

## **BAB V**

### **PENUTUP**

#### **5.1 Kesimpulan**

Dari hasil penelitian dan pembahasan yang telah dilakukan pada model operasional dan pemeliharaan Stadion Oepoi dapat disimpulkan bahwa:

1. *Life cycle cost* yang dikeluarkan mulai dari perencanaan hingga umur ekonomis bangunan selama 30 tahun adalah Rp Rp. 123.671.268.657, sudah termasuk biaya awal atau biaya pembangunan bangunan sebesar Rp. 75.994.089.620 (61,45%), biaya operasional sebesar Rp. 27.035.108.969 (21,86%), dan biaya perawatan (pemeliharaan dan penggantian) sebesar Rp. 20.642.069.657 (16,69%).
2. Model operasional dan pemeliharaan yang meliputi perencanaan, pengorganisasian, pengendalian pekerjaan anggota (karyawan), pengarahan dan pengawasan sumber daya manusia organisasi (pengendalian) harus dilakukan oleh penanggung jawab Stadion Oepoi dan dapat menjalankan wewenang untuk mengelola operasional yang efisien, efektif dan profesional.

#### **5.2 Saran**

Berdasarkan hasil yang diperoleh dari LCC proyek. Pembangunan Stadion Oepoi di Kupang, biaya perawatan terbesar terdapat pada pekerjaan pengecatan, pekerjaan atap, dan pekerjaan elektrikal sehingga perlu adanya pengawasan lebih lanjut dari bagian petugas kebersihan maupun *maintenance* bangunan stadion, tidak mudah rusak dan lebih terawat. Sehingga dapat menekan biaya pemeliharaan terhadap pekerjaan pengecatan, pekerjaan atap, maupun pekerjaan elektrikal. Penting untuk menentukan dan menyiapkan rencana anggaran untuk biaya pemeliharaan selama periode perencanaan 30 tahun. Saat menentukan biaya jadwal menggunakan LCC, penelitian tambahan dapat dilakukan untuk semua item, terutama item pekerjaan yang memiliki dampak terbesar pada jadwal unit proyek.

## DAFTAR PUSTAKA

- Anonim, (1984) BS 3811: 1984 *Glossary of Maintenance Management Terms in Terotechnology*. British Standards Institute. London: HMSO
- Asworth, A. (1994) *Perencanaan Biaya Bangunan*, PT. Gramedia Pustaka Utama, Jakarta
- Barringer, H., & Weber, D. (1996). *Life Cycle Cost Tutorial In Fifth International Conference on Process Plant Reliability*. Houston, Texas.
- Direktorat Jenderal Cipta Karya, (2008) Peraturan Menteri Pekerjaan Umum Nomor: 24/PRT/M/2008 tentang Pedoman Pemeliharaan dan Perawatan Bangunan Gedung, Departemen Pekerjaan Umum.
- Ervianto WI. 2007. *Studi Pemeliharaan Bangunan Gedung (Studi Kasus Gedung Kampus)*. Yogyakarta : Universitas Atma Jaya Yogyakarta.
- Fuller, S., & Petersen, S. (1995). *Life-Cycle Costing Manual for the Federal Energy Management Program 135*. DC Washington: NIST.
- Kelly, J., dan Male, S. 2005. *Value Management in Design and Construction : The Economic Management of Projects*. London: E & FN. Spon.
- Kirk, S. J., & Dell'Isola, A. J. (1995). *Life Cycle Costing for Design Professionals (Second)*. McGrawHill, Inc. New York.
- Krisnanda, S. F. (2020). Implementasi Life Cycle Cost pada Gedung Bank Mandiri Syariah Yogyakarta. *FROPIL (Forum Profesional Teknik Sipil)*, 8 (1), 46–55. <https://doi.org/10.33019/fropil.v8i1.1780>
- Kristiyanto, Agus (2012) “Penelitian Tindakan kelas“ Surakarta Sebelas Maret Universiti.
- Mulyandari, H., & Saputra, R. A. (2010). *Pemeliharaan Bangunan. Basic Skill Facility Management*. ANDI.
- Puhessti, I. N. (2021). Life Cycle Cost pada Gedung Boarding House Daerah Glagahsar, Yogyakarta. *FROPIL (Forum Profesional Teknik Sipil)*, 9(1), 18–28. <https://doi.org/10.33019/fropil.v9i1.2297>
- Pujawan, IN. 2003. *Ekonomi Teknik*. Guna Widya. Surabaya
- Sieglinde, K. F., & Stephen, R. P. (1995). *Life-Cycle Costing Manual for the Federal Energy Management Program 135*. DC Washington: NIST ed
- Supriyatna, Y., (2011) Estimasi Biaya Pemeliharaan Bangunan Gedung, *Majalah Ilmiah UNIKOM Volume 9 No. 2*. 2011 : 200-202.
- Winartama, A. S., & Saputra, A. H. (2020). Analisis Efisiensi Pada Rencana

Pengadaan dan Pengelolaan Gedung Menggunakan Metode Life Cycle Costing. *Journal of Economic, Bussines and Accounting (COSTING)*, 4(1), 243–254. <https://doi.org/10.539/costing.v4i1.117>





### Lampiran 1. Perhitungan Life Cycle Cost 30 Tahun

No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	1,04	1,082	1,125	1,17	1,217	1,265	1,316	1,369	1,423	1,480
							1	2	3	4	5	6	7	8	9	10
<b>1</b>	<b>PEKERJAAN ATAP</b>															
	Spaceframe + Sandblasting (angkur & base plate)	20	752,05	2.198.467	m2	1.653.357.107										
	Gording Primer & sekunder	20	752,05	385.025	m2	289.558.051										
	Spandek Zincalume	20	752,05	197.804	m2	148.758.498										
	Talang Drainase PVC	15	35,60	169.750	m	6.043.100										
	Rangka Baja Ringan	20	32,90	227.548	M2	7.487.428										
	Atap Spandek	20	1.131,99	130.330	M2	147.531.834										
	Lipslang GRV	15	15,04	158.211	M'	2.379.497										
	Lipslang ACP (Aluminium Composit Panel)	15	211,32	845.342	M2	178.637.671										
	Talang Air Hujan PVC Aw 8"	15	46,15	265.046	M'	12.231.865										
	Pipa PVC 4"	15	95,84	153.707,85	M'	14.731.360										
	Besi Siku Atap + Gording	20	1,00	15.000.000	Ls	15.000.000										
<b>2</b>	<b>PEKERJAAN RAILING</b>															
	Railing Tangga Stainless	10	714,30	109.552	m	78.252.994										115.814.431
<b>3</b>	<b>PEKERJAAN PELAPIS LANTAI/DINDING</b>															
	Dinding Keramik uk. 20x25 cm (KM/WC)	20	419,51	220.000	m2	92.292.750										
	Lantai Keramik uk. 40x40 cm (KM/WC)	20	178,24	250.000	m2	44.560.000										
	lantai Keramik uk. 60x60 cm	20	1.114,83	260.000	m2	289.855.800										
	lantai Keramik LK. 1 60x60 cm Polish	20	1.049,20	314.784	M2	330.270.764										
	lantai Keramik LK. 3 60x60 cm Un Polish	20	308,45	320.879	M2	98.974.890										
	Plint Lantai Keramik uk. 10x60 cm	20	790,41	39.714	M'	31.390.414										
	Lantai Granit uk. 30x30 cm (Toilet VIP)	20	18,10	263.494	M2	4.768.578										
	Lantai Keramik LK 2 30x30 cm (Toilet)	20	66,50	248.544	M2	16.527.662										
	Dinding Granit uk. 30x60 cm (Toilet)	20	25,28	324.591	M2	8.205.659										
	Dinting Keramik LK. 2 30x60 cm (Toilet)	20	251,58	272.841	M2	68.642.418										
	Keramik uk. 30x60 cm (Bangku Tribun)	20	244,65	240.123	M2	58.746.202										
<b>4</b>	<b>PEKERJAAN PLAFOND</b>															
	Plafond PVC PL. 1	15	549,72	318.323	M2	174.987.499										
	List Plafond PVC	15	444,39	51.537	M'	22.902.639										
	Plafond Gypsum PL.2	15	937,07	194.931	M2	182.663.502										
	List Plafond Gypsum	15	778,29	48.110	M'	37.443.726										
	Plafond Calsiboard (Toilet)	15	76,83	186.559	M2	14.332.980										
	List Plafond Calsiboard (Toilet)	15	103,80	41.785	M'	4.337.309										
	Drop Ceiling Tribun Utama	15	19,18	194.931	M2	3.738.198										
<b>5</b>	<b>PEKERJAAN CAT</b>															
	Pengecatan Tembok Baru	8	21.045,44	55.000	m2	1.157.499.024								1.584.616.164		
	Pengecatan Cat Anti Karat Besi Siku Atap	15	1,00	5.000.000	Ls	5.000.000										
	Pengecatan Plafond Gypsum	8	174,91	41.408	M2	7.242.661								9.915.203		
	Pengecatan Seluruh Dinding + Kolom + Balok	8	2.973,82	57.722	M2	171.654.447								234.994.938		
	Pengecatan Kusen Kayu	15	654,95	48.910	M2	32.033.345										
	Pengecatan Pintu dan Jelusi	15	1,00	772.000	Ls	772.000										
	Pengecatan Daun Pintu Panil Papan	15	20,16	48.910	M2	986.016										

