp 1,913,261.00	Rp 24,229,919.96	
31	Pelat Lantai Tipe-B	30.25	m ³	Rp 2,009,754.00	Rp 60,796,666.30	
						Rp 431,438,753.93
D	LANTAI 2					
1	Kolom K2	14.40	m ³	Rp 4,120,270.00	Rp 59,331,888.00	
2	Kolom K4	15.00	m ³	Rp 3,693,100.00	Rp 55,396,500.00	
3	Kolom K5	1.28	m ³	Rp 3,478,025.00	Rp 4,451,872.00	
4	Kolom K7	3.14	m³	Rp 2,567,180.00	Rp 8,068,390.02	
5	Kolom K8	0.39	m ³	Rp 4,441,973.00	Rp 1,745,251.19	
6	Balok B1	2.98	m ³	Rp 2,285,197.00	Rp 6,819,941.93	
7	Balok B2	2.82	m ³	Rp 3,194,886.00	Rp 9,009,578.52	
8	Balok B3	7.11	m ³	Rp 3,145,131.00	Rp 22,366,599.11	
9	Balok B4	13.88	m ³	Rp 3,145,131.00	Rp 43,666,998.80	
10	Balok B6	1.87	m ³	Rp 3,322,924.00	Rp 6,220,513.73	
11	Balok B7	7.10	m ³	Rp 3,342,538.00	Rp 23,715,307.11	
12	Balok BA1	0.10	m ³	Rp 3,374,966.00	Rp 344,246.53	
13	Balok BA2	4.86	m ³	Rp 2,763,903.00	Rp 13,432,568.58	
14	Balok BA3	10.44	m ³	Rp 2,299,024.00	Rp 24,001,810.56	
15	Balok BK1	1.54	m ³	Rp 3,963,307.00	Rp 6,093,584.51	
16	Balok BL1	1.10	m ³	Rp 2,516,110.00	Rp 2,767,721.00	

17	Balok BL2	1.61	m ³	Rp 2,371,078.00	Rp 3,823,363.28	
18	Pelat Tangga, Bordes, dan Balok Bordes	4.45	m ³	Rp 2,411,477.00	Rp 10,721,185.59	
19	Pelat Lantai Tipe-A	7.89	m³	Rp 1,934,186.00	Rp 15,259,567.03	
20	Pelat Lantai Tipe-B	34.08	m ³	Rp 2,031,184.00	Rp 69,221,328.89	
21	Pelat Lantai Tipe-C	2.20	m³	Rp 2,501,672.00	Rp 5,496,173.38	
						Rp 391,954,389.77
E	LANTAI 3					
1	Kolom K2	14.40	m ³	Rp 3,439,965.00	Rp 49,535,496.00	
2	Kolom K4	15.00	m ³	Rp 3,723,064.00	Rp 55,845,960.00	
3	Kolom K5	1.28	m ³	Rp 3,493,856.00	Rp 4,472,135.68	
4	Kolom K8	3.14	m³	Rp 4,449,670.00	Rp 13,984,867.84	
5	Balok B2	2.82	m ³	Rp 3,209,357.00	Rp 9,050,386.74	
6	Balok B3	7.11	m ³	Rp 3,159,175.00	Rp 22,466,473.01	
7	Balok B4	11.91	m ³	Rp 3,418,330.00	Rp 40,712,310.30	
8	Balok B6	1.87	m ³	Rp 3,337,728.00	Rp 6,248,226.82	
9	Balok B7	7.10	m ³	Rp 3,356,910.00	Rp 23,817,276.45	
10	Balok BA1	0.10	m ³	Rp 3,392,589.00	Rp 346,044.08	
11	Balok BA2	3.49	m³	Rp 2,777,251.00	Rp 9,698,160.49	
12	Balok BA3	10.44	m ³	Rp 2,311,419.00	Rp 24,131,214.36	
13	Balok BA4	0.14	m ³	Rp 2,770,294.00	Rp 387,841.16	
14	Balok BK1	0.44	m ³	Rp 3,979,430.00	Rp 1,731,052.05	
15	Balok BL2	0.89	m ³	Rp 2,383,983.00	Rp 2,115,784.91	
16	Balok BL3	0.38	m ³	Rp 2,463,104.00	Rp 923,664.00	
17	Pelat Tangga, Bordes, dan Balok Bordes	4.45	m ³	Rp 2,423,319.00	Rp 10,773,833.94	
18	Pelat Lantai Tipe-A	7.89	m ³	Rp 1,944,648.00	Rp 15,342,105.93	
19	Pelat Lantai Tipe-B	29.94	m ³	Rp 2,041,899.00	Rp 61,127,105.22	
						Rp 352,709,938.99
F	LANTAI 4					
1	Kolom K4	12.00	m ³	Rp 3,723,064.00	Rp 44,676,768.00	
2	Kolom K5	6.40	m ³	Rp 3,509,687.00	Rp 22,461,996.80	
3	Kolom K8	6.29	m ³	Rp 4,457,366.00	Rp 28,017,665.47	
4	Balok B2	2.82	m³	Rp 3,223,827.00	Rp 9,091,192.14	
5	Balok B3	7.11	m ³	Rp 3,173,218.00	Rp 22,566,339.81	
6	Balok B4	11.91	m ³	Rp 3,432,995.00	Rp 40,886,970.45	
7	Balok B6	1.87	m ³	Rp 3,352,532.00	Rp 6,275,939.90	
8	Balok B7	7.10	m ³	Rp 3,371,282.00	Rp 23,919,245.79	
9	Balok BA1	0.10	m ³	Rp 3,410,212.00	Rp 347,841.62	
10	Balok BA2	3.49	m ³	Rp 2,790,598.00	Rp 9,744,768.22	
11	Balok BA3	10.44	m³	Rp 2,323,813.00	Rp 24,260,607.72	
12	Balok BK1	1.40	m ³	Rp 3,995,553.00	Rp 5,573,796.44	
13	Balok BL2	0.89	m ³	Rp 2,396,889.00	Rp 2,127,238.99	
14	Balok BL3	3.44	m ³	Rp 2,477,612.00	Rp 8,522,985.28	
15	Pelat Tangga, Bordes, dan Balok Bordes	4.45	m ³	Rp 2,435,162.00	Rp 10,826,486.74	
16	Pelat Lantai Tipe-A	7.89	m ³	Rp 1,955,110.00	Rp 15,424,644.83	
17	Pelat Lantai Tipe-B	32.99	m ³	Rp 2,052,614.00	Rp 67,721,483.18	
						Rp 342,445,971.37
G	LANTAI 5					
1	Kolom K4	10.00	m ³	Rp 3,738,047.00	Rp 37,380,470.00	
2	Kolom K5	5.80	m ³	Rp 4,413,400.00	Rp 25,597,720.00	
3	Kolom K8	6.29	m ³	Rp 3,010,100.00	Rp 18,920,585.57	
4	Balok B2	2.82	m³	Rp 3,392,200.00	Rp 9,566,004.00	

5	Balok B3	7.11	m ³	Rp 3,218,100.00	Rp 22,885,518.15	
6	Balok B4	10.88	m ³	Rp 3,823,800.00	Rp 41,602,944.00	
7	Balok B6	1.87	m ³	Rp 4,581,400.00	Rp 8,576,380.80	
8	Balok B7	7.10	m ³	Rp 4,932,300.00	Rp 34,994,668.50	
9	Balok BA1	0.10	m ³	Rp 3,694,800.00	Rp 376,869.60	
10	Balok BA2	3.49	m ³	Rp 2,776,000.00	Rp 9,693,792.00	
11	Balok BA3	9.80	m ³	Rp 2,746,400.00	Rp 26,914,720.00	
12	Balok BK1	1.02	m ³	Rp 3,784,900.00	Rp 3,860,598.00	
13	Balok BL2	0.89	m ³	Rp 2,822,400.00	Rp 2,504,880.00	
14	Balok BL3	3.44	m ³	Rp 3,423,100.00	Rp 11,775,464.00	
15	Pelat Tangga, Bordes, dan Balok Bordes	4.45	m ³	Rp 4,585,800.00	Rp 20,388,008.22	
16	Pelat Lantai Tipe-B	21.28	m ³	Rp 2,822,400.00	Rp 60,060,672.00	
						Rp 335,099,294.84
H	LANTAI DAG DAN RUANG LIFT					
1	Kolom K4	3.58	m ³	Rp 3,738,047.00	Rp 13,363,518.03	
2	Kolom K6	2.20	m ³	Rp 3,109,966.00	Rp 6,829,485.34	
3	Kolom K8	3.71	m ³	Rp 4,465,063.00	Rp 16,576,546.39	
4	Balok B4	0.48	m ³	Rp 3,447,659.00	Rp 1,654,876.32	
5	Balok B8	10.16	m ³	Rp 2,794,248.00	Rp 28,400,736.67	
6	Balok B9	8.04	m ³	Rp 2,211,306.00	Rp 17,778,900.24	
7	Balok BA1	0.10	m ³	Rp 3,427,835.00	Rp 349,639.17	
8	Balok BA4	3.46	m ³	Rp 2,794,055.00	Rp 9,657,092.30	
9	Balok BK2	0.37	m ³	Rp 2,969,037.00	Rp 1,104,481.76	
10	Balok BL2	0.89	m ³	Rp 2,409,794.00	Rp 2,138,692.18	
11	Balok Keliling Ruang Lift	1.10	m ³	Rp 3,399,968.00	Rp 3,733,164.86	
12	Pelat Lantai Tipe-B	0.85	m ³	Rp 2,063,329.00	Rp 1,746,814.33	
13	Pelat Lantai Tipe-C	12.87	m ³	Rp 2,537,496.00	Rp 32,649,961.03	
						Rp 135,983,908.61
I	TALANG DAN ATAP					
1	Balok B8	2.69	m ³	Rp 3,447,659.00	Rp 9,267,307.39	
2	Balok B9	3.94	m ³	Rp 2,794,248.00	Rp 10,998,160.13	
3	Balok B10	8.28	m ³	Rp 2,621,490.00	Rp 21,705,937.20	
4	Balok B11	0.86	m ³	Rp 2,727,145.00	Rp 2,345,344.70	
5	Balok BA1	0.23	m ³	Rp 3,427,835.00	Rp 781,546.38	
6	Balok BA4	0.58	m ³	Rp 2,794,055.00	Rp 1,613,566.76	
7	Balok BK2	1.30	m ³	Rp 2,969,037.00	Rp 3,847,871.95	
8	Balok BK3	1.51	m ³	Rp 3,423,253.00	Rp 5,175,958.54	
9	Balok BK4	0.23	m ³	Rp 2,654,965.00	Rp 617,279.36	
10	Balok BL5	2.58	m ³	Rp 3,124,143.00	Rp 8,060,288.94	
11	Balok BL6	0.15	m ³	Rp 3,216,703.00	Rp 492,155.56	
12	Plat Talang	6.91	m ³	Rp 2,546,129.00	Rp 17,591,714.49	
13	Plat atap	3.16	m ³	Rp 2,537,496.00	Rp 8,012,904.87	
14	Plat atap mesin lift	1.63	m ³	Rp 2,318,713.00	Rp 3,787,617.69	
						Rp 94,297,653.95
TOTAL BIAYA PEKERJAAN BETON						Rp 2,891,463,794.98
III	PEKERJAAN RANGKA DAN PENUTUP ATAP					
1	Baja profil L60X60X6	1222.75	kg	Rp 11,865.00	Rp 14,507,952.48	
2	Baja profil L50X50X5	2605.07	kg	Rp 11,865.00	Rp 30,909,155.55	
3	Baja profil C150X65X20X3.2	2072.76	kg	Rp 11,413.00	Rp 23,656,409.88	
4	Sagrod dia 10mm	117.18	kg	Rp 11,413.00	Rp 1,337,375.34	

5	ikatan angin dia 16mm	167.48	kg	Rp	11,413.00	Rp	1,911,449.24	
6	Plat simpul,kopel dan tumpu	590.06	kg	Rp	12,545.00	Rp	7,402,280.12	
7	Angkur dia 16mm	28.00	unit	Rp	23,043.00	Rp	645,204.00	
8	Walter mur	12.00	unit	Rp	23,043.00	Rp	276,516.00	
9	Baut HTB	54.81	kg	Rp	57,100.00	Rp	3,129,651.00	
10	Usuk dan reng jati	416.16	m ²	Rp	141,175.00	Rp	58,751,388.00	
11	Atap genteng Sakura roof + insulation	416.16	m ²	Rp	110,635.00	Rp	46,041,861.60	
12	Bubungan atap Sakura roof	53.60	m ¹	Rp	51,687.00	Rp	2,770,423.20	
								191,339,666.41
IV	PEKERJAAN KANOPI							
1	Baja profil WF 150X75X5X7	770.00	kg	Rp	12,180.00	Rp	9,378,600.00	
2	Baja profil C 150X65X20X3.2	894.44	kg	Rp	11,413.00	Rp	10,208,255.13	
3	Kolom pipa dia 318 mm- tebal 7 mm	322.80	kg	Rp	19,743.00	Rp	6,373,040.40	
4	Pelat t = 5 mm	15.92	kg	Rp	10,865.00	Rp	172,932.77	
5	Pelat t = 10 mm	144.55	kg	Rp	10,865.00	Rp	1,570,558.57	
6	baut dia 16 mm	13.60	kg	Rp	10,908.00	Rp	148,348.80	
7	baut dia 12 mm	5.28	unit	Rp	10,908.00	Rp	57,594.24	
8	Angkur dia 16 mm	32.00	unit	Rp	23,043.00	Rp	737,376.00	
9	Angkur dia 19 mm	12.00	unit	Rp	23,043.00	Rp	276,516.00	
10	Angkur dia 22 mm	4.00	unit	Rp	23,043.00	Rp	92,172.00	
11	Kabel sling dia 20 mm	31.88	unit	Rp	77,813.00	Rp	2,480,577.28	
12	Klem plat 5 mm	24.00	unit	Rp	10,865.00	Rp	260,760.00	
13	Besi Bulat 5 cm	3.50	m ¹	Rp	97,101.00	Rp	339,853.50	
14	Besi Bulat 7 cm	8.70	m ¹	Rp	138,785.00	Rp	1,207,429.50	
15	Flatdeck	145.20	m ²	Rp	116,030.00	Rp	16,847,556.00	
16	Polycarbonate	7.61	m ²	Rp	184,430.00	Rp	1,403,973.38	
17	Atap Polycarbonate Rangka Besi Lantai 1	43.00	m ²	Rp	348,430.00	Rp	14,982,490.00	
								Rp 66,538,033.57
V	PEKERJAAN PINTU, JENDELA DAN PARTISI							
1	P1	1.00	unit	Rp	10,249,837.00	Rp	10,249,837.00	
2	P2	2.00	unit	Rp	5,140,432.00	Rp	10,280,864.00	
3	P3	17.00	unit	Rp	3,342,373.00	Rp	56,820,341.00	
4	P4	3.00	unit	Rp	3,659,145.00	Rp	10,977,435.00	
5	P5	2.00	unit	Rp	3,991,863.00	Rp	7,983,726.00	
6	P6	4.00	unit	Rp	5,515,676.00	Rp	22,062,704.00	
7	P7	8.00	unit	Rp	5,402,150.00	Rp	43,217,200.00	
8	P8	2.00	unit	Rp	5,402,150.00	Rp	10,804,300.00	
9	P9	10.00	unit	Rp	6,832,560.00	Rp	68,325,600.00	
10	J1	4.00	unit	Rp	756,000.00	Rp	3,024,000.00	
11	J2	16.00	unit	Rp	706,650.00	Rp	11,306,400.00	
12	J3	15.00	unit	Rp	822,543.00	Rp	12,338,145.00	
13	J4	25.00	unit	Rp	366,030.00	Rp	9,150,750.00	
14	J5	5.00	unit	Rp	1,331,820.00	Rp	6,659,100.00	
15	J6	51.00	unit	Rp	2,180,718.00	Rp	111,216,618.00	
16	J7	36.00	unit	Rp	1,244,775.00	Rp	44,811,900.00	
17	J8	8.00	unit	Rp	5,585,868.00	Rp	44,686,944.00	
18	J9	2.00	unit	Rp	28,736,400.00	Rp	57,472,800.00	
19	PR1	2.00	unit	Rp	8,329,440.00	Rp	16,658,880.00	
20	PR2	3.00	unit	Rp	6,196,470.00	Rp	18,589,410.00	
21	PR3	2.00	unit	Rp	6,520,001.00	Rp	13,040,002.00	
22	PR4	1.00	unit	Rp	8,163,172.00	Rp	8,163,172.00	