No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	1,539	1,601	1,665	1,732	1,801	1,873	1,948	2,026	2,107	2,191	
							11	12	13	14	15	16	17	18	19	20	
<b>1</b>	<b>PEKERJAAN ATAP</b>																
	Spaceframe + Sandblasting (angkur & base plate)	20	752,05	2.198.467	m2	1.653.357.107											3.622.505.422
	Gording Primer & sekunder	20	752,05	385.025	m2	289.558.051											634.421.690
	Spandek Zincaleme	20	752,05	197.804	m2	148.758.498											325.929.870
	Talang Drainase PVC	15	35,60	169.750	m	6.043.100					10.883.623						
	Rangka Baja Ringan	20	32,90	227.548	M2	7.487.428											16.404.955
	Atap Spandek	20	1.131,99	130.330	M2	147.531.834											323.242.248
	Lipslang GRV	15	15,04	158.211	M'	2.379.497					4.285.474						
	Lipslang ACP (Alumunium Composit Panel)	15	211,32	845.342	M2	178.637.671					321.726.446						
	Talang Air Hujan PVC Aw 8"	15	46,15	265.046	M'	12.231.865					22.029.588						
	Pipa PVC 4"	15	95,84	153.707,85	M'	14.731.360					26.531.180						
	Besi Siku Atap + Gording	20	1,00	15.000.000	Ls	15.000.000											32.865.000
<b>2</b>	<b>PEKERJAAN RAILING</b>																
	Railing Tangga Stainless	10	714,30	109.552	m	78.252.994											171.452.309
<b>3</b>	<b>PEKERJAAN PELAPIS LANTAI/DINDING</b>																
	Dinding Keramik uk. 20x25 cm (KM/WC)	20	419,51	220.000	m2	92.292.750											202.213.415
	Lantai Keramik uk. 40x40 cm (KM/WC)	20	178,24	250.000	m2	44.560.000											97.630.960
	lantai Keramik uk. 60x60 cm	20	1.114,83	260.000	m2	289.855.800											635.074.058
	lantai Keramik LK. 1 60x60 cm Polish	20	1.049,20	314.784	M2	330.270.764											723.623.244
	lantai Keramik LK. 3 60x60 cm Un Polish	20	308,45	320.879	M2	98.974.890											216.853.984
	Plint Lantai Keramik uk. 10x60 cm	20	790,41	39.714	M'	31.390.414											68.776.397
	Lantai Granit uk. 30x30 cm (Toilet VIP)	20	18,10	263.494	M2	4.768.578											10.447.955
	Lantai Keramik LK 2 30x30 cm (Toilet)	20	66,50	248.544	M2	16.527.662											36.212.108
	Dinding Granit uk. 30x60 cm (Toilet)	20	25,28	324.591	M2	8.205.659											17.978.599
	Dinting Keramik LK. 2 30x60 cm (Toilet)	20	251,58	272.841	M2	68.642.418											150.395.537
	Keramik uk. 30x60 cm (Bangku Tribun)	20	244,65	240.123	M2	58.746.202											128.712.929
<b>4</b>	<b>PEKERJAAN PLAFOND</b>																
	Plafond PVC PL. 1	15	549,72	318.323	M2	174.987.499					315.152.485						
	List Plafond PVC	15	444,39	51.537	M'	22.902.639					41.247.652						
	Plafond Gypsum PL.2	15	937,07	194.931	M2	182.663.502					328.976.967						
	List Plafond Gypsum	15	778,29	48.110	M'	37.443.726					67.436.151						
	Plafond Calsiboard (Toilet)	15	76,83	186.559	M2	14.332.980					25.813.697						
	List Plafond Calsiboard (Toilet)	15	103,80	41.785	M'	4.337.309					7.811.493						
	Drop Ceiling Tribun Utama	15	19,18	194.931	M2	3.738.198					6.732.495						
<b>5</b>	<b>PEKERJAAN CAT</b>																
	Pengecetan Tembok Baru	8	21.045,44	55.000	m2	1.157.499.024						2.167.995.672					
	Pengecetan Cat Anti Karat Besi Siku Atap	15	1,00	5.000.000	Ls	5.000.000					2.084.655.742						
	Pengecetan Plafond Gypsum	8	174,91	41.408	M2	7.242.661						13.565.505					
	Pengecetan Seluruh Dinding + Kolom + Balok	8	2.973,82	57.722	M2	171.654.447						321.508.779					
	Pengecetan Kusen Kayu	15	654,95	48.910	M2	32.033.345					309.149.659						
	Pengecetan Pintu dan Jelusi	15	1,00	772.000	Ls	772.000					57.692.055						
	Pengecetan Daun Pintu Panil Papan	15	20,16	48.910	M2	986.016					1.390.372						

No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	2,279	2,37	2,465	2,563	2,666	2,772	2,883	2,999	3,119	3,243	
							21	22	23	24	25	26	27	28	29	30	
<b>1</b>	<b>PEKERJAAN ATAP</b>																
	Spaceframe + Sandblasting (angkur & base plate)	20	752,05	2.198.467	m2	1.653.357.107											
	Gording Primer & sekunder	20	752,05	385.025	m2	289.558.051											
	Spandek Zincalume	20	752,05	197.804	m2	148.758.498											
	Talang Drainase PVC	15	35,60	169.750	m	6.043.100										19.597.773	
	Rangka Baja Ringan	20	32,90	227.548	M2	7.487.428											
	Atap Spandek	20	1.131,99	130.330	M2	147.531.834											
	Lipslang GRV	15	15,04	158.211	M'	2.379.497											7.716.709
	Lipslang ACP (Aluminium Composit Panel)	15	211,32	845.342	M2	178.637.671											579.321.968
	Talang Air Hujan PVC Aw 8"	15	46,15	265.046	M'	12.231.865											39.667.937
	Pipa PVC 4"	15	95,84	153.707,85	M'	14.731.360											47.773.802
	Besi Siku Atap + Gording	20	1,00	15.000.000	Ls	15.000.000											
<b>2</b>	<b>PEKERJAAN RAILING</b>																
	Railing Tangga Stainless	10	714,30	109.552	m	78.252.994											253.774.458
<b>3</b>	<b>PEKERJAAN PELAPIS LANTAI/DINDING</b>																
	Dinding Keramik uk. 20x25 cm (KM/WC)	20	419,51	220.000	m2	92.292.750											
	Lantai Keramik uk. 40x40 cm (KM/WC)	20	178,24	250.000	m2	44.560.000											
	lantai Keramik uk. 60x60 cm	20	1.114,83	260.000	m2	289.855.800											
	lantai Keramik LK. 1 60x60 cm Polish	20	1.049,20	314.784	M2	330.270.764											
	lantai Keramik LK. 3 60x60 cm Un Polish	20	308,45	320.879	M2	98.974.890											
	Plint Lantai Keramik uk. 10x60 cm	20	790,41	39.714	M'	31.390.414											
	Lantai Granit uk. 30x30 cm (Toilet VIP)	20	18,10	263.494	M2	4.768.578											
	Lantai Keramik LK 2 30x30 cm (Toilet)	20	66,50	248.544	M2	16.527.662											
	Dinding Granit uk. 30x60 cm (Toilet)	20	25,28	324.591	M2	8.205.659											
	Dinding Keramik LK. 2 30x60 cm (Toilet)	20	251,58	272.841	M2	68.642.418											
	Keramik uk. 30x60 cm (Bangku Tribun)	20	244,65	240.123	M2	58.746.202											
<b>4</b>	<b>PEKERJAAN PLAFOND</b>																
	Plafond PVC PL. 1	15	549,72	318.323	M2	174.987.499											567.484.458
	List Plafond PVC	15	444,39	51.537	M'	22.902.639											74.273.257
	Plafond Gypsum PL.2	15	937,07	194.931	M2	182.663.502											592.377.738
	List Plafond Gypsum	15	778,29	48.110	M'	37.443.726											121.430.005
	Plafond Calsiboard (Toilet)	15	76,83	186.559	M2	14.332.980											46.481.855
	List Plafond Calsiboard (Toilet)	15	103,80	41.785	M'	4.337.309											14.065.893
	Drop Ceiling Tribun Utama	15	19,18	194.931	M2	3.738.198											12.122.976
<b>5</b>	<b>PEKERJAAN CAT</b>																
	Pengecatan Tembok Baru	8	21.045,44	55.000	m2	1.157.499.024				2.966.669.999							
	Pengecatan Cat Anti Karat Besi Siku Atap	15	1,00	5.000.000	Ls	5.000.000											16.215.000
	Pengecatan Plafond Gypsum	8	174,91	41.408	M2	7.242.661				18.562.941							
	Pengecatan Seluruh Dinding + Kolom + Balok	8	2.973,82	57.722	M2	171.654.447				439.950.347							
	Pengecatan Kusen Kayu	15	654,95	48.910	M2	32.033.345											103.884.139
	Pengecatan Pintu dan Jelusi	15	1,00	772.000	Ls	772.000											2.503.596
	Pengecatan Daun Pintu Panil Papan	15	20,16	48.910	M2	986.016											3.197.648

No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	1,04	1,082	1,125	1,17	1,217	1,265	1,316	1,369	1,423	1,480
							1	2	3	4	5	6	7	8	9	10
<b>6</b>	<b>PEKERJAAN PINTU JENDELA</b>															
	Rolling Door Besi	10	120,00	833.417	m2	100.010.040										148.014.859
	Pintu Plat Baja Tebal 2 mm	10	28,40	1.500.000	m2	42.600.000										63.048.000
	Handle Pintu	10	2,00	100.000	Bh	200.000										296.000
	Pintu Aluminium Strip Lebar 8 cm	20	10,08	1.500.000	m2	15.120.000										
	Kusen Pintu Aluminium	20	30,00	500.000	m	15.000.000										
	Engsel Pintu	20	38,00	80.000	bh	3.040.000										
	Kunci Tanam Biasa	5	16,00	225.000	bh	3.600.000				4.381.200						5.328.000
	Daun Pintu UPVC	20	21,00	277.735	m	5.832.435										
	Kusen Pintu Pintu UPVC	20	48,20	277.735	m	13.386.827										
	Kusen Aluminium	20	36,00	168.987	m	6.083.532										
	Kaca Tebal 5 mm	10	3,15	194.979	m2	614.184										908.992
	Pek. Pintu Type P1	20	1,00	17.271.537	Bh	17.271.537										
	Pek. Pintu Type P2	20	6,00	5.108.851	Bh	30.653.107										
	Pek. Pintu Type P3	20	24,00	3.289.966	Bh	78.959.187										
	Pek. Pintu Type P4	20	2,00	2.810.013	Bh	5.620.025										
	Pek. Pintu Type P6	20	1,00	5.741.256	Bh	5.741.256										
	Pek. Pintu Km/Wc Teakwood Lapis Aluminium P5	20	10,00	2.974.670	Bh	29.746.695										
	Pek. PJ1 A	20	1,00	8.071.885	Bh	8.071.885										
	Pek. PJ1 B	20	1,00	8.071.885	Bh	8.071.885										
	Pek. PJ1 C	20	1,00	8.100.420	Bh	8.100.420										
	Pek. PJ1 D	20	1,00	8.071.885	Bh	8.071.885										
	Pek. PJ2 A	20	2,00	11.391.073	Bh	22.782.146										
	Pek. PJ2 B	20	1,00	11.391.073	Bh	11.391.073										
	Pek. PJ3	20	2,00	8.305.694	Bh	16.611.387										
	Pek. Jendela Type J1	20	1,00	7.792.609	Bh	7.792.609										
	Pek. Jendela Type J2	20	6,00	3.372.442	Bh	20.234.651										
	Pek. Jendela Type J3	20	1,00	7.925.232	Bh	7.925.232										
	Pek. Jendela Type J4	20	2,00	7.008.106	Bh	14.016.212										
	Pek. Jendela Type J5	20	2,00	4.860.195	Bh	9.720.391										
	Pek. Jendela Type J6	20	2,00	5.439.907	Bh	10.879.814										
	Pek. Jendela Type J7	20	6,00	10.177.208	Bh	61.063.248										
	Pek. Boven Type BV1	20	3,00	3.372.442	Bh	10.117.326										
	Pek. Boven Type BV2	20	5,00	3.756.000	Bh	18.780.001										
<b>7</b>	<b>PEKERJAAN SANITAIR</b>															
	Pemasangan Closet Duduk (TOTO Type CW-660J /SW-660J)	15	77,00	1.200.000	unit	92.400.000										
	Pemasangan Floor Drain (TOTO Type TX-1A)	3	89,00	300.000	bh	26.700.000			30.037.500			33.775.500			37.994.100	
	Pemasangan Kran (TOTO Type T-23BQ13V7NB)	3	63,00	125.000	bh	7.875.000			8.859.375			9.961.875			11.206.125	
	Pemasangan Jet Shower (Merek TOTO)	8	58,00	300.000	bh	17.400.000								23.820.600		
	Pemasangan Urinoir (TOTO Type U-57M)	15	82,00	1.000.000	unit	82.000.000										
	Pemasangan Wastafel (TOTO Type L-521V1A)	8	45,00	900.000	unit	40.500.000								55.444.500		
	Pemasangan Cermin 1x1,2 m	8	36,00	355.629	unit	12.802.644								17.526.820		
	Pemasangan Bak Air Fiber Vol. 0.3 m3	10	64,00	2.056.890	unit	131.640.960										194.828.621