23	PR5	1.00	unit	Rp 8,229,480.00	Rp 8,229,480.00	
24	PR6	1.00	unit	Rp 5,194,271.00	Rp 5,194,271.00	
25	PR7	2.00	unit	Rp 7,991,970.00	Rp 15,983,940.00	
26	PR8	1.00	unit	Rp 6,285,195.00	Rp 6,285,195.00	
27	PR9	1.00	unit	Rp 6,730,683.00	Rp 6,730,683.00	
28	PR10	2.00	unit	Rp 6,272,805.00	Rp 12,545,610.00	
29	PR11	1.00	unit	Rp 4,808,544.00	Rp 4,808,544.00	
30	PR12	1.00	unit	Rp 6,573,131.00	Rp 6,573,131.00	
31	PR13	1.00	unit	Rp 4,827,900.00	Rp 4,827,900.00	
32	PR14	1.00	unit	Rp 3,987,637.00	Rp 3,987,637.00	
33	PR15a	1.00	unit	Rp 5,684,700.00	Rp 5,684,700.00	
34	PR15b	1.00	unit	Rp 5,684,700.00	Rp 5,684,700.00	
35	PR15c	1.00	unit	Rp 5,684,700.00	Rp 5,684,700.00	
36	PR16a	1.00	unit	Rp 3,479,043.00	Rp 3,479,043.00	
37	PR16b	1.00	unit	Rp 3,479,043.00	Rp 3,479,043.00	
38	PR17	1.00	unit	Rp 7,825,650.00	Rp 7,825,650.00	
39	PR18a	8.00	unit	Rp 4,528,200.00	Rp 36,225,600.00	
40	PR18b	6.00	unit	Rp 9,163,900.00	Rp 54,983,400.00	
41	PR19a	5.00	unit	Rp 8,731,616.00	Rp 43,658,080.00	
42	PR19b	6.00	unit	Rp 8,731,616.00	Rp 52,389,696.00	
43	PR 20	1.00	unit	Rp 6,316,616.00	Rp 6,316,616.00	
44	Pintu ruang tangga lantai dag	1.00	unit	Rp 2,000,000.00	Rp 2,000,000.00	
45	pintu ruang mesin lift	1.00	unit	Rp 2,000,000.00	Rp 2,000,000.00	
46	pintu KM/WC	25.00	unit	Rp 2,000,000.00	Rp 50,000,000.00	
47	particle board t= 9mm	56.00	m ²	Rp 166,000.00	Rp 9,296,000.00	
						Rp 961,713,747.00
VI	PEKERJAAN PLAFON DAN RAK CAHAYA					
1	Plafond Gypsum Rangka Metal Furing	119.45	m ²	Rp 67,222.00	Rp 8,029,970.40	
2	Plafond Kalsiboard Rangka Metal Furing	768.55	m ²	Rp 76,613.00	Rp 58,880,921.15	
3	Plafond Plasterboard Rangka Metal Furing	43.20	m ²	Rp 222,675.00	Rp 9,619,560.00	
4	Finishing Plat Beton Ekspose	224.54	m ²	Rp 10,000.00	Rp 2,245,400.00	
5	List Plafond	1475.10	m'	Rp 12,500.00	Rp 18,438,750.00	
6	Rak Cahaya Internal Tipe C1	7.00	unit	Rp 2,484,686.00	Rp 17,392,802.00	
7	Rak Cahaya Internal Tipe C2	13.00	unit	Rp 3,332,775.00	Rp 43,326,075.00	
8	Rak Cahaya Internal Tipe C3	9.00	unit	Rp 5,559,398.00	Rp 50,034,582.00	
9	Rak Cahaya Internal Tipe C4	6.00	unit	Rp 6,240,675.00	Rp 37,444,050.00	
10	Rak Cahaya Internal Tipe C5	9.00	unit	Rp 7,597,595.00	Rp 68,378,355.00	
11	Rak Cahaya Internal Tipe C6	20.00	unit	Rp 1,188,110.00	Rp 23,762,200.00	
12	Rak Cahaya Internal Tipe C7	4.00	unit	Rp 2,162,855.00	Rp 8,651,420.00	
13	Rak Cahaya Internal Tipe C8	4.00	unit	Rp 701,259.00	Rp 2,805,036.00	
14	Rak Cahaya Internal Tipe C9	6.00	unit	Rp 3,796,263.00	Rp 22,777,578.00	
15	Rak Cahaya Internal Tipe C10	3.00	unit	Rp 4,527,298.00	Rp 13,581,894.00	Rp 385,368,593.55
VII	PEKERJAAN PASANGAN BATA DAN RAILING					
1	Pasangan bata kedap air (1 : 2)	235.02	m ²	Rp 53,892.00	Rp 12,665,697.84	
2	Pasangan bata (1 : 4)	1234.86	m ²	Rp 46,900.00	Rp 57,914,934.00	
3	Pasangan batu kali (1 : 4)	68.93	m ²	Rp 324,150.00	Rp 22,345,085.76	
4	Plesteran kedap air (1 : 2)	470.04	m ²	Rp 27,512.00	Rp 12,931,740.48	
5	Plesteran (1 : 4)	2237.84	m ²	Rp 22,792.00	Rp 51,004,849.28	
6	Plesteran kamprotan	231.88	m ²	Rp 23,287.00	Rp 5,399,789.56	
7	Plesteran serut	14.50	m ²	Rp 23,287.00	Rp 337,661.50	
8	Plesteran beton	1899.79	m ²	Rp 27,512.00	Rp 52,267,091.26	

9	Pasangan roster	35.67	m ²	Rp 344,207.00	Rp 12,279,102.84	
10	Sponengan	1430.94	m'	Rp 3,101.00	Rp 4,437,344.94	
11	Kolom praktis	12.39	m ³	Rp 2,767,532.00	Rp 34,298,024.08	
12	Balustrade	111.12	m'	Rp 366,258.00	Rp 40,698,588.96	
13	Railing atap	56.40	m'	Rp 192,827.00	Rp 10,875,442.80	
14	Railing tangga bangunan	121.50	m'	Rp 648,845.00	Rp 78,834,667.50	Rp 396,290,020.79
					TOTAL BIAYA	Rp 2,001,250,061.32





Data Proyek Pembangunan

Gedung Hotel Horison Ultima Riss,

Tahun 2012

PERINCIAN BIAYA

PROYEK: HOTEL HORISON ULTIMA RISS

OWNER :REDJO BUNTUNG

LOKASI :JL GOWONGAN KIDUL NO 33.

BILL OF QUANTITY					
NO.	JENIS PEKERJAAN	SAT.	VOL	HARGA SATUAN	JUMLAH HARGA
				(Rp.)	(Rp.)
I.	PEKERJAAN PERSIAPAN				
1	Mobilisasi & demobilisasi alat	ls	1.00	172,020.00	172,020
2	Peralatan dan perlengkapan kerja	ls	1.00	391,563,028.00	230,792,357
3	Penyediaan listrik untuk keperluan kerja	ls	1.00	35,522,479.20	35,522,479
4	listrik kerja dan penerangan	ls	1.00	8,880,619.80	8,880,620
5	sumur gali untuk air kerja + pompa + water tower	ls	1.00	49,563,744.40	49,563,744
6	Keamanan proyek	ls	1.00	21,404,570.80	21,404,571
7	kantor dan gudang kerja proyek termasuk MCK	ls	1.00	14,972,900.00	14,972,900
8	kebersihan dan kerapian proyek	ls	1.00	42,581,433.40	42,581,433
9	perbaikan dan perawatan pagar pengaman proyek	m'	90.90	130,256.00	11,840,270
10	pengukuran dan pemasangan bouwplank	m'	306.64	43,200.00	13,246,848
TOTAL I					428,977,243
II.	PEKERJAAN TANAH GALIAN DAN URUGAN				
A	PONDASI, DINDING PENAHAN TANAH DAN SLOOF				
1	Pembersihan lokasi kerja/land clearing	ls	1.00	3,873,450.00	3,873,450
2	galian tanah pondasi sumuran P1	m'	307.92	69,100.00	21,277,272
3	galian tanah pondasi sumuran P2	m'	641.25	69,100.00	44,310,375
4	galian tanah pondasi sumuran P3	m'	346.32	69,100.00	23,930,712
5	galian tanah pondasi sumuran P4	m'	359.17	69,100.00	24,818,647
6	galian tanah pondasi sumuran P5	m'	513.04	69,100.00	35,451,064
7	galian tanah pondasi sumuran P8	m'	102.62	69,100.00	7,091,042
8	galian tanah pile cap P1	m ³	32.37	69,100.00	2,236,767
9	galian tanah pile cap P2	m ³	163.36	69,100.00	11,288,176
10	galian tanah pile cap P3	m ³	182.95	69,100.00	12,641,845
11	galian tanah pile cap P4	m ³	97.57	69,100.00	6,742,087
12	galian tanah pile cap P5	m ³	60.98	69,100.00	4,213,718
13	galian tanah pile cap P8	m ³	26.91	69,100.00	1,859,481
14	galian tanah sloof S1, S2, S3	m ³	209.17	69,100.00	14,453,647
15	galian tanah basement	m ³	3395.84	69,100.00	234,652,544
16	galian tanah ramp	m ³	456	69,100.00	31,509,600
17	urugan tanah peninggian level dan perataan	m ³	1,955.25	18,400.00	35,976,600
18	urugan tanah kembali pondasi	m ³	322.55	14,119.25	4,554,164
TOTAL II					520,881,191
III.	PEKERJAAN ANTI RAYAP				
1	anti rayap galian pondasi pile cap	m2	1,373.73	17,901.98	24,592,486
2	anti rayap lantai	m2	2,585.00	17,881.92	46,224,765
TOTAL III					70,817,250

IV.	PEKERJAAN BETON				
A	LANTAI BASEMENT (Elev. -3.50)				
	Pasir Urug tebal 10 cm pada:				
1	Bawah pile cap	m3	39.78	103,035.38	4,098,748
2	bawah slab on ground dan sloof	m3	151.62	89,000.00	13,494,180
3	bawah slab ramp	m3	48.00	104,366.26	5,009,580
	lantai kerja 5 cm pada				
4	Bawah pile cap	m3	19.89	618,212.31	12,296,243
5	bawah slab on ground dan sloof	m3	22.28	522,400.00	11,639,072
6	bawah slab ramp	m3	24.00	626,197.55	15,028,741
	beton f'c:25 Mpa pada:				
7	pondasi sumuran	m3	602.60	834,728.53	503,007,414
8	pile cap P1, P2, P3, P4, P5, P8	m3	397.78	702,000.00	279,241,560
9	foot plat PT1	m3	9.90	828,029.82	8,197,495
10	sloof S1, S2, S3	m3	63.71	702,000.00	44,724,420
11	slab on ground/lantai basement 15cm	m3	279.92	702,000.00	196,503,840
12	kolom	m3	125.70	702,000.00	88,241,400
13	pit lift	m3	7.99	826,475.32	6,603,538
14	shear wall/dinding geser SW1	m3	3.20	853,905.75	2,732,498
15	dinding basement tebal 18 cm	m3	108.59	834,587.56	90,627,864
16	tangga	m3	18.20	702,000.00	12,776,400
17	plat ramp tebal 15 cm	m3	31.20	832,010.73	25,958,735
	besi BJTD 40 dan BJTD 24 pada:				
18	pondasi sumuran	kg	52,540.11	11,589.08	608,891,727
19	pile cap P1, P2, P3, P4, P5, P8	kg	54,361.93	9,780.00	531,659,675
20	foot plat PT1	kg	1,815.00	11,542.23	20,949,154
21	sloof S1, S2, S3	kg	32,656.23	9,780.00	319,377,929
22	kolom	kg	34,477.70	9,780.00	337,191,906
23	pit lift	kg	828.02	11,550.14	9,563,744
24	shear wall/dinding geser SW1	kg	292.91	11,661.00	3,415,623
25	dinding basement tebal 18 cm	kg	18,084.99	11,596.32	209,719,252
26	tangga	kg	2,861.04	9,780.00	27,980,971
	tulangan dia. P8-200 pada:				
27	slab on ground	m2	1,866.15	98,500.00	183,815,775
28	plat ramp	m2	240.00	116,700.45	28,008,109
	bekisting batako pada:				
29	pile cap P1, P2, P3, P4, P5, P8	m2	694.40	66,000.00	45,830,400
30	sloof S1, S2, S3	m2	427.49	66,000.00	28,214,340
	bekisting kayu pada:				
31	pit lift	m2	52.17	104,753.63	5,464,997
32	shear wall/dinding geser SW1	m2	33.25	102,725.50	3,415,623
33	tepi slab on ground	m2	24.96	100,352.17	2,504,790
34	kolom	m2	787.15	86,800.00	68,324,620
35	dinding basement	m2	1,206.60	102,851.79	124,100,969
36	tangga	m2	152.00	86,200.00	13,102,400

	pasangan pondasi batu kali pada:				
37	sisi ramp barat & ramp timur	kg	470.80	447,871.27	210,857,793
38	sisi ramp selatan	m3	246.40	448,208.10	110,438,477
TOTAL BASEMENT				4,213,010,003	
B	LANTAI DASAR (GROUND FLOOR)				
	Pasir Urug tebal 10 cm pada:				
1	bawah pondasi foot plat PT2 dan umpak PU	m3	2.48	91,817.82	227,708
2	bawah slab droop off	m3	9.00	101,203.64	910,833
	lantai kerja 5 cm pada:				
1	bawah pondasi foot plat PT2 dan umpak PU	m3	2.48	642,724.76	1,593,957
2	bawah slab dan sloof S3	m3	9.00	632,522.78	5,692,705
	Beton F'c Mpa pada:				
1	plat	m3	207.59	702,000.00	145,728,180
2	kolom	m3	184.51	702,000.00	129,526,020
3	balok	m3	193.04	702,000.00	135,514,080
4	tangga	m3	18.20	838,266.45	15,256,449
5	shear wall/dinding geser SW1	m3	3.94	809,115.43	3,187,915
	besi BJTD 40 dan BJTD 24 pada:				
1	plat	kg	23,922.18	9,780.00	233,958,920
2	kolom	kg	48,606.89	9,780.00	475,375,384
3	balok	kg	48,612.37	9,780.00	475,428,979
4	tangga	kg	2,861.04	11,620.04	33,245,397
5	shear wall/dinding geser SW1	kg	436.21	11,484.33	5,009,580
	bekisting kayu pada:				
1	plat	m2	1,384.34	117,500.00	162,659,950
2	kolom	m2	1,195.29	86,800.00	103,751,172
3	balok	m2	1,690.73	86,200.00	145,740,926
4	tangga	m2	152.00	101,869.46	15,484,158
5	shear wall/dinding geser SW1	m2	47.50	100,670.99	4,781,872
TOTAL GROUND FLOOR				2,093,074,186	
C	LANTAI 1				
	Beton F'c Mpa pada:				
1	plat	m3	223.72	702,000.00	157,051,440
2	kolom	m3	134.90	702,000.00	94,699,800
3	balok	m3	208.32	702,000.00	146,240,640
4	tangga	m3	13.65	834,095.97	11,385,410
5	lisplank LP1, LP2	m3	4.09	835,115.65	3,415,623
6	shear wall/dinding geser SW1	m3	3.15	867,459.81	2,732,498
	besi BJTD 40 dan BJTD 24 pada:				
1	plat	kg	25,807.90	9,780.00	252,401,262
2	kolom	kg	40,329.19	9,780.00	394,419,478
3	balok	kg	50,779.15	9,780.00	496,620,087
4	tangga	kg	2,145.78	11,566.98	24,820,194
5	lisplank LP1, LP2	kg	561.15	11,767.87	6,603,538