No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	1,539	1,601	1,665	1,732	1,801	1,873	1,948	2,026	2,107	2,191	
							11	12	13	14	15	16	17	18	19	20	
<b>6</b>	<b>PEKERJAAN PINTU JENDELA</b>					-											
	Rolling Door Besi	10	120,00	833.417	m2	100.010.040											219.121.998
	Pintu Plat Baja Tebal 2 mm	10	28,40	1.500.000	m2	42.600.000											93.336.600
	Handle Pintu	10	2,00	100.000	Bh	200.000											
	Pintu Aluminium Strip Lebar 8 cm	20	10,08	1.500.000	m2	15.120.000											33.127.920
	Kusen Pintu Aluminium	20	30,00	500.000	m	15.000.000											32.865.000
	Engsel Pintu	20	38,00	80.000	bh	3.040.000											6.660.640
	Kunci Tanam Biasa	5	16,00	225.000	bh	3.600.000					6.483.600						7.887.600
	Daun Pintu UPVC	20	21,00	277.735	m	5.832.435											12.778.865
	Kusen Pintu Pintu UPVC	20	48,20	277.735	m	13.386.827											29.330.538
	Kusen Aluminium	20	36,00	168.987	m	6.083.532											13.329.019
	Kaca Tebal 5 mm	10	3,15	194.979	m2	614.184											1.345.677
	Pek. Pintu Type P1	20	1,00	17.271.537	Bh	17.271.537											37.841.938
	Pek. Pintu Type P2	20	6,00	5.108.851	Bh	30.653.107											67.160.958
	Pek. Pintu Type P3	20	24,00	3.289.966	Bh	78.959.187											172.999.579
	Pek. Pintu Type P4	20	2,00	2.810.013	Bh	5.620.025											12.313.475
	Pek. Pintu Type P6	20	1,00	5.741.256	Bh	5.741.256											12.579.091
	Pek. Pintu Km/Wc Teakwood Lapis Aluminium P5	20	10,00	2.974.670	Bh	29.746.695											65.175.009
	Pek. PJ1 A	20	1,00	8.071.885	Bh	8.071.885											17.685.501
	Pek. PJ1 B	20	1,00	8.071.885	Bh	8.071.885											17.685.501
	Pek. PJ1 C	20	1,00	8.100.420	Bh	8.100.420											17.748.019
	Pek. PJ1 D	20	1,00	8.071.885	Bh	8.071.885											17.685.501
	Pek. PJ2 A	20	2,00	11.391.073	Bh	22.782.146											49.915.681
	Pek. PJ2 B	20	1,00	11.391.073	Bh	11.391.073											24.957.841
	Pek. PJ3	20	2,00	8.305.694	Bh	16.611.387											36.395.550
	Pek. Jendela Type J1	20	1,00	7.792.609	Bh	7.792.609											17.073.607
	Pek. Jendela Type J2	20	6,00	3.372.442	Bh	20.234.651											44.334.120
	Pek. Jendela Type J3	20	1,00	7.925.232	Bh	7.925.232											17.364.184
	Pek. Jendela Type J4	20	2,00	7.008.106	Bh	14.016.212											30.709.520
	Pek. Jendela Type J5	20	2,00	4.860.195	Bh	9.720.391											21.297.376
	Pek. Jendela Type J6	20	2,00	5.439.907	Bh	10.879.814											23.837.672
	Pek. Jendela Type J7	20	6,00	10.177.208	Bh	61.063.248											133.789.576
	Pek. Boven Type BV1	20	3,00	3.372.442	Bh	10.117.326											22.167.060
	Pek. Boven Type BV2	20	5,00	3.756.000	Bh	18.780.001											41.146.983
																	-
																	-
<b>7</b>	<b>PEKERJAAN SANITAIR</b>					-											
	Pemasangan Closet Duduk (TOTO Type CW-660J /SW-660I)	15	77,00	1.200.000	unit	92.400.000					166.412.400						
	Pemasangan Floor Drain (TOTO Type TX-1A)	3	89,00	300.000	bh	26.700.000		42.746.700			48.086.700			54.094.200			
	Pemasangan Kran (TOTO Type T-23BQ13V7NB)	3	63,00	125.000	bh	7.875.000		12.607.875			14.182.875			15.954.750			
	Pemasangan Jet Shower (Merek TOTO)	8	58,00	300.000	bh	17.400.000						32.590.200					
	Pemasangan Urinoir (TOTO Type U-57M)	15	82,00	1.000.000	unit	82.000.000					147.682.000						
	Pemasangan Wastafel (TOTO Type L-521V1A)	8	45,00	900.000	unit	40.500.000						75.856.500					
	Pemasangan Cermin 1x1,2 m	8	36,00	355.629	unit	12.802.644						23.979.352					
	Pemasangan Bak Air Fiber Vol. 0.3 m3	10	64,00	2.056.890	unit	131.640.960											288.425.343

No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	2,279	2,37	2,465	2,563	2,666	2,772	2,883	2,999	3,119	3,243	
							21	22	23	24	25	26	27	28	29	30	
<b>6</b>	<b>PEKERJAAN PINTU JENDELA</b>					-											
	Rolling Door Besi	10	120,00	833.417	m2	100.010.040											324.332.560
	Pintu Plat Baja Tebal 2 mm	10	28,40	1.500.000	m2	42.600.000											138.151.800
	Handle Pintu	10	2,00	100.000	Bh	200.000											648.600
	Pintu Alluminium Strip Lebar 8 cm	20	10,08	1.500.000	m2	15.120.000											
	Kusen Pintu Alluminium	20	30,00	500.000	m	15.000.000											
	Engsel Pintu	20	38,00	80.000	bh	3.040.000											
	Kunci Tanam Biasa	5	16,00	225.000	bh	3.600.000					9.597.600						11.674.800
	Daun Pintu UPVC	20	21,00	277.735	m	5.832.435											
	Kusen Pintu Pintu UPVC	20	48,20	277.735	m	13.386.827											
	Kusen Alluminium	20	36,00	168.987	m	6.083.532											
	Kaca Tebal 5 mm	10	3,15	194.979	m2	614.184											1.991.798
	Pek. Pintu Type P1	20	1,00	17.271.537	Bh	17.271.537											
	Pek. Pintu Type P2	20	6,00	5.108.851	Bh	30.653.107											
	Pek. Pintu Type P3	20	24,00	3.289.966	Bh	78.959.187											
	Pek. Pintu Type P4	20	2,00	2.810.013	Bh	5.620.025											
	Pek. Pintu Type P6	20	1,00	5.741.256	Bh	5.741.256											
	Pek. Pintu Km/Wc Teakwood Lapis Aluminium P5	20	10,00	2.974.670	Bh	29.746.695											
	Pek. PJ1 A	20	1,00	8.071.885	Bh	8.071.885											
	Pek. PJ1 B	20	1,00	8.071.885	Bh	8.071.885											
	Pek. PJ1 C	20	1,00	8.100.420	Bh	8.100.420											
	Pek. PJ1 D	20	1,00	8.071.885	Bh	8.071.885											
	Pek. PJ2 A	20	2,00	11.391.073	Bh	22.782.146											
	Pek. PJ2 B	20	1,00	11.391.073	Bh	11.391.073											
	Pek. PJ3	20	2,00	8.305.694	Bh	16.611.387											
	Pek. Jendela Type J1	20	1,00	7.792.609	Bh	7.792.609											
	Pek. Jendela Type J2	20	6,00	3.372.442	Bh	20.234.651											
	Pek. Jendela Type J3	20	1,00	7.925.232	Bh	7.925.232											
	Pek. Jendela Type J4	20	2,00	7.008.106	Bh	14.016.212											
	Pek. Jendela Type J5	20	2,00	4.860.195	Bh	9.720.391											
	Pek. Jendela Type J6	20	2,00	5.439.907	Bh	10.879.814											
	Pek. Jendela Type J7	20	6,00	10.177.208	Bh	61.063.248											
	Pek. Boven Type BV1	20	3,00	3.372.442	Bh	10.117.326											
	Pek. Boven Type BV2	20	5,00	3.756.000	Bh	18.780.001											
<b>7</b>	<b>PEKERJAAN SANITAIR</b>					-											
	Pemasangan Closet Duduk (TOTO Type CW-660J /SW-660J)	15	77,00	1.200.000	unit	92.400.000											
	Pemasangan Floor Drain (TOTO Type TX-1A)	3	89,00	300.000	bh	26.700.000	60.849.300			68.432.100			76.976.100				86.588.100
	Pemasangan Kran (TOTO Type T-23BQ13V7NB)	3	63,00	125.000	bh	7.875.000	17.947.125			20.183.625			22.703.625				25.538.625
	Pemasangan Jet Shower (Merek TOTO)	8	58,00	300.000	bh	17.400.000			44.596.200								
	Pemasangan Urinoir (TOTO Type U-57M)	15	82,00	1.000.000	unit	82.000.000											265.926.000
	Pemasangan Wastafel (TOTO Type L-521V1A)	8	45,00	900.000	unit	40.500.000				103.801.500							
	Pemasangan Cermin 1x1,2 m	8	36,00	355.629	unit	12.802.644				32.813.177							
	Pemasangan Bak Air Fiber Vol. 0.3 m3	10	64,00	2.056.890	unit	131.640.960											426.911.633

No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	1,04	1,082	1,125	1,17	1,217	1,265	1,316	1,369	1,423	1,480	1,539	1,601	1,665	1,732	1,801	
							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
<b>8</b>	<b>PEKERJAAN FIRE HYDRANT</b>																					
	Diesel Fire Pump (DFP) c/w panel kontrol	30	1,00	322.888.375	Unit	322.888.375																
	Pipa BS SCH 40 (ASTM A53)																					
	Dia. 2,5"	30	28,00	472.880	M'	13.240.640																
	Dia. 4"	30	292,00	606.050	M'	176.966.600																
	Gate Valve Dia 4" 16 K	30	3,00	6.575.988	Bh	19.727.963																
	Hydrant Box type B c/w accessories	30	6,00	7.388.750	set	44.332.500																
<b>9</b>	<b>PEKERJAAN PAGAR TRIBUN PENONTON</b>																					
	Pek. Pagar Tribun Penonton	10	885,75	380.000	m2	336.585.000										498.145.800						
<b>10</b>	<b>PEKERJAAN LINTASAN LARI</b>																					
	Butiran EPDM (Ethylene Propylene Diene Monomer)	20	139,44	7.000.000	m2	976.080.000																
	Lem	20	3.486,00	45.000	m2	156.870.000																
	Garis	10	283,50	400.000	m2	113.400.000										167.832.000						
<b>11</b>	<b>PEKERJAAN AREA LAPANGAN STADION</b>																					
	Pek. Rumpuk Zoyzia Matrella Linn Merr	25	6.363,84	161.000	M2	1.024.578.240																
<b>12</b>	<b>PEKERJAAN DRAINASE U - DITCH</b>																					
	<b>AREA PELATARAN</b>																					
	Pek. U Ditch 40x40x100 cm	25	127,00	1.255.455	Unit	159.442.785																
	Pek. Cover U Ditch 40x50x5 cm	25	254,00	406.353	Unit	103.213.535																
	<b>AREA LAPANGAN</b>																					
	Pek. U Gutter 40x40	25	392,20	110.000	m'	43.142.000																
	Pek. U Gutter 80x100	25	130,40	120.000	m'	15.648.000																
<b>13</b>	<b>PEKERJAAN MEKANIKAL</b>																					
	<b>PEKERJAAN INSTALASI AIR BERSIH</b>																					
	Pompa Booster Packaged (EBARA 50X40 FSH)	20	5,00	37.500.000	set	187.500.000																
	Kabel Power Booster (NYY 3X4 mm2)	15	66,00	55.367	m'	3.654.206																6.581.224
	Kabel Kontrol Pompa ke Ground Tank (NYY 2x1,5 mm2)	15	20,00	17.287	m'	345.748																622.691

No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	1,873	1,948	2,026	2,107	2,191	2,279	2,37	2,465	2,563	2,666	2,772	2,883	2,999	3,119	3,243
							16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
<b>8</b>	<b>PEKERJAAN FIRE HYDRANT</b>																				
	Diesel Fire Pump (DFP) c/w panel kontrol	30	1,00	322.888.375	Unit	322.888.375															1.047.127.000
	Pipa BS SCH 40 (ASTM A53)																				
	Dia. 2,5"	30	28,00	472.880	M'	13.240.640															42.939.396
	Dia. 4"	30	292,00	606.050	M'	176.966.600															573.902.684
	Gate Valve Dia 4" 16 K	30	3,00	6.575.988	Bh	19.727.963															63.977.782
	Hydrant Box type B c/w accessories	30	6,00	7.388.750	set	44.332.500															143.770.298
<b>9</b>	<b>PEKERJAAN PAGAR TRIBUN PENONTON</b>																				
	Pek. Pagar Tribun Penonton	10	885,75	380.000	m2	336.585.000				737.457.735											1.091.545.155
<b>10</b>	<b>PEKERJAAN LINTASAN LARI</b>																				
	Butiran EPDM (Ethylene Propylene Diene Monomer)	20	139,44	7.000.000	m2	976.080.000				2.138.591.280											
	Lem	20	3.486,00	45.000	m2	156.870.000				343.702.170											
	Garis	10	283,50	400.000	m2	113.400.000				248.459.400											367.756.200
<b>11</b>	<b>PEKERJAAN AREA LAPANGAN STADION</b>																				
	Pek. Rumpuk Zoyzia Matrella Linn Merr	25	6.363,84	161.000	M2	1.024.578.240										2.731.525.588					
<b>12</b>	<b>PEKERJAAN DRAINASE U - DITCH</b>																				
	<b>AREA PELATARAN</b>																				
	Pek. U Ditch 40x40x100 cm	25	127,00	1.255.455	Unit	159.442.785										425.074.465					
	Pek. Cover U Ditch 40x50x5 cm	25	254,00	406.353	Unit	103.213.535										275.167.284					
	<b>AREA LAPANGAN</b>																				
	Pek. U Gutter 40x40	25	392,20	110.000	m'	43.142.000										115.016.572					
	Pek. U Gutter 80x100	25	130,40	120.000	m'	15.648.000										41.717.568					
<b>13</b>	<b>PEKERJAAN MEKANIKAL</b>																				
	<b>PEKERJAAN INSTALASI AIR BERSIH</b>																				
	Pompa Booster Packaged (EBARA 50X40 FSH)	20	5,00	37.500.000	set	187.500.000				410.812.500											
	Kabel Power Booster (NYY 3X4 mm2)	15	66,00	55.367	m'	3.654.206															11.850.588
	Kabel Kontrol Pompa ke Ground Tank (NYY 2x1,5 mm2)	15	20,00	17.287	m'	345.748															1.121.259