6	shear wall/dinding geser SW1	kg	348.97	11,745.27	4,098,748
	bekisting kayu pada:				
1	plat	m2	1,505.10	117,500.00	176,849,250
2	kolom	m2	686.80	86,800.00	59,614,240
3	balok	m2	1,983.44	86,200.00	170,972,528
4	tangga	m2	114.00	101,869.46	11,613,118
5	lisplank LP1, LP2	m2	54.80	103,881.48	5,692,705
6	shear wall/dinding geser SW1	m2	38.00	101,869.46	3,871,039
TOTAL LANTAI 1				2,023,101,598	
D	LANTAI 2. Elv.9.15				
	Beton F'c Mpa pada:				
1	plat	m3	188.63	702,000.00	132,418,260
2	kolom	m3	106.48	702,000.00	74,748,960
3	balok	m3	188.66	702,000.00	132,439,320
4	tangga	m3	13.65	834,095.97	11,385,410
5	shear wall/dinding geser SW1	m3	3.15	867,459.81	2,732,498
	besi BJTD 40 dan BJTD 24 pada:				
1	plat	kg	21,847.20	9,780.00	213,665,616
2	kolom	kg	36,705.53	9,780.00	358,980,083
3	balok	kg	48,370.75	9,780.00	473,065,935
4	tangga	kg	2,145.78	11,566.98	24,820,194
5	shear wall/dinding geser SW1	kg	348.97	11,745.27	4,098,748
	bekisting kayu pada:				
1	plat	m2	1,421.73	117,500.00	167,053,275
2	kolom	m2	997.52	86,800.00	86,584,736
3	balok	m2	1,823.83	86,200.00	157,214,146
4	tangga	m2	114.00	101,869.46	11,613,118
5	shear wall/dinding geser SW1	m2	38.00	101,869.46	3,871,039
TOTAL LANTAI 2				1,854,691,339	
E	LANTAI 3. Elv.13.15				
	Beton F'c Mpa pada:				
1	plat	m3	134.90	702,000.00	94,699,800
2	kolom	m3	50.28	702,000.00	35,296,560
3	balok	m3	135.81	702,000.00	95,338,620
4	tangga	m3	13.65	834,095.97	11,385,410
5	shear wall/dinding geser SW1	m3	3.15	867,459.81	2,732,498
	besi BJTD 40 dan BJTD 24 pada:				
1	plat	kg	14,762.37	9,780.00	144,375,979
2	kolom	kg	27,108.24	9,780.00	265,118,587
3	balok	kg	34,570.08	9,780.00	338,095,382
4	tangga	kg	2,145.78	11,566.98	24,820,194
5	shear wall/dinding geser SW1	kg	348.97	11,745.27	4,098,748
	bekisting kayu pada:				
1	plat	m2	1,418.64	117,500.00	166,690,200
2	kolom	m2	403.20	86,800.00	34,997,760

3	balok	m2	1,355.78	86,200.00	116,868,236
4	tangga	m2	114.00	101,869.46	11,613,118
5	shear wall/dinding geser SW1	m2	38.00	101,869.46	3,871,039
TOTAL LANTAI 3					1,350,002,132
F	LANTAI 4. Elv. +17.15				
	Beton F'c Mpa pada:				
1	plat	m3	134.90	702,000.00	94,699,800
2	kolom	m3	50.28	702,000.00	35,296,560
3	balok	m3	135.81	702,000.00	95,338,620
4	tangga	m3	13.65	834,095.97	11,385,410
5	shear wall/dinding geser SW2	m3	3.15	867,459.81	2,732,498
	besi BJTD 40 dan BJTD 24 pada:				
1	plat	kg	14,762.37	9,780.00	144,375,979
2	kolom	kg	27,108.24	9,780.00	265,118,587
3	balok	kg	34,538.86	9,780.00	337,790,051
4	tangga	kg	2,145.78	11,566.98	24,820,194
5	shear wall/dinding geser SW2	kg	348.97	11,745.27	4,098,748
	bekisting kayu pada:				
1	plat	m2	1,418.64	117,500.00	166,690,200
2	kolom	m2	403.20	86,800.00	34,997,760
3	balok	m2	1,355.78	86,200.00	116,868,236
4	tangga	m2	114.00	101,869.46	11,613,118
5	shear wall/dinding geser SW2	m2	38.00	101,869.46	3,871,039
TOTAL LANTAI 4					1,349,696,800
G	LANTAI 05. Elv. +21.15				
	Beton F'c Mpa pada:				
1	plat	m3	121.89	702,000.00	85,566,780
2	kolom	m3	23.07	702,000.00	16,195,140
3	balok	m3	121.95	702,000.00	85,608,900
4	tangga	m3	13.65	834,095.97	11,385,410
	besi BJTD 40 dan BJTD 24 pada:				
1	plat	kg	14,888.48	9,780.00	145,609,334
2	kolom	kg	7,776.12	9,780.00	76,050,454
3	balok	kg	31,270.71	9,780.00	305,827,544
4	tangga	kg	2,145.78	11,566.98	24,820,194
	bekisting kayu pada:				
1	plat	m2	971.87	117,500.00	114,194,725
2	kolom	m2	188.00	86,800.00	16,318,400
3	balok	m2	1,187.06	86,200.00	102,324,572
4	tangga	m2	114.00	101,869.46	11,613,118
TOTAL LANTAI 5					995,514,571
G	LANTAI Elv. +22.75 & 24.25				
	Beton F'c Mpa pada:				
1	plat luifel	m3	21.24	836,216.55	17,761,240
2	plat atap tangga	m3	6.12	818,558.89	5,009,580

3	balok	m3	30.76	836,509.32	25,731,027
	besi BJTD 40 dan BJTD 24 pada:				
1	plat luifel	kg	2,616.77	11,573.50	30,285,191
2	plat atap tangga	kg	669.71	11,560.35	7,742,079
3	balok	kg	8,209.47	11,594.17	95,182,028
	bekisting kayu pada:				
1	plat luifel	m2	212.40	139,369.43	29,602,066
2	plat atap tangga	m2	51.00	102,691.93	5,237,289
3	balok	m2	298.10	102,357.93	30,512,899
TOTAL ATAP				247,063,397	
	KOLAM RENANG				
1	galian tanah kolam renang	m3	230.40	20,754.65	4,781,872
2	urugan pasir	m3	14.40	110,691.49	1,593,957
3	lantai kerja tebal 5 cm bawah plat	m3	7.20	632,522.78	4,554,164
4	water proofing	m3	327.00	100,971.53	33,017,689
5	stop cor	m3	92.00	131,179.72	12,068,535
	Beton F'c 27.5 Mpa pada:				
1	plat kolam renang	m3	24.00	853,905.75	20,493,738
2	dinding kolam renang	m3	20.70	858,030.90	17,761,240
3	gutter keliling kolam	m3	6.48	843,363.70	5,464,997
	besi BJTD 40 dan BJTD 24 pada:				
1	plat kolam renang	kg	3,352.00	11,616.38	38,938,102
2	dinding kolam renang	kg	2,891.10	11,577.98	33,473,105
3	gutter keliling kolam	kg	343.89	11,918.78	4,098,748
	bekesting kayu pada:				
1	dinding kolam renang	m2	207.00	102,303.68	21,176,863
2	gutter keliling kolam	m2	32.40	105,420.46	3,415,623
TOTAL KOLAM RENANG				200,838,632	
IV.	PEKERJAAN ARSITEKTUR DASAR				
A	PEKERJAAN PASANGAN DINDING DAN PLESTERAN				
	LANTAI BASEMENT				
1	floor hardener + beton rabat K300 area parkir	m2	1,203.12	117,154.88	140,951,376
2	floor hardener + beton rabat K300 area ramp	m2	224.79	117,505.90	26,414,151
3	pasangan bata ringan dinding	m2	377.38	160,502.36	60,570,381
4	plesteran dinding finish acian	m2	754.76	61,211.70	46,200,143
5	plesteran beton kolom	m2	809.90	40,513.00	32,811,479
6	plesteran dinding beton	m2	852.01	43,563.38	37,116,437
7	plesteran acian plat beton	m2	1,369.49	18,955.04	25,958,735
8	sponengan kolom dan balok beton	m'	4,206.48	6,117.00	25,731,027
9	kolom praktis	m3	3.55	3,141,300.00	11,151,615
10	balok ring praktis	m'	103.40	83,683.86	8,652,912
TOTAL BASEMENT				415,558,254	
	LANTAI DASAR (GROUND FLOOR)				
	pekerjaan pasangan dan plesteran				

1	pasangan bata ringan dinding	m2	715.51	161,987.22	115,903,474
2	plesteran dinding finish acian	m2	1,338.50	61,211.70	81,931,860
3	plesteran beton kolom	m2	1,079.68	40,513.00	43,741,076
4	plesteran beton balok	m2	1,579.56	43,536.10	68,767,876
5	plester compound plat tangga dan plat luifel	m2	75.90	18,000.65	1,366,249
6	sponengan kolom dan balok beton	m'	1,805.00	6,686.17	12,068,535
7	kolom praktis	m3	6.31	3,241,300.00	20,452,603
8	balok ring praktis	m'	309.56	84,592.46	26,186,443
TOTAL GROUND FLOOR				370,418,116	
	LANTAI 01 Elv. +5.15				
	pekerjaan pasangan dan plesteran				
1	pasangan bata ringan dinding	m2	2,192.15	163,706.01	358,868,123
2	plesteran dinding finish acian	m2	4,270.59	65,903.62	281,447,335
3	plesteran beton kolom	m2	707.70	54,055.36	38,254,978
4	plesteran beton balok	m2	95.59	54,789.08	5,237,289
5	plester compound plat tangga dan plat luifel	m2	213.25	20,288.19	4,326,456
6	sponengan kolom dan balok beton	m'	1,330.00	7,190.79	9,563,744
7	kolom praktis	m3	36.31	3,341,300.00	121,322,603
8	balok ring praktis	m'	790.08	87,327.34	68,995,585
TOTAL LANTAI 1				888,016,112	
	LANTAI 02. Elv.9.15				
	pekerjaan pasangan dan plesteran				
1	pasangan bata ringan dinding	m2	2,109.43	165,807.73	349,759,795
2	plesteran beton kolom	m2	669.20	54,102.82	36,205,604
3	plester compound plat tangga dan plat luifel	m2	82.80	22,000.79	1,821,666
4	plesteran dinding finish acian	m2	4,188.15	65,900.62	276,001,676
5	kolom praktis	m3	37.79	3,441,300.00	130,046,727
6	balok ring praktis	m'	740.03	87,387.17	64,669,129
TOTAL LANTAI 2				858,504,597	
	LANTAI 03. Elv.13.15				
	pekerjaan pasangan dan plesteran				
1	pasangan bata ringan dinding	m2	2,109.43	167,966.68	354,313,959
2	plesteran dinding finish acian	m2	4,188.15	65,896.00	275,982,338
3	plesteran beton kolom	m2	472.15	54,015.29	25,503,318
4	plesteran beton balok	m2	76.86	53,327.45	4,098,748
5	plester compound plat tangga dan plat luifel	m2	82.80	22,000.79	1,821,666
6	sponengan kolom dan balok beton	m'	812.00	8,693.29	7,058,954
7	kolom praktis	m3	37.79	3,541,300.00	133,825,727
8	balok ring praktis	m'	740.03	90,156.48	66,718,503
TOTAL LANTAI 3				869,323,213	
	LANTAI 04. Elv. +17.15				
	pekerjaan pasangan dan plesteran				
1	pasangan bata ringan dinding	m2	1,880.69	167,933.72	315,831,273
2	plesteran dinding finish acian	m2	3,732.81	65,881.96	245,924,856
3	plesteran beton kolom	m2	472.15	54,015.29	25,503,318
4	plesteran beton balok	m2	76.86	53,327.45	4,098,748
5	plester compound plat tangga dan plat luifel	m2	270.00	25,300.91	6,831,246
6	sponengan kolom dan balok beton	m'	812.00	8,693.29	7,058,954

7	kolom praktis	m3	37.89	3,541,300.00	134,179,857
8	balok ring praktis	m'	740.03	90,156.48	66,718,503
TOTAL LANTAI 4				806,146,755	
	LANTAI 05. Elv. +21.15				
	pekerjaan pasangan dan plesteran				
1	pasangan bata ringan dinding	m2	189.49	168,236.57	31,879,148
2	plesteran dinding finish acian	m2	378.98	66,092.94	25,047,902
3	plesteran beton kolom	m2	148.64	53,618.05	7,969,787
4	plesteran beton balok	m2	76.86	53,327.45	4,098,748
5	plesteran plat topi-topi	m'	275.48	53,728.16	14,801,033
6	spionengan kolom dan balok beton dan topi-topi beto	m'	1,872.00	8,636.37	16,167,282
7	balok ring praktis	m'	81.00	89,958.80	7,286,662
TOTAL LANTAI 5				107,250,562	
	LANTAI ATAP LIFT & TANGGA Elv. +24.47				
	pekerjaan pasangan dan plesteran				
1	pasangan bata ringan dinding	m2	120.42	168,294.55	20,266,030
2	plesteran dinding finish acian	m2	240.84	66,183.25	15,939,574
3	plesteran beton kolom	m2	215.19	53,966.81	11,613,118
4	plesteran beton lisplank	m2	12.80	53,369.11	683,125
5	spionengan kolom dan balok beton dan topi-topi beto	m'	332.00	8,916.28	2,960,207
6	balok ring praktis	m'	10.00	91,083.28	910,833
TOTAL ATAP LIFT & TANGGA				52,372,886	
	PEKERJAAN PAGAR HOTEL				
	pekerjaan pasangan dan plesteran				
1	galian tanah	m3	240.75	21,754.05	5,237,289
2	pasangan pondasi batu kali	m3	301.89	452,565.24	136,624,920
3	pasangan batu merah	m2	702.68	78,097.68	54,877,676
4	plesteran kamprot	m2	1,561.50	43,602.15	68,084,752
5	plesteran kolom penguat	m3	504.89	43,747.54	22,087,695
6	kolom praktis	m3	23.00	3,141,300.00	72,249,900
7	balok praktis	m'	780.75	87,204.29	68,084,752
8	spionengan	m'	3,365.93	7,915.16	26,641,859
TOTAL PAGAR HOTEL				453,888,843	
	PEKERJAAN RUANG GANTI				
1	pekerjaan counter louver, lavatory, dan CH room	m2	49.38	2,365,619.82	116,814,307
TOTAL PEKERJAAN RUANG GANTI				116,814,307	
	PEKERJAAN WATER PROOFING DINDING BASEMENT				
1	water proofing	m2	630.00	88,914.63	56,016,217
TOTAL PEKERJAAN WATERPROOFING				56,016,217	
TOTAL KESELURUHAN				20,341,978,205	