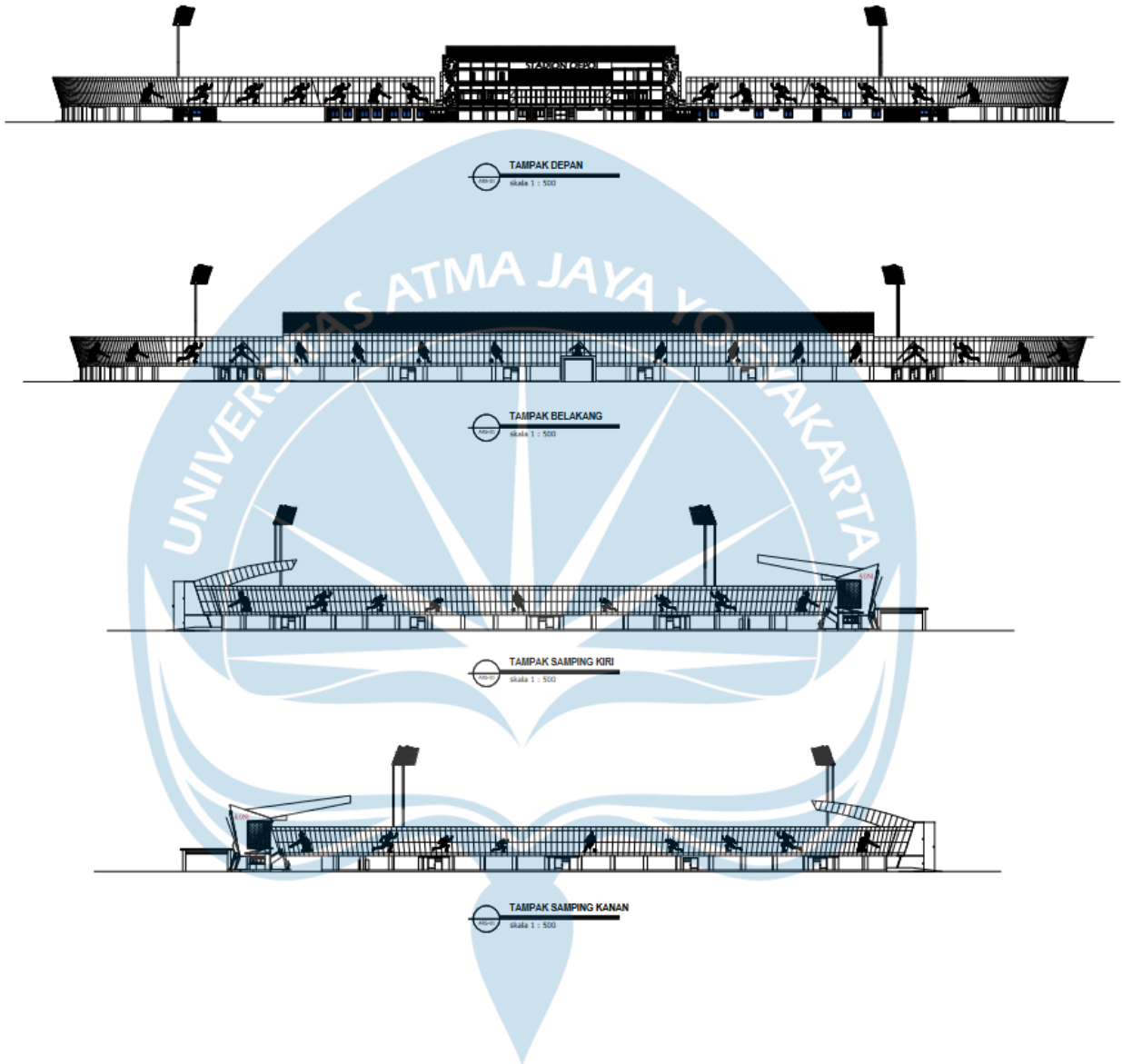
No	Item Pekerjaan	Umur Ekonomis	Volume	Harga	Satuan	Harga Total	1,04	1,082	1,125	1,17	1,217	1,265	1,316	1,369	1,423	1,480	1,539	1,601	1,665	1,732	1,801		
							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
<b>14</b>	<b>PEKERJAAN ELEKTRIKAL</b>					-																	
	<b>INSTALASI LISTRIK</b>																						
	RMI 2x18 watt (Philips)	5	59,00	400.000	bh	23.600.000					28.721.200					34.928.000						42.503.600	
	Downlight LED Inbow 18 watt (Philips)	5	35,00	237.918	bh	8.327.121																	
	Downlight LED Inbow 14 watt (Philips)	5	50,00	223.140	bh	11.157.013																	
	Downlight LED Inbow 13 watt (Philips)	5	26,00	250.000	bh	6.500.000					7.910.500					9.620.000						11.706.500	
	Downlight LED Inbow 5 watt (Philips)	5	24,00	200.000	bh	4.800.000					5.841.600					7.104.000						8.644.800	
	Lampu Sorot 100 watt	5	134,00	250.000	bh	33.500.000					40.769.500					49.580.000						60.333.500	
	Saklar Tunggal (Clipsal)	15	76,00	1.200.000	bh	91.200.000																	164.251.200
	Saklar Seri (Clipsal)	15	32,00	150.000	bh	4.800.000																	8.644.800
	Saklar triple (Clipsal)	15	9,00	110.831		997.481																	
	Lampu FLPB LED 1000 watt	5	60,00	200.000	bh	12.000.000					14.604.000					17.760.000						21.612.000	
	Stop Kontak (Double Outlet) Panasonic	15	105,00	150.000	bh	15.750.000																	28.365.750
	Papan Score	10	1,00	20.000.000	bh	20.000.000										29.600.000							
	Downlight LED Inbow 18 watt	5	100,00	200.000	bh	20.000.000					24.340.000					29.600.000						36.020.000	
	TL Balk 1x36 W c/w Lampu (Philips)	5	2,00	208.363	bh	416.726					507.155					616.754						750.523	
	Exit lamp 1 MK + Battery (Ardolite)	5	4,00	858.573	bh	3.434.291					4.179.532					5.082.751						6.185.158	
	Lampu Baret 32 Watt (Ardolite Mentos 32 ACR + Ring)	5	12,00	466.969	bh	5.603.628					6.819.615					8.293.369						10.092.134	
	<b>PEKERJAAN FENDEER CABLE</b>																						
	Kabel Outdoor NYY 4x1,5 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	1.980,00	110.000	m	217.800.000																	392.257.800
	Kabel Outdoor NYY 4Cx10 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	224,00	200.000	m'	44.800.000																	80.684.800
	Kabel Outdoor NYY 4Cx25 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	875,00	200.000	m'	175.000.000																	315.175.000
	Kabel Outdoor NYY 4Cx35 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	40,00	287.954	m'	11.518.170																	20.744.224
	Kabel Outdoor NYY 4Cx185 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	253,29	1.487.974	m'	376.881.759																	678.764.047
	kabel Panel Genset ke LVMDP (NYY 4x70 mm2 + BC 25 mm2)	15	100,00	762.680	M'	76.267.963																	137.358.600
	kabel LVMDP ke P-AB (NYY 4x6 mm2 + BC 4 mm2)	15	50,00	132.998	M'	6.649.875																	11.976.425
	kabel SDP ke P-P1 (NYY 4x16 mm2 + BC 10 mm2)	15	15,00	322.150	M'	4.832.243																	8.702.869
	kabel SDP ke P-P2 (NYY 4x16 mm2 + BC 10 mm2)	15	15,00	322.150	M'	4.832.243																	8.702.869
	kabel SDP ke P-P3 (NYY 4x16 mm2 + BC 10 mm2)	15	20,00	322.150	M'	6.442.990																	11.603.825
	kabel Ladder Elektrik 400 x 50 mm	15	20,00	366.482	M'	7.329.640																	13.200.682
	Kabel Tray Elektronik 150 x 50 mm	15	72,00	348.105	M'	25.063.560																	45.139.472
	(Material Mild Steel 1,5 mm Finishing Galvanized Electro Plating)	15	-	-		-																	
	Instalasi Penerangan	15	210,00	329.728	Ttk	69.242.880																	124.706.427
	(Dengan Kabel NYM 2x2,5 mm2 (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	-	-		-																	
	Instalasi Exhaust Fan	15	13,00	102.149	Ttk	1.327.934																	2.391.609
	(Dengan Kabel NYM 2x2,5 mm2 sekualitas Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	-	-		-																	
	Instalasi Stop Kontak 1 Phasa	15	71,00	382.927	Ttk	27.187.817																	48.965.258
	(Dengan Kabel NYM 3x2,5 mm2 sekualitas Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	-	-		-																	
	Kabel penghantar NYY 1x70 mm2 (penangkal petir)	15	160,00	195.063	M'	31.210.080																	56.209.354
	Instalasi NYM 3x2 5 mm in conduit 20 mm2	15	24,00	300.000	Ttk	7.200.000																	12.967.200
	Instalasi Coaxial RG 6 in conduit 20 mm2	15	24,00	300.000	Ttk	7.200.000																	12.967.200
	Penangkal petir Radius 85 Meter (KURN)	20	2,00	27.159.760	Unit	54.319.520																	
	<b>PEKERJAAN CCTV STADION</b>																						
	DIVAR 8 CH	15	4,00	12.000.000	Unit	48.000.000					58.416.000												86.448.000
	Monitor LED 42"	10	4,00	21.000.000	Unit	84.000.000										124.320.000							
	IR Fixed Dome Camera	10	24,00	1.200.000	Buah	28.800.000										42.624.000							
	<b>Total</b>						-	-	38.896.875	-	196.490.302	43.737.375	-	1.926.318.225	49.200.225	1.553.345.576	-	55.354.575	-	-	-	-	6.489.642.197