Lampiran 3

**Perhitungan Simulasi
Volume Pekerjaan per Hari dan
Simulasi Biaya per Satuan
Volume atau Luasan**



Pekerjaan : Pembersihan Lahan

Tahun	Biaya	volume	satuan	durasi	volume/hari	biaya satuan
2008	1,100,000	1	ls	7	0.1429	2,646,857
2008	3,000,000	1	ls	14	0.0714	7,218,702
2010	2,947,450	1	ls	7	0.1429	4,111,353
2010	2,625,000	1	ls	10	0.1	3,661,573

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	0.1429	31	0	30
2	0.0714	16	31	46
3	0.1429	31	47	77
4	0.1000	22	78	100
Total	0.4571	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	2,646,858	15	0	14
2	7,218,702	41	15	55
3	4,111,354	23	56	78
4	3,661,573	21	79	100
Total	31	100		

Pembersihan Lahan					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	16	0.1429	1	0.1429	1
2	64	0.1429	1	0.2857	2
3	31	0.0714	1	0.3571	3
4	24	0.1429	1	0.5000	4
5	12	0.1429	1	0.6429	5
6	9	0.1429	1	0.7857	6
7	5	0.1429	1	0.9286	7
8	1	0.1429	1	1.0714	8
9	78	0.1000	1	1.1714	9
10	29	0.1429	1	1.3143	10
11	22	0.1429	1	1.4571	11
12	18	0.1429	1	1.6000	12
13	41	0.0714	1	1.6714	13
14	13	0.1429	1	1.8143	14
15	3	0.1429	1	1.9571	15
16	1	0.1429	1	2.1000	16
17	66	0.1429	1	2.2429	17
18	9	0.1429	1	2.3857	18
19	4	0.1429	1	2.5286	19
20	17	0.1429	1	2.6714	20
21	17	0.1429	1	2.8143	21
22	12	0.1429	1	2.9571	22
23	3	0.1429	1	3.1000	23
24	1	0.1429	1	3.2429	24
25	95	0.1000	1	3.3429	25

Pembersihan Lahan					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	16	7,218,702.27	1	7,218,702.27	1
2	64	4,111,353.61	1	11,330,055.88	2
3	31	7,218,702.27	1	18,548,758.16	3
4	24	7,218,702.27	1	25,767,460.43	4
5	12	2,646,857.50	1	28,414,317.93	5
6	9	2,646,857.50	1	31,061,175.43	6
7	5	2,646,857.50	1	33,708,032.93	7
8	1	2,646,857.50	1	36,354,890.43	8
9	78	4,111,353.61	1	40,466,244.04	9
10	29	7,218,702.27	1	47,684,946.31	10
11	22	7,218,702.27	1	54,903,648.58	11
12	18	7,218,702.27	1	62,122,350.86	12
13	41	7,218,702.27	1	69,341,053.13	13
14	13	2,646,857.50	1	71,987,910.63	14
15	3	2,646,857.50	1	74,634,768.13	15
16	1	2,646,857.50	1	77,281,625.63	16
17	66	4,111,353.61	1	81,392,979.24	17
18	9	2,646,857.50	1	84,039,836.74	18
19	4	2,646,857.50	1	86,686,694.24	19
20	17	7,218,702.27	1	93,905,396.51	20
21	17	7,218,702.27	1	101,124,098.78	21
22	12	2,646,857.50	1	103,770,956.28	22
23	3	2,646,857.50	1	106,417,813.78	23
24	1	2,646,857.50	1	109,064,671.28	24
25	95	3,661,572.96	1	112,726,244.25	25

Unit per hari	0.1337
Proyek baru	Durasi
1 ls	7

Proyek baru	1
Biaya per unit	Biaya
1 ls	4,509,049.77

Pekerjaan : Penyediaan listrik & air kerja

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	3,700,000	1	ls	184	0.0054	6,967,870
2008	6,500,000	1	ls	152	0.0066	12,240,854
2010	5,000,000	1	ls	232	0.0043	8,880,619
2010	5,000,000	1	ls	196	0.0051	8,880,619

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	0.0054	25	0	24
2	0.0066	31	25	55
3	0.0043	20	56	75
4	0.0051	24	76	100
Total	0.0214	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	6,967,871	15	0	14
2	12,240,854	41	15	55
3	8,880,620	22	56	77
4	8,880,620	22	78	100
Total	36,969,965	100		

Penyediaan listrik & air kerja					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	73	0.004	1	0.00	1
2	42	0.007	1	0.01	2
3	45	0.007	1	0.02	3
4	46	0.007	1	0.02	4
5	41	0.007	1	0.03	5
6	6	0.005	1	0.04	6
7	11	0.005	1	0.04	7
8	1	0.005	1	0.05	8
9	53	0.007	1	0.05	9
10	61	0.004	1	0.06	10
11	31	0.007	1	0.06	11
12	28	0.007	1	0.07	12
13	36	0.007	1	0.08	13
14	15	0.005	1	0.08	14
15	11	0.005	1	0.09	15
16	1	0.005	1	0.09	16
17	62	0.004	1	0.10	17
18	74	0.004	1	0.10	18
19	38	0.007	1	0.11	19
20	56	0.004	1	0.11	20
21	16	0.005	1	0.12	21
22	13	0.005	1	0.12	22
23	7	0.005	1	0.13	23
24	2	0.005	1	0.14	24
25	87	0.005	1	0.14	25

Penyediaan listrik & air kerja					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	73	8,880,620	1	8,880,620	1
2	42	12,240,854	1	21,121,474	2
3	45	12,240,854	1	33,362,328	3
4	46	12,240,854	1	45,603,183	4
5	41	12,240,854	1	57,844,037	5
6	6	6,967,871	1	64,811,908	6
7	11	6,967,871	1	71,779,779	7
8	1	6,967,871	1	78,747,650	8
9	53	12,240,854	1	90,988,504	9
10	61	8,880,620	1	99,869,124	10
11	31	12,240,854	1	112,109,978	11
12	28	12,240,854	1	124,350,833	12
13	36	12,240,854	1	136,591,687	13
14	15	12,240,854	1	148,832,541	14
15	11	6,967,871	1	155,800,412	15
16	1	6,967,871	1	162,768,283	16
17	62	8,880,620	1	171,648,903	17
18	74	8,880,620	1	180,529,523	18
19	38	12,240,854	1	192,770,377	19
20	56	8,880,620	1	201,650,997	20
21	16	12,240,854	1	213,891,851	21
22	13	6,967,871	1	220,859,722	22
23	7	6,967,871	1	227,827,593	23
24	2	6,967,871	1	234,795,464	24
25	87	8,880,620	1	243,676,084	25

Unit per hari	0.006
Proyek baru	Durasi
1 ls	178

Proyek baru	1
Biaya per unit	Biaya
1 ls	9,747,043

Pekerjaan : Pagar Pengaman Proyek

Tahun	Biaya	volume	satuan	durasi	volume/hari	biaya satuan
2008	16,520,400	156	m'	7	22.2857	168,069
2008	9,782,000	146	m'	7	20.8571	106,332
2010	7,500,068	102.39	m'	5	20.4780	134,850
2010	3,749,580	54.8	m'	2	27.4	125,964

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	22	24	0	23
2	21	23	24	46
3	20	22	47	69
4	27	30	70	100
Total	91	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	168,069	31	0	30
2	106,332	20	31	50
3	134,850	25	51	75
4	125,964	24	76	100
Total	535,215	100		

pagar pengaman proyek					
No	Bilangan Random	volume/hari	Hari	volume/hari Kumulatif	Hari Kumulatif
1	44	21	1	21	1
2	56	20	1	41	2
3	16	22	1	64	3
4	28	21	1	84	4
5	43	21	1	105	5
6	29	21	1	126	6
7	8	22	1	148	7
8	2	22	1	171	8
9	24	21	1	192	9
10	75	27	1	219	10
11	3	22	1	241	11
12	38	21	1	262	12
13	27	21	1	283	13
14	20	22	1	305	14
15	22	22	1	328	15
16	1	22	1	350	16
17	13	22	1	372	17
18	9	22	1	394	18
19	12	22	1	417	19
20	10	22	1	439	20
21	36	21	1	460	21
22	16	22	1	482	22
23	7	22	1	504	23
24	1	22	1	527	24
25	78	27	1	554	25

pagar pengaman proyek					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Kumulatif	Volume Kumulatif
1	44	106,333	1	106,333	1
2	56	134,851	1	241,183	2
3	16	168,069	1	409,252	3
4	28	168,069	1	577,321	4
5	43	106,333	1	683,654	5
6	29	168,069	1	851,723	6
7	8	168,069	1	1,019,792	7
8	2	168,069	1	1,187,862	8
9	24	168,069	1	1,355,931	9
10	75	134,851	1	1,490,781	10
11	3	168,069	1	1,658,850	11
12	38	106,333	1	1,765,183	12
13	27	168,069	1	1,933,252	13
14	20	168,069	1	2,101,321	14
15	22	168,069	1	2,269,390	15
16	1	168,069	1	2,437,459	16
17	13	168,069	1	2,605,529	17
18	9	168,069	1	2,773,598	18
19	12	168,069	1	2,941,667	19
20	10	168,069	1	3,109,736	20
21	36	106,333	1	3,216,069	21
22	16	168,069	1	3,384,138	22
23	7	168,069	1	3,552,207	23
24	1	168,069	1	3,720,276	24
25	78	125,964	1	3,846,240	25

Unit per hari	90.9
Proyek baru	Durasi
22.165 m'	4.10

Proyek baru	90.9
Biaya per unit	153,849
90.9 m'	13,984,930

Pekerjaan : Direksi Keet

Tahun	Biaya	vol	satuan	durasi	volume/hari	biaya satuan
2008	6,000,000	1	ls	4	0.2500	15,804,727
2008	5,400,000	1	ls	5	0.2000	14,224,255
2010	5,404,800	1	ls	4	0.2500	11,543,721
2010	9,972,900	1	ls	7	0.1428	21,300,395

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	0.25	30	0 29
2	0.20	24	30 52
3	0.25	30	53 82
4	0.14	17	83 100
Total	0.84	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	15,804,727	25	0 24
2	14,224,255	23	25 47
3	11,543,721	18	48 65
4	21,300,395	34	66 100
Total	62,873,098	100	

Direksi keet					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	49	0.20	1	0	1
2	71	0.25	1	0	2
3	23	0.25	1	1	3
4	53	0.20	1	1	4
5	1	0.25	1	1	5
6	19	0.25	1	1	6
7	1	0.25	1	2	7
8	3	0.25	1	2	8
9	46	0.20	1	2	9
10	48	0.20	1	2	10
11	15	0.25	1	3	11
12	4	0.25	1	3	12
13	53	0.20	1	3	13
14	2	0.25	1	3	14
15	10	0.25	1	4	15
16	6	0.25	1	4	16
17	55	0.20	1	4	17
18	19	0.25	1	4	18
19	40	0.20	1	4	19
20	24	0.25	1	5	20
21	41	0.20	1	5	21
22	30	0.25	1	5	22
23	23	0.25	1	5	23
24	1	0.25	1	6	24
25	83	0.25	1	6	25

Direksi keet					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	49	11,543,721.70	1	11,543,722	1
2	71	21,300,395.90	1	32,844,118	2
3	23	15,804,727.78	1	48,648,845	3
4	53	11,543,721.70	1	60,192,567	4
5	1	15,804,727.78	1	75,997,295	5
6	19	15,804,727.78	1	91,802,023	6
7	1	15,804,727.78	1	107,606,750	7
8	3	15,804,727.78	1	123,411,478	8
9	46	14,224,255.00	1	137,635,733	9
10	48	11,543,721.70	1	149,179,455	10
11	15	15,804,727.78	1	164,984,183	11
12	4	15,804,727.78	1	180,788,910	12
13	53	11,543,721.70	1	192,332,632	13
14	2	15,804,727.78	1	208,137,360	14
15	10	15,804,727.78	1	223,942,088	15
16	6	15,804,727.78	1	239,746,815	16
17	55	11,543,721.70	1	251,290,537	17
18	19	15,804,727.78	1	267,095,265	18
19	40	14,224,255.00	1	281,319,520	19
20	24	15,804,727.78	1	297,124,248	20
21	41	14,224,255.00	1	311,348,503	21
22	30	14,224,255.00	1	325,572,758	22
23	23	15,804,727.78	1	341,377,486	23
24	1	15,804,727.78	1	357,182,213	24
25	83	21,300,395.90	1	378,482,609	25

Unit per hari	0.234
Proyek baru	Durasi
1 ls	4

Proyek baru	1
Biaya per unit	15,139,304.368
1 ls	15,139,304

Pekerjaan : Pengukuran dan Pemasangan Bouwplank

Tahun	Biaya	volume	satuan	durasi	volume/hari	biaya satuan
2008	3,375,600	174	m'	2	87.0000	41,455
2008	2,363,760	112	m'	2	56.0000	45,098
2010	6,439,440	306.64	m'	4	76.6600	34,083
2010	3,887,845	107	m'	1	107	58,973

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	87.00	27	0 26
2	56.00	17	27 43
3	76.66	23	44 66
4	107.00	33	67 100
Total	327	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	41,455.01	23	0 22
2	45,098.35	25	23 47
3	34,083.83	19	48 66
4	58,973.14	33	67 100
Total	179,610	100	

pengukuran dan pemasangan bouwplank					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	67	107.00	1	107	1
2	54	76.66	1	184	2
3	60	76.66	1	260	3
4	37	56.00	1	316	4
5	26	87.00	1	403	5
6	16	87.00	1	490	6
7	7	87.00	1	577	7
8	3	87.00	1	664	8
9	75	107.00	1	771	9
10	10	87.00	1	858	10
11	60	76.66	1	935	11
12	43	56.00	1	991	12
13	5	87.00	1	1,078	13
14	1	87.00	1	1,165	14
15	9	87.00	1	1,252	15
16	1	87.00	1	1,339	16
17	57	76.66	1	1,416	17
18	60	76.66	1	1,492	18
19	54	76.66	1	1,569	19
20	5	87.00	1	1,656	20
21	25	87.00	1	1,743	21
22	10	87.00	1	1,830	22
23	20	87.00	1	1,917	23
24	2	87.00	1	2,004	24
25	39	56.00	1	2,060	25

pengukuran dan pemasangan bouwplank					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	67	58,973.14	1	58,973	1
2	54	34,083.83	1	93,057	2
3	60	34,083.83	1	127,141	3
4	37	45,098.35	1	172,239	4
5	26	45,098.35	1	217,338	5
6	16	41,455.01	1	258,793	6
7	7	41,455.01	1	300,248	7
8	3	41,455.01	1	341,703	8
9	75	58,973.14	1	400,676	9
10	10	41,455.01	1	442,131	10
11	60	34,083.83	1	476,215	11
12	43	45,098.35	1	521,313	12
13	5	41,455.01	1	562,768	13
14	1	41,455.01	1	604,223	14
15	9	41,455.01	1	645,678	15
16	1	41,455.01	1	687,133	16
17	57	34,083.83	1	721,217	17
18	60	34,083.83	1	755,301	18
19	54	34,083.83	1	789,384	19
20	5	41,455.01	1	830,839	20
21	25	45,098.35	1	875,938	21
22	10	41,455.01	1	917,393	22
23	20	41,455.01	1	958,848	23
24	2	41,455.01	1	1,000,303	24
25	39	45,098.35	1	1,045,401	25

Proyek baru	306.64
Unit per hari	82.398
30.64 m'	4

Proyek baru	306.64
Biaya per unit	41,816.046
30.64 m'	12,822,472

Pekerjaan : Galian

Tahun	Biaya	volume	satuan	durasi	volume/hari	biaya satuan
2008	9,471,209	728.55	m ³	7	104.0792	61,697
2008	24,375,859	1473.30	m ³	10	147.3307	78,521
2010	7,854,000	1432.49	m ³	7	204.6423	16,869
2010	107,601,915	4458.33	m ³	8	557.291875	74,257