No	Item Pekerjaan	Umur	Volume	Harga	Satuan	Harga Total	1,873	1,948	2,026	2,107	2,191	2,279	2,37	2,465	2,563	2,666	2,772	2,883	2,999	3,119	3,243	
							16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
14	<b>PEKERJAAN ELEKTRIKAL</b>																					
	<b>INSTALASI LISTRIK</b>																					
	RMI 2x18 watt (Philips)	5	59,00	400.000	bh	23.600.000					51.707.600					62.917.600					76.534.800	
	Downlight LED Inbow 18 watt (Philips)	5	35,00	237.918	bh	8.327.121																
	Downlight LED Inbow 14 watt (Philips)	5	50,00	223.140	bh	11.157.013																
	Downlight LED Inbow 13 watt (Philips)	5	26,00	250.000	bh	6.500.000				14.241.500						17.329.000					21.079.500	
	Downlight LED Inbow 5 watt (Philips)	5	24,00	200.000	bh	4.800.000				10.516.800						12.796.800					15.566.400	
	Lampu Sorot 100 watt	5	134,00	250.000	bh	33.500.000				73.398.500						89.311.000					108.640.500	
	Saklar Tunggal (Clipsal)	15	76,00	1.200.000	bh	91.200.000																295.761.600
	Saklar Seri (Clipsal)	15	32,00	150.000	bh	4.800.000																15.566.400
	Saklar triple (Clipsal)	15	9,00	110.831		997.481																
	Lampu FLPB LED 1000 watt	5	60,00	200.000	bh	12.000.000				26.292.000						31.992.000					38.916.000	
	Stop Kontak (Double Outlet) Panasonic	15	105,00	150.000	bh	15.750.000																51.077.250
	Papan Score	10	1,00	20.000.000	bh	20.000.000				43.820.000												64.860.000
	Downlight LED Inbow 18 watt	5	100,00	200.000	bh	20.000.000				43.820.000						53.320.000					64.860.000	
	TL Balk 1x36 W c/w lampu (Philips)	5	2,00	208.363	bh	416.726				913.046						1.110.990					1.351.441	
	Exit Lamp 1 MK + Battery (Artolite)	5	4,00	858.573	bh	3.434.291				7.524.532						9.155.820					11.137.406	
	Lampu Baret 32 Watt (Artolite Mentos 32 ACR + Ring)	5	12,00	466.969	bh	5.603.628				12.277.549						14.939.272					18.172.566	
	<b>PEKERJAAN FENDEER CABLE</b>																					
	Kabel Outdoor NYY 4x1,5 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	1.980,00	110.000	m	217.800.000																706.325.400
	Kabel Outdoor NYY 4Cx10 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	224,00	200.000	m'	44.800.000																145.286.400
	Kabel Outdoor NYY 4Cx25 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	875,00	200.000	m'	175.000.000																567.525.000
	Kabel Outdoor NYY 4Cx35 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	40,00	287.954	m'	11.518.170																37.353.425
	Kabel Outdoor NYY 4Cx185 mm (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	253,29	1.487.974	m'	376.881.759																1.222.227.543
	kabel Panel Genset ke LVMDP (NYY 4x70 mm2 + BC 25 mm2)	15	100,00	762.680	M'	76.267.963																247.337.002
	kabel LVMDP ke P-AB (NYY 4x6 mm2 + BC 4 mm2)	15	50,00	132.998	M'	6.649.875																21.565.545
	kabel SDP ke P-P1 (NYY 4x16 mm2 + BC 10 mm2)	15	15,00	322.150	M'	4.832.243																15.670.962
	kabel SDP ke P-P2 (NYY 4x16 mm2 + BC 10 mm2)	15	15,00	322.150	M'	4.832.243																15.670.962
	kabel SDP ke P-P3 (NYY 4x16 mm2 + BC 10 mm2)	15	20,00	322.150	M'	6.442.990																20.894.617
	kabel Ladder Elektrik 400 x 50 mm	15	20,00	366.482	M'	7.329.640																23.770.023
	Kabel Tray Elektronik 150 x 50 mm	15	72,00	348.105	M'	25.063.560																81.281.125
	(Material Mild Steel 1,5 mm Finishing Galvanized Electro Plating)	15	-	-		-																-
	Instalasi Penerangan	15	210,00	329.728	Ttk	69.242.880																224.554.660
	(Dengan Kabel NYM 2x2,5 mm2 (Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	-	-		-																-
	Instalasi Exhaust Fan	15	13,00	102.149	Ttk	1.327.934																4.306.489
	(Dengan Kabel NYM 2x2,5 mm2 sekualitas Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	-	-		-																-
	Instalasi Stop Kontak 1 Phasa	15	71,00	382.927	Ttk	27.187.817																88.170.091
	(Dengan Kabel NYM 3x2,5 mm2 sekualitas Supreme/Kabel Metal + Pipa Conduit ex Clipsal)	15	-	-		-																-
	Kabel penghantar NYY 1x70 mm2 (penangkal petir)	15	160,00	195.063	M'	31.210.080																101.214.289
	Instalasi NYM 3x2 5 mm in conduit 20 mm2	15	24,00	300.000	Ttk	7.200.000																23.349.600
	Instalasi Coaxial RG 6 in conduit 20 mm2	15	24,00	300.000	Ttk	7.200.000																23.349.600
	Penangkal petir Radius 85 Meter (KURN)	20	2,00	27.159.760	Unit	54.319.520				35.004.138												-
	<b>PEKERJAAN CCTV STADION</b>																					
	DIVAR 8 CH	15	4,00	12.000.000	Unit	48.000.000																155.664.000
	Monitor LED 42"	10	4,00	21.000.000	Unit	84.000.000				184.044.000												272.412.000
	IR Fixed Dome Camera	10	24,00	1.200.000	Buah	28.800.000				63.100.800												93.398.400
	<b>Total</b>						<b>2.635.496.008</b>	<b>-</b>	<b>70.048.950</b>	<b>-</b>	<b>13.500.497.172</b>	<b>78.796.425</b>	<b>-</b>	<b>-</b>	<b>3.695.009.888</b>	<b>3.901.730.597</b>	<b>-</b>	<b>99.679.725</b>	<b>-</b>	<b>-</b>	<b>12.002.494.487</b>	

## Lampiran 2. Interest Tables

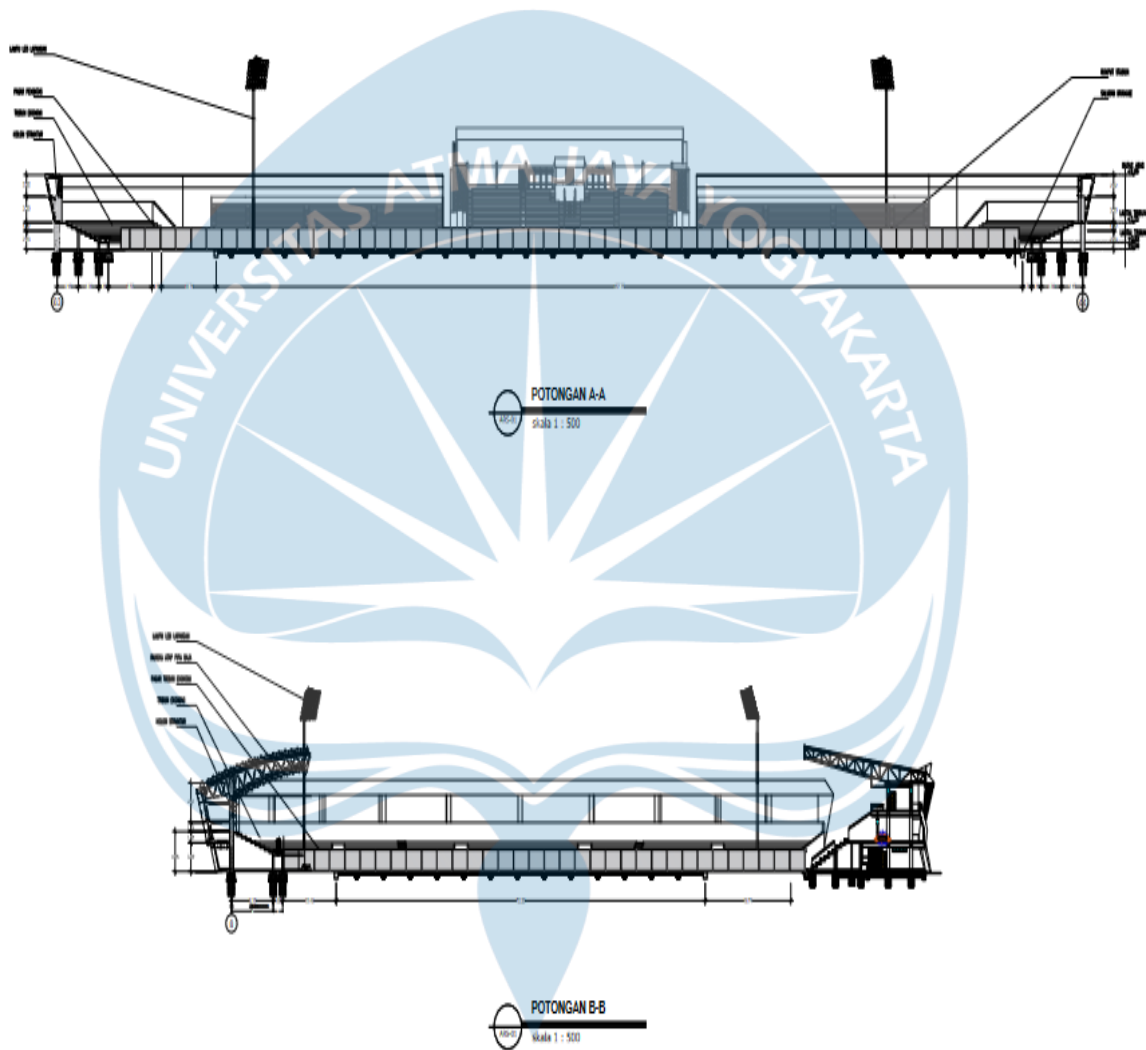
4% Compound Interest Factors 4%									
n	Single Payment		Uniform Payment Series				Arithmetic Gradient		n
	Compound Amount Factor	Present Worth Factor	Sinking Fund Factor	Capital Recovery Factor	Compound Amount Factor	Present Worth Factor	Gradient Uniform Series	Gradient Present Worth	
	Find F Given P F/P	Find P Given F P/F	Find A Given F A/F	Find A Given P A/P	Find F Given A F/A	Find P Given A P/A	Find A Given G A/G	Find P Given G P/G	
1	1.040	.9615	1.0000	1.0400	1.000	0.962	0	0	1
2	1.082	.9246	.4902	.5302	2.040	1.886	0.490	0.925	2
3	1.125	.8890	.3203	.3603	3.122	2.775	0.974	2.702	3
4	1.170	.8548	.2355	.2755	4.246	3.630	1.451	5.267	4
5	1.217	.8219	.1846	.2246	5.416	4.452	1.922	8.555	5
6	1.265	.7903	.1508	.1908	6.633	5.242	2.386	12.506	6
7	1.316	.7599	.1266	.1666	7.898	6.002	2.843	17.066	7
8	1.369	.7307	.1085	.1485	9.214	6.733	3.294	22.180	8
9	1.423	.7026	.0945	.1345	10.583	7.435	3.739	27.801	9
10	1.480	.6756	.0833	.1233	12.006	8.111	4.177	33.881	10
11	1.539	.6496	.0741	.1141	13.486	8.760	4.609	40.377	11
12	1.601	.6246	.0666	.1066	15.026	9.385	5.034	47.248	12
13	1.665	.6006	.0601	.1001	16.627	9.986	5.453	54.454	13
14	1.732	.5775	.0547	.0947	18.292	10.563	5.866	61.962	14
15	1.801	.5553	.0499	.0899	20.024	11.118	6.272	69.735	15
16	1.873	.5339	.0458	.0858	21.825	11.652	6.672	77.744	16
17	1.948	.5134	.0422	.0822	23.697	12.166	7.066	85.958	17
18	2.026	.4936	.0390	.0790	25.645	12.659	7.453	94.350	18
19	2.107	.4746	.0361	.0761	27.671	13.134	7.834	102.893	19
20	2.191	.4564	.0336	.0736	29.778	13.590	8.209	111.564	20
21	2.279	.4388	.0313	.0713	31.969	14.029	8.578	120.341	21
22	2.370	.4220	.0292	.0692	34.248	14.451	8.941	129.202	22
23	2.465	.4057	.0273	.0673	36.618	14.857	9.297	138.128	23
24	2.563	.3901	.0256	.0656	39.083	15.247	9.648	147.101	24
25	2.666	.3751	.0240	.0640	41.646	15.622	9.993	156.104	25
26	2.772	.3607	.0226	.0626	44.312	15.983	10.331	165.121	26
27	2.883	.3468	.0212	.0612	47.084	16.330	10.664	174.138	27
28	2.999	.3335	.0200	.0600	49.968	16.663	10.991	183.142	28
29	3.119	.3207	.0189	.0589	52.966	16.984	11.312	192.120	29
30	3.243	.3083	.0178	.0578	56.085	17.292	11.627	201.062	30
31	3.373	.2965	.0169	.0569	59.328	17.588	11.937	209.955	31
32	3.508	.2851	.0159	.0559	62.701	17.874	12.241	218.792	32
33	3.648	.2741	.0151	.0551	66.209	18.148	12.540	227.563	33
34	3.794	.2636	.0143	.0543	69.858	18.411	12.832	236.260	34
35	3.946	.2534	.0136	.0536	73.652	18.665	13.120	244.876	35
40	4.801	.2083	.0105	.0505	95.025	19.793	14.476	286.530	40
45	5.841	.1712	.00826	.0483	121.029	20.720	15.705	325.402	45
50	7.107	.1407	.00655	.0466	152.667	21.482	16.812	361.163	50
55	8.646	.1157	.00523	.0452	191.159	22.109	17.807	393.689	55
60	10.520	.0951	.00420	.0442	237.990	22.623	18.697	422.996	60
65	12.799	.0781	.00339	.0434	294.968	23.047	19.491	449.201	65
70	15.572	.0642	.00275	.0427	364.290	23.395	20.196	472.479	70
75	18.945	.0528	.00223	.0422	448.630	23.680	20.821	493.041	75
80	23.050	.0434	.00181	.0418	551.244	23.915	21.372	511.116	80
85	28.044	.0357	.00148	.0415	676.089	24.109	21.857	526.938	85
90	34.119	.0293	.00121	.0412	827.981	24.267	22.283	540.737	90
95	41.511	.0241	.00099	.0410	1 012.8	24.398	22.655	552.730	95
100	50.505	.0198	.00081	.0408	1 237.6	24.505	22.980	563.125	100