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	104	10	0 9
2	147	15	10 24
3	205	20	25 44
4	557	55	45 100
Total	1013	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	61,697	27	0 26
2	78,522	34	27 60
3	16,869	7	61 67
4	74,258	32	68 100
Total	231,346	100	

Galian					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	65	557.29	1	557	1
2	67	557.29	1	1,115	2
3	41	204.64	1	1,319	3
4	23	147.33	1	1,467	4
5	37	204.64	1	1,671	5
6	26	204.64	1	1,876	6
7	41	204.64	1	2,080	7
8	32	204.64	1	2,285	8
9	57	557.29	1	2,842	9
10	61	557.29	1	3,400	10
11	69	557.29	1	3,957	11
12	60	557.29	1	4,514	12
13	72	557.29	1	5,072	13
14	1	104.08	1	5,176	14
15	15	147.33	1	5,323	15
16	35	204.64	1	5,528	16
17	43	204.64	1	5,732	17
18	11	147.33	1	5,880	18
19	22	147.33	1	6,027	19
20	8	104.08	1	6,131	20
21	23	147.33	1	6,278	21
22	99	557.29	1	6,836	22
23	82	557.29	1	7,393	23
24	75	557.29	1	7,950	24
25	14	147.33	1	8,098	25

Galian					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	23	61,697.17	1	61,697	1
2	67	16,869.12	1	78,566	2
3	99	74,257.82	1	152,824	3
4	23	61,697.17	1	214,521	4
5	90	74,257.82	1	288,779	5
6	8	61,697.17	1	350,476	6
7	61	16,869.12	1	367,345	7
8	65	16,869.12	1	384,215	8
9	65	16,869.12	1	401,084	9
10	1	61,697.17	1	462,781	10
11	19	61,697.17	1	524,478	11
12	8	61,697.17	1	586,175	12
13	3	61,697.17	1	647,872	13
14	1	61,697.17	1	709,569	14
15	15	61,697.17	1	771,267	15
16	1	61,697.17	1	832,964	16
17	63	16,869.12	1	849,833	17
18	11	61,697.17	1	911,530	18
19	22	61,697.17	1	973,227	19
20	63	16,869.12	1	990,096	20
21	1	61,697.17	1	1,051,794	21
22	12	61,697.17	1	1,113,491	22
23	10	61,697.17	1	1,175,188	23
24	78	74,257.82	1	1,249,446	24
25	98	74,257.82	1	1,323,704	25

Proyek baru	6895.47
Unit per hari	323.902
6895.47 m ³	21

Proyek baru	6895.47
Biaya per unit	52,948.144
6895.47 m ³	365,102,337

Pekerjaan : Pasir Urug

Tahun	Biaya	volume	satuan	durasi	volume/hari	biaya satuan
2008	3,339,208	48.5703	m ³	6	8.0951	85,482
2008	2,031,674	37.216	m ³	4	9.3040	67,878
2010	2,517,120	28.8	m ³	4	7.2000	114,388
2010	2,825,796	50.778	m ³	7	7.254	72,834

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	8	25	0	24
2	9	29	25	54
3	7	23	55	76
4	7	23	77	100
Total	15	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	85,483	23	0	22
2	92,819	25	23	48
3	114,389	31	49	79
4	72,834	20	80	100
Total	365,525	100		

pasir urug					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	1	8.10	1	8	1
2	49	9.30	1	17	2
3	47	9.30	1	27	3
4	1	8.10	1	35	4
5	45	9.30	1	44	5
6	2	8.10	1	52	6
7	23	8.10	1	60	7
8	50	9.30	1	70	8
9	43	9.30	1	79	9
10	70	7.20	1	86	10
11	69	7.20	1	93	11
12	11	8.10	1	101	12
13	32	9.30	1	111	13
14	14	8.10	1	119	14
15	44	9.30	1	128	15
16	42	9.30	1	137	16
17	35	9.30	1	147	17
18	62	7.20	1	154	18
19	23	8.10	1	162	19
20	43	9.30	1	171	20
21	19	8.10	1	179	21
22	77	7.25	1	187	22
23	51	9.30	1	196	23
24	27	9.30	1	205	24
25	50	9.30	1	215	25

pasir urug					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	55	114,389	1	114,389	1
2	99	72,834	1	187,223	2
3	60	114,389	1	301,612	3
4	1	85,483	1	387,094	4
5	45	92,819	1	479,913	5
6	15	85,483	1	565,396	6
7	8	85,483	1	650,879	7
8	1	85,483	1	736,362	8
9	95	72,834	1	809,197	9
10	1	85,483	1	894,679	10
11	97	72,834	1	967,514	11
12	83	72,834	1	1,040,348	12
13	1	85,483	1	1,125,831	13
14	14	85,483	1	1,211,314	14
15	21	85,483	1	1,296,797	15
16	81	72,834	1	1,369,631	16
17	99	72,834	1	1,442,466	17
18	91	72,834	1	1,515,300	18
19	23	92,819	1	1,608,119	19
20	51	114,389	1	1,722,508	20
21	96	72,834	1	1,795,342	21
22	83	72,834	1	1,868,176	22
23	17	85,483	1	1,953,659	23
24	2	85,483	1	2,039,142	24
25	50	114,389	1	2,153,531	25

Proyek baru	186.62
Unit per hari	8.583
186.62 m ³	22

Proyek baru	6895.47
Biaya per unit	86,141.23
6895.47 m ³	16,075,676.85

Pekerjaan : Urug kembali & pemadatan

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	6,551,162	291.4218	m ³	4	72.8555	52,840
2008	1,719,349	294.66134	m ³	4	73.6653	13,715
2010	4,966,172	125	m ³	3	41.6667	78,580
2010	22,337,414	3495.136	m ³	7	499.3051429	12,640

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	73	11	0	10
2	74	11	11	20
3	42	6	21	26
4	499	73	27	100
Total	372	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	52,840	33	0	32
2	13,715	9	33	41
3	78,580	50	42	91
4	12,641	8	92	100
Total	157,776	100		

Urug Kembali+Pemadatan					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	74	499	1	499	1
2	53	499	1	999	2
3	57	499	1	1,498	3
4	28	499	1	1,997	4
5	30	499	1	2,497	5
6	1	73	1	2,569	6
7	29	499	1	3,069	7
8	6	73	1	3,142	8
9	92	499	1	3,641	9
10	29	499	1	4,140	10
11	22	42	1	4,182	11
12	18	74	1	4,255	12
13	36	499	1	4,755	13
14	32	499	1	5,254	14
15	14	74	1	5,328	15
16	1	73	1	5,401	16
17	65	499	1	5,900	17
18	12	74	1	5,974	18
19	38	499	1	6,473	19
20	4	73	1	6,546	20
21	28	499	1	7,045	21
22	25	42	1	7,087	22
23	1	73	1	7,160	23
24	1	73	1	7,232	24
25	85	499	1	7,732	25

Urug Kembali+Pemadatan					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	99	12,641	1	12,641	1
2	34	13,715	1	26,356	2
3	57	78,580	1	104,936	3
4	28	52,840	1	157,776	4
5	30	52,840	1	210,616	5
6	40	13,715	1	224,332	6
7	41	13,715	1	238,047	7
8	6	52,840	1	290,887	8
9	92	12,641	1	303,528	9
10	94	12,641	1	316,168	10
11	22	52,840	1	369,009	11
12	18	52,840	1	421,849	12
13	36	13,715	1	435,564	13
14	94	12,641	1	448,205	14
15	39	13,715	1	461,920	15
16	1	52,840	1	514,760	16
17	35	13,715	1	528,476	17
18	12	52,840	1	581,316	18
19	38	13,715	1	595,031	19
20	4	52,840	1	647,871	20
21	35	13,715	1	661,587	21
22	96	12,641	1	674,227	22
23	37	13,715	1	687,943	23
24	92	12,641	1	700,583	24
25	85	78,580	1	779,163	25

Proyek baru	1955.25
Unit per hari	309.269
1955.25 m ³	6

Proyek baru	1955.25
Biaya per unit	31,166.529
1955.25 m ³	60,938,356

Pekerjaan : Lantai Kerja

Tahun	Biaya	volume	satuan	durasi	volume/hari	biaya satuan
2008	9,971,334	22.66	m ³	3	7.55	608,996
2008	7,234,379	15.95	m ³	3	5.31	627,711
2010	10,540,057	30.1	m ³	3	10.03	620,003
2010	10,240,165	29.41	m ³	3	9.80	616,431

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	8	23	0	22
2	5	16	23	38
3	10	31	39	69
4	10	30	70	100
Total	33	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	614,635	25	0	24
2	633,523	25	25	49
3	625,744	25	50	74
4	622,140	25	75	100
Total	33	100		

Lantai Kerja					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	8	8	1	8	1
2	26	5	1	13	2
3	5	8	1	20	3
4	49	10	1	30	4
5	44	10	1	40	5
6	7	8	1	48	6
7	14	8	1	56	7
8	5	8	1	63	8
9	61	10	1	73	9
10	74	10	1	83	10
11	38	5	1	88	11
12	21	8	1	96	12
13	25	5	1	101	13
14	2	8	1	109	14
15	1	8	1	116	15
16	5	8	1	124	16
17	64	10	1	134	17
18	33	5	1	139	18
19	52	10	1	149	19
20	51	10	1	159	20
21	25	5	1	165	21
22	25	5	1	170	22
23	22	8	1	177	23
24	1	8	1	185	24
25	54	10	1	195	25

Lantai Kerja					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	8	614,635	1	614,635	1
2	26	633,523	1	1,248,159	2
3	5	614,635	1	1,862,794	3
4	49	633,523	1	2,496,318	4
5	44	633,523	1	3,129,841	5
6	7	614,635	1	3,744,476	6
7	14	614,635	1	4,359,112	7
8	5	614,635	1	4,973,747	8
9	61	625,744	1	5,599,491	9
10	74	625,744	1	6,225,235	10
11	38	633,523	1	6,858,758	11
12	21	614,635	1	7,473,394	12
13	25	633,523	1	8,106,917	13
14	2	614,635	1	8,721,553	14
15	1	614,635	1	9,336,188	15
16	5	614,635	1	9,950,823	16
17	64	625,744	1	10,576,567	17
18	33	633,523	1	11,210,091	18
19	52	625,744	1	11,835,835	19
20	51	625,744	1	12,461,578	20
21	25	633,523	1	13,095,102	21
22	25	633,523	1	13,728,625	22
23	22	614,635	1	14,343,261	23
24	1	614,635	1	14,957,896	24
25	54	625,744	1	15,583,640	25

Proyek baru	39.78
Unit per hari	7.802
39.78 m ³	5

Proyek baru	39.78
Biaya per unit	623,345.599
39.78 m ³	24,796,688

Pekerjaan : Beton Poer dan Sloof

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	232,421,248	68.436	m ³	4	17.10	4,383,640
2008	103,342,671	18.855	m ³	2	9.42	7,074,517
2010	102,787,495	44.719	m ³	3	14.90	5,416,362
2010	42,893,414	18.683	m ³	2	9.34	5,409,86

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	17	34	0 33
2	9	19	34 51
3	15	29	52 81
4	9	18	82 100
Total	50	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	1,498,837	20	0 19
2	2,418,892	32	20 50
3	1,851,942	24	51 75
4	1,849,720	24	76 100
Total	7,619,391	100	

poer dan sloof					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	14	17	1	17	1
2	48	9	1	27	2
3	24	17	1	44	3
4	20	17	1	61	4
5	36	9	1	70	5
6	14	17	1	87	6
7	17	17	1	104	7
8	1	17	1	122	8
9	75	15	1	136	9
10	67	15	1	151	10
11	27	17	1	168	11
12	24	17	1	186	12
13	49	9	1	195	13
14	18	17	1	212	14
15	5	17	1	229	15
16	1	17	1	246	16
17	32	17	1	263	17
18	52	15	1	278	18
19	39	9	1	288	19
20	22	17	1	305	20
21	1	17	1	322	21
22	7	17	1	339	22
23	17	17	1	356	23
24	2	17	1	373	24
25	46	9	1	383	25

poer dan sloof					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	91	1,849,720	1	1,849,720	1
2	48	2,418,892	1	4,268,612	2
3	39	2,418,892	1	6,687,504	3
4	50	2,418,892	1	9,106,396	4
5	36	2,418,892	1	11,525,288	5
6	14	1,498,837	1	13,024,125	6
7	17	1,498,837	1	14,522,962	7
8	1	1,498,837	1	16,021,800	8
9	75	1,851,942	1	17,873,742	9
10	67	1,851,942	1	19,725,684	10
11	27	2,418,892	1	22,144,576	11
12	24	2,418,892	1	24,563,468	12
13	49	2,418,892	1	26,982,359	13
14	18	1,498,837	1	28,481,197	14
15	5	1,498,837	1	29,980,034	15
16	1	1,498,837	1	31,478,872	16
17	86	1,849,720	1	33,328,591	17
18	52	1,851,942	1	35,180,533	18
19	39	2,418,892	1	37,599,425	19
20	22	2,418,892	1	40,018,317	20
21	45	2,418,892	1	42,437,209	21
22	7	1,498,837	1	43,936,047	22
23	17	1,498,837	1	45,434,884	23
24	2	1,498,837	1	46,933,722	24
25	46	2,418,892	1	49,352,613	25

Proyek baru	461.49
Unit per hari	15.308
461.49 m ³	30

Proyek baru	461.49
Biaya per unit	1,974,104.540
461.49 m ³	911,029,504

Pekerjaan : Beton Balok & Plat Lt Basement

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	-	0.0000	-
2008	164,022,564	48.744	m ³	5	9.7488	504,746
2010	87,582,843	27.275	m ³	3	9.0919	2,316,528
2010	48,521,506	44.118	m ³	4	11.0295	793,442

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	-	-	-	-
2	10	33	0	32
3	9	30	33	62
4	11	37	63	100
Total	30	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	-	-		
2	504,747	19	0	18
3	1,621,923	60	19	78
4	555,530	21	79	100
Total	2,682,200	100		

Lantai Basement					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	68	11	1	11	1
2	49	9	1	20	2
3	70	11	1	31	3
4	19	10	1	41	4
5	7	10	1	51	5
6	1	10	1	60	6
7	99	11	1	71	7
8	56	9	1	81	8
9	44	9	1	90	9
10	5	10	1	99	10
11	16	10	1	109	11
12	1	10	1	119	12
13	24	10	1	129	13
14	53	9	1	138	14
15	75	11	1	149	15
16	20	10	1	158	16
17	7	10	1	168	17
18	1	10	1	178	18
19	48	9	1	187	19
20	40	9	1	196	20
21	16	10	1	206	21
22	8	10	1	216	22
23	10	10	1	225	23
24	3	10	1	235	24
25	35	10	1	245	25

Lantai Basement					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	68	1,621,923	1	1,621,923	1
2	49	1,621,923	1	3,243,846	2
3	70	1,621,923	1	4,865,769	3
4	19	1,621,923	1	6,487,692	4
5	7	504,747	1	6,992,439	5
6	1	504,747	1	7,497,186	6
7	99	555,530	1	8,052,716	7
8	56	1,621,923	1	9,674,640	8
9	44	1,621,923	1	11,296,563	9
10	5	504,747	1	11,801,310	10
11	16	504,747	1	12,306,056	11
12	1	504,747	1	12,810,803	12
13	24	1,621,923	1	14,432,726	13
14	53	1,621,923	1	16,054,650	14
15	75	1,621,923	1	17,676,573	15
16	20	1,621,923	1	19,298,496	16
17	7	504,747	1	19,803,243	17
18	1	504,747	1	20,307,990	18
19	48	1,621,923	1	21,929,913	19
20	40	1,621,923	1	23,551,836	20
21	16	504,747	1	24,056,583	21
22	8	504,747	1	24,561,330	22
23	10	504,747	1	25,066,076	23
24	3	504,747	1	25,570,823	24
25	35	1,621,923	1	27,192,746	25