### Lampiran 3. Tampak Stadion Oepoi

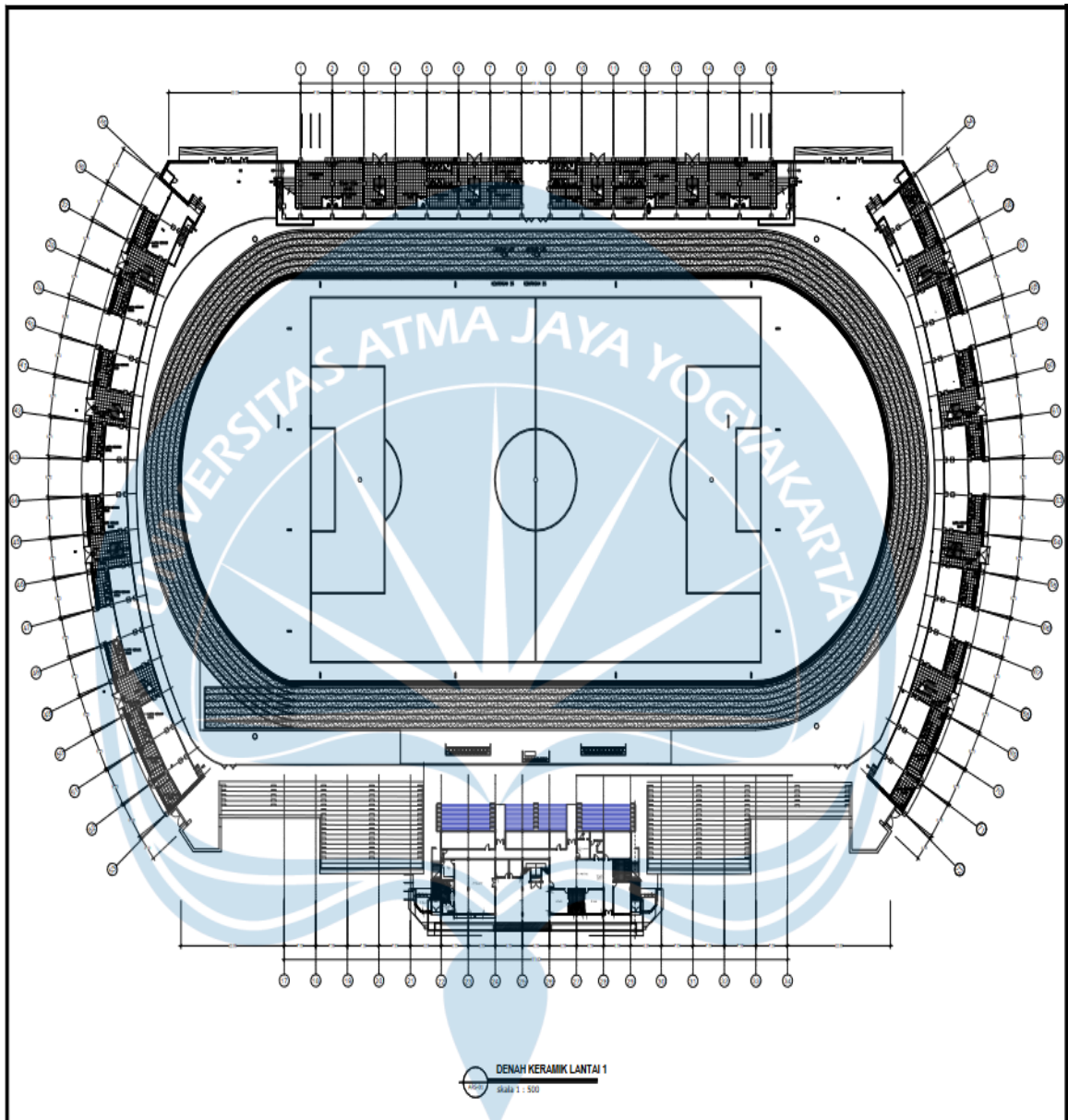




#### Lampiran 4. Gambar Potongan Stadion Oepoi



Lampiran 5. Gambar Pemasangan Keramik Stadion Oepoi



## Lampiran 6. Tampak Prespektif View Stadion Oepoi



PERSPEKTIF VIEW SIANG HARI  
skala 1:175



PERSPEKTIF VIEW INTERIOR TRIBUNE  
skala 1:75



PERSPEKTIF VIEW TRIBUN EKONOMI  
skala 1:75

**Lampiran 7. Gambar Stadion Oepoi**