Proyek baru	279.92
Unit per hari	9.796
279.92 m ³	29

Proyek baru	279.92
Biaya per unit	1,087,709.858
279.92 m ³	304,471,744

Pekerjaan : Beton Balok & Plat Lt 1

Tahun	Biaya	volume	sat	durasi	volume/hari	Biaya satuan
2008	692,908,040	176.7	m ³	16	11.0438	3,022,611
2008	132,880,343	32.562	m ³	9	3.6180	3,145,523
2010	383,347,706	151.498	m ³	16	9.4686	3,105,451
2010	108,627,893	44.4258	m ³	10	4.44258	3,000,854

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	11	39	0	38
2	4	13	39	50
3	9	33	51	83
4	4	16	84	100
Total	28	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	898,548	25	0	24
2	935,086	26	25	49
3	923,174	25	50	75
4	892,080	24	76	100
Total	3,648,888	100		

Lantai 1					
No	Bilangan Random	volume/hari	Hari	volume/hari Kumulatif	Hari Kumulatif
1	77	9	1	9	1
2	63	9	1	19	2
3	35	11	1	30	3
4	20	11	1	41	4
5	8	11	1	52	5
6	22	11	1	63	6
7	24	11	1	74	7
8	3	11	1	85	8
9	97	4	1	90	9
10	54	9	1	99	10
11	50	4	1	103	11
12	39	4	1	106	12
13	48	4	1	110	13
14	7	11	1	121	14
15	9	11	1	132	15
16	1	11	1	143	16
17	78	9	1	153	17
18	49	4	1	156	18
19	71	9	1	166	19
20	23	11	1	177	20
21	1	11	1	188	21
22	26	11	1	199	22
23	10	11	1	210	23
24	2	11	1	221	24
25	40	4	1	224	25

Lantai 1					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Kumulatif	Volume Kumulatif
1	77	892,080	1	892,080	1
2	63	923,174	1	1,815,254	2
3	35	935,086	1	2,750,340	3
4	20	898,548	1	3,648,888	4
5	8	898,548	1	4,547,435	5
6	22	898,548	1	5,445,983	6
7	24	898,548	1	6,344,531	7
8	3	898,548	1	7,243,078	8
9	97	892,080	1	8,135,158	9
10	54	923,174	1	9,058,332	10
11	50	923,174	1	9,981,506	11
12	39	935,086	1	10,916,592	12
13	48	935,086	1	11,851,679	13
14	7	898,548	1	12,750,226	14
15	9	898,548	1	13,648,774	15
16	1	898,548	1	14,547,322	16
17	78	892,080	1	15,439,402	17
18	49	935,086	1	16,374,488	18
19	71	923,174	1	17,297,662	19
20	23	898,548	1	18,196,210	20
21	1	898,548	1	19,094,757	21
22	26	935,086	1	20,029,844	22
23	10	898,548	1	20,928,391	23
24	2	898,548	1	21,826,939	24
25	40	935,086	1	22,762,025	25

Proyek baru	400.63
Unit per hari	8.980
400.63 m ³	45

Proyek baru	400.63
Biaya per unit	910,481.008
400.63 m ³	364,766,006

Pekerjaan : Beton Balok & Plat Lt 2

Tahun	Biaya	volume	sat	dur	volume/hari	biaya satuan
2008	713,569,681	180.528	m ³	21	8.5966	2,849,122
2008	392,838,176	68.23575	m ³	10	6.8236	4,149,741
2010	112,785,116	43.785	m ³	7	6.2550	3,227,862
2010	112,888,328	47.9633	m ³	7	6.8519	2,949,365

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	9	30	0	29
2	7	24	30	53
3	6	22	54	75
4	7	24	76	100
Total	29	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	845,974	22	0	21
2	1,232,159	31	22	52
3	958,431	24	53	77
4	875,738	22	78	100
Total	3,912,302	100		

Lantai 2					
No	Bilangan Random	volume/hari	Hari	volume/hari Kumulatif	Hari Kumulatif
1	98	7	1	7	1
2	70	6	1	13	2
3	30	7	1	20	3
4	48	7	1	27	4
5	22	9	1	35	5
6	7	9	1	44	6
7	10	9	1	53	7
8	3	9	1	61	8
9	91	7	1	68	9
10	50	7	1	75	10
11	1	9	1	83	11
12	52	7	1	90	12
13	18	9	1	99	13
14	14	9	1	107	14
15	18	9	1	116	15
16	6	9	1	125	16
17	78	7	1	131	17
18	45	7	1	138	18
19	9	9	1	147	19
20	46	7	1	154	20
21	25	9	1	162	21
22	10	9	1	171	22
23	13	9	1	180	23
24	1	9	1	188	24
25	95	7	1	195	25

Lantai 2					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Kumulatif	Volume Kumulatif
1	98	875,738	1	875,738	1
2	70	958,431	1	1,834,169	2
3	30	1,232,159	1	3,066,328	3
4	48	1,232,159	1	4,298,486	4
5	22	1,232,159	1	5,530,645	5
6	7	845,974	1	6,376,619	6
7	10	845,974	1	7,222,593	7
8	3	845,974	1	8,068,566	8
9	91	875,738	1	8,944,304	9
10	50	1,232,159	1	10,176,463	10
11	1	845,974	1	11,022,437	11
12	52	1,232,159	1	12,254,596	12
13	18	845,974	1	13,100,569	13
14	14	845,974	1	13,946,543	14
15	18	845,974	1	14,792,516	15
16	6	845,974	1	15,638,490	16
17	78	875,738	1	16,514,228	17
18	45	1,232,159	1	17,746,387	18
19	9	845,974	1	18,592,360	19
20	46	1,232,159	1	19,824,519	20
21	25	1,232,159	1	21,056,678	21
22	10	845,974	1	21,902,652	22
23	13	845,974	1	22,748,625	23
24	1	845,974	1	23,594,599	24
25	95	875,738	1	24,470,337	25

Proyek baru	432.04
Unit per hari	7.798
432.04 m ³	55

Proyek baru	432.04
Biaya per unit	978,813.481
432.04 m ³	422,886,576

Pekerjaan : Beton Balok & Plat Lt 3

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	36,285,921	14.7	m ³	6	2.45	962,687
2008	-	-	-	-	-	-
2010	305,532,694	120.2	m ³	14	8.585	3,226,246
2010	101,839,416	41.84	m ³	7	5.978	3,088,888

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	2	14	0	13
2	-	-	-	-
3	9	50	14	64
4	6	35	65	100
Total	15	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	962,688	35	0	34
2	-	-	-	-
3	918,396	33	35	67
4	879,295	32	68	100
Total	1,797,691	65		

Lantai 3					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	58	9	1	9	1
2	63	9	1	17	2
3	29	9	1	26	3
4	6	2	1	28	4
5	28	9	1	37	5
6	1	2	1	39	6
7	74	6	1	45	7
8	27	9	1	54	8
9	40	9	1	62	9
10	7	2	1	65	10
11	33	9	1	73	11
12	1	2	1	76	12
13	25	9	1	84	13
14	16	9	1	93	14
15	64	9	1	102	15
16	31	9	1	110	16
17	24	9	1	119	17
18	87	6	1	125	18
19	12	2	1	127	19
20	56	9	1	136	20
21	9	2	1	138	21
22	1	2	1	141	22
23	53	9	1	149	23
24	71	6	1	155	24
25	31	9	1	164	25

Lantai 3					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	58	918,396	1	918,396	1
2	63	918,396	1	1,836,792	2
3	29	962,688	1	2,799,479	3
4	6	962,688	1	3,762,167	4
5	28	962,688	1	4,724,855	5
6	1	962,688	1	5,687,542	6
7	74	879,295	1	6,566,837	7
8	27	962,688	1	7,529,525	8
9	40	918,396	1	8,447,921	9
10	7	962,688	1	9,410,608	10
11	33	962,688	1	10,373,296	11
12	1	962,688	1	11,335,984	12
13	25	962,688	1	12,298,672	13
14	16	962,688	1	13,261,359	14
15	64	918,396	1	14,179,755	15
16	31	962,688	1	15,142,443	16
17	24	962,688	1	16,105,130	17
18	87	879,295	1	16,984,425	18
19	12	962,688	1	17,947,113	19
20	56	918,396	1	18,865,509	20
21	9	962,688	1	19,828,197	21
22	1	962,688	1	20,790,884	22
23	53	918,396	1	21,709,280	23
24	71	879,295	1	22,588,575	24
25	31	962,688	1	23,551,263	25

Proyek baru	377.29
Unit per hari	6.555
377.29 m ³	58

Proyek baru	377.29
Biaya per unit	942,050.509
377.29 m ³	355,426,237

Pekerjaan : Beton Balok & Plat Lt 4

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	0	-	-
2008	-	-	-	0	-	-
2010	328,440,592	127.72	m ³	14	9.1229	3,361,606
2010	108,608,454	44.9028	m ³	7	6.4146	3,161,834

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	-	-	-	-
2	-	-	-	-
3	9	59	0	58
4	6	41	59	100
Total	15	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	-	-	-	-
2	-	-	-	-
3	921,687	52	0	51
4	866,914	48	52	100
Total	1,788,601	100		

Lantai 4					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	29	9.12	1	9	1
2	36	9.12	1	18	2
3	13	9.12	1	27	3
4	2	9.12	1	36	4
5	96	6.41	1	43	5
6	10	9.12	1	52	6
7	43	9.12	1	61	7
8	1	9.12	1	70	8
9	57	9.12	1	79	9
10	5	9.12	1	89	10
11	41	9.12	1	98	11
12	4	9.12	1	107	12
13	79	6.41	1	113	13
14	24	9.12	1	122	14
15	39	9.12	1	131	15
16	5	9.12	1	141	16
17	87	6.41	1	147	17
18	16	9.12	1	156	18
19	24	9.12	1	165	19
20	3	9.12	1	174	20
21	17	9.12	1	183	21
22	27	9.12	1	193	22
23	25	9.12	1	202	23
24	7	9.12	1	211	24
25	82	6.41	1	217	25

Lantai 4					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	29	921,687.03	1	921,687	1
2	36	921,687.03	1	1,843,374	2
3	13	921,687.03	1	2,765,061	3
4	2	921,687.03	1	3,686,748	4
5	96	866,913.50	1	4,553,662	5
6	10	921,687.03	1	5,475,349	6
7	43	921,687.03	1	6,397,036	7
8	1	921,687.03	1	7,318,723	8
9	57	866,913.50	1	8,185,636	9
10	5	921,687.03	1	9,107,323	10
11	41	921,687.03	1	10,029,010	11
12	4	921,687.03	1	10,950,697	12
13	79	866,913.50	1	11,817,611	13
14	24	921,687.03	1	12,739,298	14
15	39	921,687.03	1	13,660,985	15
16	5	921,687.03	1	14,582,672	16
17	87	866,913.50	1	15,449,585	17
18	16	921,687.03	1	16,371,272	18
19	24	921,687.03	1	17,292,960	19
20	3	921,687.03	1	18,214,647	20
21	17	866,913.50	1	19,081,560	21
22	27	921,687.03	1	20,003,247	22
23	25	921,687.03	1	20,924,934	23
24	7	921,687.03	1	21,846,621	24
25	82	866,913.50	1	22,713,535	25

Proyek baru	270.71
Unit per hari	8.690
270.71 m ³	31

Proyek baru	270.71
Biaya per unit	908,541.386
270.71 m ³	245,951,239

Pekerjaan : Beton Balok & Plat Lt 5

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	0	-	-
2008	-	-	-	0	-	-
2010	332,310,412	127.64	m ³	14	9.1171	3,088,967
2010	101,663,616	32.16	m ³	7	4.5942	3,750,642

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	9	66	0 65
4	5	34	66 100
Total	14	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	847,173	45	0 44
4	1,028,642	55	45 100
Total	1,875,815	100	

Lantai 5					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	90	4.59	1	5	1
2	35	9.12	1	14	2
3	15	9.12	1	23	3
4	1	9.12	1	32	4
5	85	4.59	1	37	5
6	10	9.12	1	46	6
7	38	9.12	1	55	7
8	1	9.12	1	64	8
9	89	4.59	1	68	9
10	4	9.12	1	78	10
11	37	9.12	1	87	11
12	2	9.12	1	96	12
13	73	4.59	1	100	13
14	32	9.12	1	110	14
15	42	9.12	1	119	15
16	2	9.12	1	128	16
17	82	4.59	1	132	17
18	35	9.12	1	141	18
19	16	9.12	1	151	19
20	3	9.12	1	160	20
21	81	4.59	1	164	21
22	3	9.12	1	173	22
23	32	9.12	1	183	23
24	4	9.12	1	192	24
25	83	4.59	1	196	25

Lantai 5					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	90	1,028,642.38	1	1,028,642	1
2	35	847,172.90	1	1,875,815	2
3	15	847,172.90	1	2,722,988	3
4	1	847,172.90	1	3,570,161	4
5	85	1,028,642.38	1	4,598,803	5
6	10	847,172.90	1	5,445,976	6
7	38	847,172.90	1	6,293,149	7
8	1	847,172.90	1	7,140,322	8
9	89	1,028,642.38	1	8,168,965	9
10	4	847,172.90	1	9,016,137	10
11	37	847,172.90	1	9,863,310	11
12	2	847,172.90	1	10,710,483	12
13	73	1,028,642.38	1	11,739,126	13
14	32	847,172.90	1	12,586,298	14
15	42	847,172.90	1	13,433,471	15
16	2	847,172.90	1	14,280,644	16
17	82	1,028,642.38	1	15,309,287	17
18	35	847,172.90	1	16,156,460	18
19	16	847,172.90	1	17,003,632	19
20	3	847,172.90	1	17,850,805	20
21	81	1,028,642.38	1	18,879,448	21
22	3	847,172.90	1	19,726,621	22
23	32	847,172.90	1	20,573,793	23
24	4	1,028,642.38	1	21,602,436	24
25	83	1,028,642.38	1	22,631,078	25

Proyek baru	270.71
Unit per hari	7.851
270.71	m ³ 34

Proyek baru	270.71
Biaya per unit	908,541.386
270.71	m ³ 245,951,239

Pekerjaan : Beton Balok & Plat Atap

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-		-	-
2008	-	-	-		-	-
2010	351,189,890	133.7	m ³	13	10.2846	3,312,127
2010	3,401,691	1.3266	m ³	4	0.33165	3,233,339

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	10	97	0 96
4	0	3	97 100
Total	10	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	927,179	51	0 50
4	905,123	49	51 100
Total	1,832,302	100	

Atap					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	62	10.28	1	10	1
2	42	10.28	1	21	2
3	41	10.28	1	31	3
4	1	10.28	1	41	4
5	69	10.28	1	51	5
6	15	10.28	1	62	6
7	34	10.28	1	72	7
8	1	10.28	1	82	8
9	96	10.28	1	93	9
10	37	10.28	1	103	10
11	21	10.28	1	113	11
12	2	10.28	1	123	12
13	77	10.28	1	134	13
14	32	10.28	1	144	14
15	15	10.28	1	154	15
16	1	10.28	1	165	16
17	42	10.28	1	175	17
18	16	10.28	1	185	18
19	22	10.28	1	195	19
20	3	10.28	1	206	20
21	91	10.28	1	216	21
22	49	10.28	1	226	22
23	20	10.28	1	237	23
24	5	10.28	1	247	24
25	75	10.28	1	257	25

Atap					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	62	905,123.07	1	905,123	1
2	42	927,178.62	1	1,832,302	2
3	41	927,178.62	1	2,759,480	3
4	1	927,178.62	1	3,686,659	4
5	69	905,123.07	1	4,591,782	5
6	15	927,178.62	1	5,518,961	6
7	34	927,178.62	1	6,446,139	7
8	1	927,178.62	1	7,373,318	8
9	96	905,123.07	1	8,278,441	9
10	37	927,178.62	1	9,205,620	10
11	21	927,178.62	1	10,132,798	11
12	2	927,178.62	1	11,059,977	12
13	77	905,123.07	1	11,965,100	13
14	32	927,178.62	1	12,892,278	14
15	15	927,178.62	1	13,819,457	15
16	1	927,178.62	1	14,746,636	16
17	42	927,178.62	1	15,673,814	17
18	16	927,178.62	1	16,600,993	18
19	22	927,178.62	1	17,528,171	19
20	3	927,178.62	1	18,455,350	20
21	91	905,123.07	1	19,360,473	21
22	49	927,178.62	1	20,287,652	22
23	20	927,178.62	1	21,214,830	23
24	5	927,178.62	1	22,142,009	24
25	75	905,123.07	1	23,047,132	25

Proyek baru	243.84
Unit per hari	10.285
243.84 m ³	24

Proyek baru	243.84
Biaya per unit	921,885.283
243.84 m ³	224,792,508

Pekerjaan : Beton Kolom Lt Basement

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	0	-	-
2008	41,440,982	7.735	m ³	3	2.5783	482,183
2010	49,247,960	14.518	m ³	3	4.8393	3,593,368
2010	79,674,633	19.485	m ³	4	4.87125	4,331,516

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	-	-	-
2	3	21	0 20
3	5	39	21 59
4	5	40	60 100
Total	13	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	-	-	-
2	482,183	20	0 19
3	871,704	36	20 55
4	1,050,769	44	56 100
Total	2,404,656	100	

Lantai Basement					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	85	4.87	1	5	1
2	34	4.84	1	10	2
3	41	4.84	1	15	3
4	18	2.58	1	17	4
5	25	4.84	1	22	5
6	32	4.84	1	27	6
7	97	4.87	1	32	7
8	27	4.84	1	37	8
9	46	4.84	1	41	9
10	14	2.58	1	44	10
11	17	2.58	1	47	11
12	1	2.58	1	49	12
13	93	4.87	1	54	13
14	32	4.84	1	59	14
15	43	4.84	1	64	15
16	20	2.58	1	66	16
17	16	2.58	1	69	17
18	1	2.58	1	71	18
19	72	4.87	1	76	19
20	48	4.84	1	81	20
21	42	4.84	1	86	21
22	18	2.58	1	89	22
23	10	2.58	1	91	23
24	3	2.58	1	94	24
25	57	4.87	1	99	25

Lantai Basement					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	85	1,050,769.01	1	1,050,769	1
2	34	871,704.01	1	1,922,473	2
3	41	871,704.01	1	2,794,177	3
4	18	482,183.37	1	3,276,360	4
5	5	482,183.37	1	3,758,544	5
6	1	482,183.37	1	4,240,727	6
7	97	1,050,769.01	1	5,291,496	7
8	27	871,704.01	1	6,163,200	8
9	46	871,704.01	1	7,034,904	9
10	14	482,183.37	1	7,517,088	10
11	17	482,183.37	1	7,999,271	11
12	1	482,183.37	1	8,481,454	12
13	93	1,050,769.01	1	9,532,223	13
14	32	871,704.01	1	10,403,927	14
15	43	871,704.01	1	11,275,631	15
16	20	871,704.01	1	12,147,335	16
17	16	482,183.37	1	12,629,519	17
18	1	482,183.37	1	13,111,702	18
19	72	1,050,769.01	1	14,162,471	19
20	48	871,704.01	1	15,034,175	20
21	42	871,704.01	1	15,905,879	21
22	18	482,183.37	1	16,388,062	22
23	10	482,183.37	1	16,870,246	23
24	3	871,704.01	1	17,741,950	24
25	57	1,050,769.01	1	18,792,719	25

Proyek baru	125.7
Unit per hari	3.941
125.7 m ³	32

Proyek baru	125.7
Biaya per unit	751,708.755
125.7 m ³	94,489,790

Pekerjaan : Beton Kolom Lt 1

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	110,315,985	28.68	m ³	14	2.0486	3,288,355
2008	39,308,862	7.28	m ³	7	1.0400	4,616,136
2010	43,445,556	12.936	m ³	7	1.8480	3,497,644
2010	58,881,946	14.4	m ³	7	2.0571	4,258,435

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	2	29	0	28
2	1	15	29	43
3	2	26	44	70
4	2	29	71	100
Total	7	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	814,462	21	0	20
2	1,143,328	29	21	49
3	866,299	22	50	72
4	1,054,732	27	73	100
Total	3,878,821	100		

Lantai 1					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	84	2.06	1	2	1
2	55	1.85	1	4	2
3	37	1.04	1	5	3
4	45	1.85	1	7	4
5	38	1.04	1	8	5
6	21	2.05	1	10	6
7	16	2.05	1	12	7
8	1	2.05	1	14	8
9	60	1.85	1	16	9
10	45	1.85	1	18	10
11	62	1.85	1	20	11
12	43	1.04	1	21	12
13	36	1.04	1	22	13
14	17	2.05	1	24	14
15	8	2.05	1	26	15
16	1	2.05	1	28	16
17	81	2.06	1	30	17
18	46	1.85	1	32	18
19	4	2.05	1	34	19
20	27	2.05	1	36	20
21	46	1.85	1	38	21
22	11	2.05	1	40	22
23	12	2.05	1	42	23
24	2	2.05	1	44	24
25	83	2.06	1	46	25

Lantai 1					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	84	1,054,731.90	1	1,054,732	1
2	55	866,298.92	1	1,921,031	2
3	37	1,143,327.56	1	3,064,358	3
4	45	1,143,327.56	1	4,207,686	4
5	38	1,143,327.56	1	5,351,014	5
6	21	1,143,327.56	1	6,494,341	6
7	16	814,462.10	1	7,308,803	7
8	1	814,462.10	1	8,123,265	8
9	60	866,298.92	1	8,989,564	9
10	45	1,143,327.56	1	10,132,892	10
11	62	866,298.92	1	10,999,191	11
12	43	1,143,327.56	1	12,142,518	12
13	36	1,143,327.56	1	13,285,846	13
14	17	814,462.10	1	14,100,308	14
15	8	814,462.10	1	14,914,770	15
16	1	814,462.10	1	15,729,232	16
17	81	1,054,731.90	1	16,783,964	17
18	46	1,143,327.56	1	17,927,292	18
19	4	814,462.10	1	18,741,754	19
20	27	1,143,327.56	1	19,885,081	20
21	46	1,143,327.56	1	21,028,409	21
22	11	814,462.10	1	21,842,871	22
23	12	814,462.10	1	22,657,333	23
24	2	814,462.10	1	23,471,795	24
25	83	1,054,731.90	1	24,526,527	25

Proyek baru	184.51
Unit per hari	1.832
184.51 m ³	101

Proyek baru	184.51
Biaya per unit	981,061.079
184.51 m ³	181,015,580

Pekerjaan : Beton Kolom Lt 2

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	27,796,948	5.4	m ³	6	0.9000	3,592,833
2008	56,351,951	8.39	m ³	7	1.1988	4,687,227
2010	40,747,106	12.01	m ³	7	1.7160	3,901,995
2010	55,396,500	15	m ³	7	2.1428	4,248,115

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	1	15	0 14
2	1	20	15 34
3	2	29	35 63
4	2	36	64 100
Total	6	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	839,467	22	0 21
2	1,095,172	29	22 49
3	911,703	24	50 73
4	992,574	26	74 100
Total	3,838,916	100	

Lantai 2					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	77	2.14	1	2	1
2	59	1.72	1	4	2
3	60	1.72	1	6	3
4	50	1.72	1	7	4
5	48	1.72	1	9	5
6	19	1.20	1	10	6
7	2	0.90	1	11	7
8	1	0.90	1	12	8
9	65	2.14	1	14	9
10	73	2.14	1	16	10
11	46	1.72	1	18	11
12	32	1.20	1	19	12
13	46	1.72	1	21	13
14	19	1.20	1	22	14
15	18	1.20	1	23	15
16	1	0.90	1	24	16
17	15	1.20	1	25	17
18	62	1.72	1	27	18
19	22	1.20	1	28	19
20	47	1.72	1	30	20
21	10	0.90	1	31	21
22	16	1.20	1	32	22
23	1	0.90	1	33	23
24	8	0.90	1	34	24
25	24	1.20	1	35	25

Lantai 2					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	77	992,573.90	1	992,574	1
2	59	911,702.68	1	1,904,277	2
3	60	911,702.68	1	2,815,979	3
4	50	911,702.68	1	3,727,682	4
5	48	1,095,172.43	1	4,822,854	5
6	19	839,466.87	1	5,662,321	6
7	2	839,466.87	1	6,501,788	7
8	1	839,466.87	1	7,341,255	8
9	65	911,702.68	1	8,252,958	9
10	73	911,702.68	1	9,164,660	10
11	46	1,095,172.43	1	10,259,833	11
12	32	1,095,172.43	1	11,355,005	12
13	46	1,095,172.43	1	12,450,178	13
14	19	839,466.87	1	13,289,645	14
15	18	1,095,172.43	1	14,384,817	15
16	1	839,466.87	1	15,224,284	16
17	15	839,466.87	1	16,063,751	17
18	62	911,702.68	1	16,975,453	18
19	22	1,095,172.43	1	18,070,626	19
20	47	1,095,172.43	1	19,165,798	20
21	10	839,466.87	1	20,005,265	21
22	16	839,466.87	1	20,844,732	22
23	1	839,466.87	1	21,684,199	23
24	8	839,466.87	1	22,523,666	24
25	24	1,095,172.43	1	23,618,838	25

Proyek baru	134.9
Unit per hari	1.406
134.9 m ³	96

Proyek baru	134.9
Biaya per unit	944,753.526
134.9 m ³	127,447,251

Pekerjaan : Beton Kolom Lt 3

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	33,020,986	6.36	m ³	6	1.0600	467,278
2008	-	-	-	-	0.0000	-
2010	41,191,550	12.012	m ³	7	1.7160	4,693,645
2010	55,845,960	15	m ³	7	2.1428	5,095,866

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	1	22	0 21
2	-	-	- -
3	2	35	22 55
4	2	44	56 100
Total			

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	467,278	20	0 19
2	-	-	- -
3	912,344	38	20 57
4	990,527	42	58 100
Total			

Lantai 3					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	49	1.72	1	2	1
2	1	1.06	1	3	2
3	45	1.72	1	4	3
4	12	1.06	1	6	4
5	4	1.06	1	7	5
6	1	1.06	1	8	6
7	23	1.72	1	9	7
8	39	1.72	1	11	8
9	26	1.72	1	13	9
10	11	1.06	1	14	10
11	8	1.06	1	15	11
12	1	1.06	1	16	12
13	28	1.72	1	18	13
14	34	1.72	1	19	14
15	36	1.72	1	21	15
16	11	1.06	1	22	16
17	12	1.06	1	23	17
18	2	1.06	1	24	18
19	23	1.72	1	26	19
20	8	1.06	1	27	20
21	36	1.72	1	29	21
22	22	1.72	1	31	22
23	14	1.06	1	32	23
24	3	1.06	1	33	24
25	81	2.14	1	35	25

Lantai 3					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	49	912,344.15	1	912,344	1
2	1	467,278.11	1	1,379,622	2
3	45	912,344.15	1	2,291,966	3
4	12	467,278.11	1	2,759,245	4
5	4	467,278.11	1	3,226,523	5
6	1	467,278.11	1	3,693,801	6
7	23	912,344.15	1	4,606,145	7
8	39	912,344.15	1	5,518,489	8
9	26	912,344.15	1	6,430,833	9
10	11	467,278.11	1	6,898,111	10
11	8	467,278.11	1	7,365,389	11
12	1	467,278.11	1	7,832,668	12
13	28	912,344.15	1	8,745,012	13
14	34	912,344.15	1	9,657,356	14
15	36	912,344.15	1	10,569,700	15
16	11	467,278.11	1	11,036,978	16
17	12	467,278.11	1	11,504,256	17
18	2	467,278.11	1	11,971,534	18
19	23	912,344.15	1	12,883,878	19
20	8	467,278.11	1	13,351,157	20
21	36	912,344.15	1	14,263,501	21
22	22	912,344.15	1	15,175,845	22
23	14	467,278.11	1	15,643,123	23
24	3	467,278.11	1	16,110,401	24
25	81	990,527.14	1	17,100,928	25

Proyek baru	106.48
Unit per hari	1.392
106.48 m ³	76

Proyek baru	106.48
Biaya per unit	684,037.128
106.48 m ³	72,836,273

Pekerjaan : Beton Kolom Lt 4

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	-	-	-
2008	-	-	-	-	-	-
2010	41,680,439	12.012	m ³	7	1.7160	6,444,094
2010	44,676,768	12	m ³	7	1.7142	6,914,255

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	2	50	0 49
4	2	50	50 100
Total	4	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	915,939	48	0 47
4	982,766	52	48 100
Total	1,898,705	100	

Lantai 4					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	70	1.71	1	2	1
2	46	1.72	1	3	2
3	29	1.72	1	5	3
4	1	1.72	1	7	4
5	62	1.71	1	9	5
6	26	1.72	1	10	6
7	27	1.72	1	12	7
8	1	1.72	1	14	8
9	57	1.71	1	15	9
10	10	1.72	1	17	10
11	28	1.72	1	19	11
12	2	1.72	1	21	12
13	94	1.71	1	22	13
14	40	1.72	1	24	14
15	27	1.72	1	26	15
16	2	1.72	1	27	16
17	54	1.71	1	29	17
18	43	1.72	1	31	18
19	35	1.72	1	33	19
20	4	1.72	1	34	20
21	62	1.71	1	36	21
22	54	1.71	1	38	22
23	15	1.72	1	39	23
24	7	1.72	1	41	24
25	53	1.71	1	43	25

Lantai 4					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	70	982,766.09	1	982,766	1
2	46	915,939.15	1	1,898,705	2
3	29	915,939.15	1	2,814,644	3
4	1	915,939.15	1	3,730,584	4
5	62	982,766.09	1	4,713,350	5
6	26	915,939.15	1	5,629,289	6
7	27	915,939.15	1	6,545,228	7
8	1	915,939.15	1	7,461,167	8
9	57	982,766.09	1	8,443,933	9
10	10	915,939.15	1	9,359,872	10
11	28	915,939.15	1	10,275,811	11
12	2	915,939.15	1	11,191,751	12
13	94	982,766.09	1	12,174,517	13
14	40	915,939.15	1	13,090,456	14
15	27	915,939.15	1	14,006,395	15
16	2	915,939.15	1	14,922,334	16
17	54	915,939.15	1	15,838,273	17
18	43	915,939.15	1	16,754,212	18
19	35	915,939.15	1	17,670,152	19
20	4	915,939.15	1	18,586,091	20
21	62	982,766.09	1	19,568,857	21
22	54	982,766.09	1	20,551,623	22
23	15	915,939.15	1	21,467,562	23
24	7	915,939.15	1	22,383,501	24
25	53	982,766.09	1	23,366,267	25

Proyek baru	50.28
Unit per hari	1.715
50.28 m ³	29

Proyek baru	50.28
Biaya per unit	934,650.692
50.28 m ³	46,994,237

Pekerjaan : Beton Kolom Lt 5

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	-	-	-
2008	-	-	-	-	-	-
2010	42,217,375	12.012	m ³	7	1.7160	6,471,519
2010	37,380,470	10	m ³	7	1.4285	6,882,958

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	-	-	-	-
2	-	-	-	-
3	2	55	0	54
4	1	45	55	100
Total				

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	-	-	-	-
2	-	-	-	-
3	917,897	48	0	47
4	976,254	52	48	100
Total				

Lantai 5					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	54	1.72	1	2	1
2	35	1.72	1	3	2
3	46	1.72	1	5	3
4	1	1.72	1	7	4
5	20	1.72	1	9	5
6	32	1.72	1	10	6
7	9	1.72	1	12	7
8	1	1.72	1	14	8
9	58	1.43	1	15	9
10	44	1.72	1	17	10
11	27	1.72	1	19	11
12	1	1.72	1	20	12
13	87	1.43	1	22	13
14	27	1.72	1	23	14
15	8	1.72	1	25	15
16	3	1.72	1	27	16
17	79	1.43	1	28	17
18	48	1.72	1	30	18
19	34	1.72	1	32	19
20	4	1.72	1	33	20
21	86	1.43	1	35	21
22	41	1.72	1	37	22
23	14	1.72	1	38	23
24	1	1.72	1	40	24
25	92	1.43	1	41	25

Lantai 5					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	54	976,254.03	1	976,254	1
2	35	917,897.08	1	1,894,151	2
3	46	917,897.08	1	2,812,048	3
4	1	917,897.08	1	3,729,945	4
5	20	917,897.08	1	4,647,842	5
6	32	917,897.08	1	5,565,739	6
7	9	917,897.08	1	6,483,637	7
8	1	917,897.08	1	7,401,534	8
9	58	976,254.03	1	8,377,788	9
10	44	917,897.08	1	9,295,685	10
11	27	917,897.08	1	10,213,582	11
12	1	917,897.08	1	11,131,479	12
13	87	976,254.03	1	12,107,733	13
14	27	917,897.08	1	13,025,630	14
15	8	917,897.08	1	13,943,527	15
16	3	917,897.08	1	14,861,424	16
17	79	976,254.03	1	15,837,678	17
18	48	976,254.03	1	16,813,932	18
19	34	917,897.08	1	17,731,829	19
20	4	917,897.08	1	18,649,726	20
21	86	976,254.03	1	19,625,980	21
22	41	917,897.08	1	20,543,878	22
23	14	917,897.08	1	21,461,775	23
24	1	917,897.08	1	22,379,672	24
25	92	976,254.03	1	23,355,926	25

Proyek baru	50.28
Unit per hari	1.659
50.28 m ³	30

Proyek baru	50.28
Biaya per unit	934,650.692
50.28 m ³	46,994,237

Pekerjaan : Beton Kolom Atap

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	-	-	-
2008	-	-	-	-	-	-
2010	708,543	0.2016	m ³	2	0.1008	474,471.00
2010	-	-	-	-	-	-

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	0,1	100	0 99
4	-	-	-
Total	0,1	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	-	-	-
2	-	-	-
3	474,471	100	0 99
4	-	-	-
Total			

Atap					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	53	0.10	1	0	1
2	40	0.10	1	0	2
3	84	0.10	1	0	3
4	82	0.10	1	0	4
5	67	0.10	1	1	5
6	72	0.10	1	1	6
7	99	0.10	1	1	7
8	49	0.10	1	1	8
9	41	0.10	1	1	9
10	69	0.10	1	1	10
11	17	0.10	1	1	11
12	42	0.10	1	1	12
13	54	0.10	1	1	13
14	81	0.10	1	1	14
15	54	0.10	1	2	15
16	42	0.10	1	2	16
17	50	0.10	1	2	17
18	22	0.10	1	2	18
19	61	0.10	1	2	19
20	48	0.10	1	2	20
21	68	0.10	1	2	21
22	88	0.10	1	2	22
23	37	0.10	1	2	23
24	30	0.10	1	2	24
25	29	0.10	1	3	25

Atap					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	53	474,471.00	1	474,471	1
2	40	474,471.00	1	948,942	2
3	84	474,471.00	1	1,423,413	3
4	82	474,471.00	1	1,897,884	4
5	67	474,471.00	1	2,372,355	5
6	72	474,471.00	1	2,846,826	6
7	99	474,471.00	1	3,321,297	7
8	49	474,471.00	1	3,795,768	8
9	41	474,471.00	1	4,270,239	9
10	69	474,471.00	1	4,744,710	10
11	17	474,471.00	1	5,219,181	11
12	42	474,471.00	1	5,693,652	12
13	54	474,471.00	1	6,168,123	13
14	81	474,471.00	1	6,642,594	14
15	54	474,471.00	1	7,117,065	15
16	42	474,471.00	1	7,591,536	16
17	50	474,471.00	1	8,066,007	17
18	22	474,471.00	1	8,540,478	18
19	61	474,471.00	1	9,014,949	19
20	48	474,471.00	1	9,489,420	20
21	68	474,471.00	1	9,963,891	21
22	88	474,471.00	1	10,438,362	22
23	37	474,471.00	1	10,912,833	23
24	30	474,471.00	1	11,387,304	24
25	29	474,471.00	1	11,861,775	25

Proyek baru	23.07
Unit per hari	0.101
23.07 m ³	229

Proyek baru	23.07
Biaya per unit	474,471.000
23.07 m ³	10,946,046

Pekerjaan : Pasangan Batu Kali

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	-	-	-
2008	6,163,962	14.28	m ³	5	2.8560	226,616
2010	53,264,435	158.4308	m ³	14	11.3165	460,977
2010	22,345,086	68.9344	m ³	9	7.6593	444,454

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random	
1	-	-	-	-
2	3	13	0	12
3	11	52	13	64
4	8	35	65	100
Total	22	100		

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random	
1	-	-	-	-
2	226,616	20	0	19
3	460,977	41	20	60
4	444,455	39	61	100
Total	1,132,048	100		

Batu Kali

No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	52	11.32	1	11	1
2	58	11.32	1	23	2
3	36	11.32	1	34	3
4	19	11.32	1	45	4
5	6	2.86	1	48	5
6	1	2.86	1	51	6
7	79	7.66	1	59	7
8	46	11.32	1	70	8
9	11	2.86	1	73	9
10	17	11.32	1	84	10
11	18	11.32	1	95	11
12	1	2.86	1	98	12
13	40	11.32	1	110	13
14	61	11.32	1	121	14
15	25	11.32	1	132	15
16	18	11.32	1	144	16
17	10	2.86	1	146	17
18	2	2.86	1	149	18
19	58	11.32	1	161	19
20	45	11.32	1	172	20
21	55	11.32	1	183	21
22	22	11.32	1	195	22
23	9	2.86	1	197	23
24	1	2.86	1	200	24
25	54	11.32	1	212	25

Proyek baru 301.89

Unit per hari 8.463

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Batu Kali

No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	52	460,977.10	1	460,977	1
2	58	460,977.10	1	921,954	2
3	36	460,977.10	1	1,382,931	3
4	19	226,616.25	1	1,609,548	4
5	6	226,616.25	1	1,836,164	5
6	1	226,616.25	1	2,062,780	6
7	79	444,454.87	1	2,507,235	7
8	46	460,977.10	1	2,968,212	8
9	11	226,616.25	1	3,194,828	9
10	17	226,616.25	1	3,421,445	10
11	18	226,616.25	1	3,648,061	11
12	1	226,616.25	1	3,874,677	12
13	40	460,977.10	1	4,335,654	13
14	61	444,454.87	1	4,780,109	14
15	25	460,977.10	1	5,241,086	15
16	18	226,616.25	1	5,467,702	16
17	10	226,616.25	1	5,694,319	17
18	2	226,616.25	1	5,920,935	18
19	58	460,977.10	1	6,381,912	19
20	45	460,977.10	1	6,842,889	20
21	55	460,977.10	1	7,303,866	21
22	22	460,977.10	1	7,764,843	22
23	9	226,616.25	1	7,991,460	23
24	1	226,616.25	1	8,218,076	24
25	54	460,977.10	1	8,679,053	25

Proyek baru 301.89

Biaya per unit 347,162.115

104,804,771

Pekerjaan : Plesteran Beton

Tahun	Biaya	volume	sat	durasi	volume/hari	biaya satuan
2008	-	-	-	-	-	-
2008	16,757,886	522.02	m ²	7	74.5743	26,965
2010	3,023,698	106.92	m ²	4	26.7300	41,078
2010	52,267,091	1899.7925	m ²	10	189.97925	39,962

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	-	-	-
2	75	26	0 25
3	27	9	26 34
4	190	65	35 100
Total	292	100	

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	-	-	-
2	26,966	20	0 19
3	54,769	41	20 60
4	53,282	39	61 100
Total	135,017	100	

Plesteran Beton					
No	Bilangan Random	volume/hari	Hari	volume/hari Kumulatif	Hari Kumulatif
1	94	189.98	1	190	1
2	59	189.98	1	380	2
3	53	189.98	1	570	3
4	18	74.57	1	645	4
5	15	74.57	1	719	5
6	1	74.57	1	794	6
7	60	189.98	1	984	7
8	51	189.98	1	1,174	8
9	59	189.98	1	1,364	9
10	16	74.57	1	1,438	10
11	18	74.57	1	1,513	11
12	1	74.57	1	1,587	12
13	92	189.98	1	1,777	13
14	55	189.98	1	1,967	14
15	6	74.57	1	2,042	15
16	35	189.98	1	2,232	16
17	75	189.98	1	2,422	17
18	1	74.57	1	2,496	18
19	42	189.98	1	2,686	19
20	77	189.98	1	2,876	20
21	35	189.98	1	3,066	21
22	19	74.57	1	3,141	22
23	88	189.98	1	3,331	23
24	3	74.57	1	3,405	24
25	61	189.98	1	3,595	25

Plesteran Beton					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Kumulatif	Volume Kumulatif
1	94	53,281.84	1	53,282	1
2	59	54,769.21	1	108,051	2
3	53	54,769.21	1	162,820	3
4	18	26,965.68	1	189,786	4
5	30	54,769.21	1	244,555	5
6	55	54,769.21	1	299,324	6
7	60	54,769.21	1	354,094	7
8	51	54,769.21	1	408,863	8
9	59	54,769.21	1	463,632	9
10	16	26,965.68	1	490,598	10
11	25	54,769.21	1	545,367	11
12	1	26,965.68	1	572,333	12
13	92	53,281.84	1	625,614	13
14	55	54,769.21	1	680,384	14
15	6	26,965.68	1	707,349	15
16	99	53,281.84	1	760,631	16
17	35	54,769.21	1	815,400	17
18	1	54,769.21	1	870,170	18
19	42	54,769.21	1	924,939	19
20	77	53,281.84	1	978,221	20
21	35	54,769.21	1	1,032,990	21
22	99	53,281.84	1	1,086,272	22
23	24	54,769.21	1	1,141,041	23
24	55	54,769.21	1	1,195,810	24
25	61	53,281.84	1	1,249,092	25

Unit per hari				143.817
Proyek Baru				
Basement	709.9	m ²	5	
Lantai 1	1,079.68	m ²	8	
Lantai 2	707.70	m ²	5	
Lantai 3	669.20	m ²	5	
Lantai 4	472.15	m ²	3	
Lantai 5	472.15	m ²	3	
Atap	148.64	m ²	2	

Biaya per unit				49,963.676
Proyek baru				
Basement	709.9	m ²	35,469,214	
Lantai 1	1,079.68	m ²	53,944,051	
Lantai 2	707.70	m ²	35,468,733	
Lantai 3	669.20	m ²	34,584,388	
Lantai 4	472.15	m ²		
Lantai 5	472.15	m ²		
Atap	148.64	m ²		

Pekerjaan : Plesteran Dinding Finishing

Tahun	Biaya	volume	satuan	durasi	volume/hari	biaya satuan
2008	-	-	-	-	-	-
2008	11,495,773	419.35	m ³	14	29.9539	33,032
2010	4,267,252	165.5	m ³	9	18.3889	64,493
2010	5,399,790	231.88	m ³	11	21.08	58,247

Simulasi Volume Pekerjaan per Hari

Data	volume/hari	probabilitas	bilangan random
1	-	-	-
2	30	43	0
3	18	26	43
4	21	30	70
Total	69	100	100

Simulasi Biaya per Satuan Volume

Data	biaya satuan	probabilitas	bilangan random
1	-	-	-
2	33,033	20	0
3	69,732	42	20
4	62,979	38	62
Total	165,744	100	

Plesteran Dinding Finishing					
No	Bilangan Random	volume/hari	Hari	volume/hari Komulatif	Hari Komulatif
1	70	21.08	1	21	1
2	45	18.39	1	39	2
3	20	29.95	1	69	3
4	15	29.95	1	99	4
5	16	29.95	1	129	5
6	1	29.95	1	159	6
7	64	18.39	1	178	7
8	24	29.95	1	208	8
9	56	18.39	1	226	9
10	17	29.95	1	256	10
11	12	29.95	1	286	11
12	1	29.95	1	316	12
13	78	21.08	1	337	13
14	41	29.95	1	367	14
15	36	29.95	1	397	15
16	15	29.95	1	427	16
17	10	29.95	1	457	17
18	2	29.95	1	487	18
19	95	21.08	1	508	19
20	48	18.39	1	526	20
21	52	18.39	1	545	21
22	17	29.95	1	575	22
23	15	29.95	1	604	23
24	3	29.95	1	634	24
25	27	29.95	1	664	25

Plesteran Dinding Finishing					
No	Bilangan Random	Biaya Satuan	Volume	Biaya Satuan Komulatif	Volume Komulatif
1	70	62,978.56	1	62,979	1
2	45	69,731.57	1	132,710	2
3	20	69,731.57	1	202,442	3
4	25	69,731.57	1	272,173	4
5	45	69,731.57	1	341,905	5
6	1	33,032.67	1	374,938	6
7	64	62,978.56	1	437,916	7
8	24	69,731.57	1	507,648	8
9	56	69,731.57	1	577,379	9
10	31	69,731.57	1	647,111	10
11	29	69,731.57	1	716,842	11
12	50	69,731.57	1	786,574	12
13	78	62,978.56	1	849,552	13
14	41	69,731.57	1	919,284	14
15	36	69,731.57	1	989,016	15
16	41	69,731.57	1	1,058,747	16
17	50	69,731.57	1	1,128,479	17
18	22	69,731.57	1	1,198,210	18
19	95	62,978.56	1	1,261,189	19
20	48	69,731.57	1	1,330,920	20
21	52	69,731.57	1	1,400,652	21
22	17	33,032.67	1	1,433,685	22
23	15	33,032.67	1	1,466,717	23
24	3	33,032.67	1	1,499,750	24
25	27	69,731.57	1	1,569,482	25

Unit per hari				26.576
Proyek baru				
Basement	654.76	m ²	25	
Lantai 1	1,079.68	m ²	41	
Lantai 2	707.70	m ²	27	
Lantai 3	669.20	m ²	25	
Lantai 4	472.15	m ²	18	
Lantai 5	472.15	m ²	18	
Atap	148.64	m ²	6	

Biaya per unit				62,779.265
Proyek baru				
Basement	709.9	m ²	41,105,352	
Lantai 1	1,079.68	m ²	67,781,516	
Lantai 2	707.70	m ²	44,428,885	
Lantai 3	669.20	m ²	42,011,884	
Lantai 4	472.15	m ²	29,641,229	
Lantai 5	472.15	m ²	29,641,229	
Atap	148.64	m ²	9,331,509	