

Lampiran 1
Time Schedule Proyek

Lampiran 2
Rancangan Anggaran Biaya (RAB)

GEDUNG A		B O Q			
		(BILL OF QUANTITY)			
DESCRIPTION OF WORKS		UNIT	VOLUME	UNIT PRICE (Rp.)	AMOUNT (Rp.)
I	Preparatory & Hse Works	m2	15696	256000	4.018.124.800
II	Dewatering System Work	m3	12350	125850	1.554.247.500
III	STRUCTURE WORK				
	Bored Pile				
	Bore Pile Foundation	m2	15586	325500	5.073.243.000
	Bored Pile Loading Test	m2	15450	487530	7.532.338.500
	Excavation of basement soil	m2	15316	355759	5.448.804.844
	Basement floor	m2	14300	555120	7.938.216.000
	1st floor	m2	998	3425560	3.418.708.880
	2nd floor	m2	995	3152549	3.136.786.255
	3th floor	m2	994	3055250	3.036.918.500
	4th floor	m2	994	3105200	3.086.568.800
	5th floor	m2	996	2958010	2.946.177.960
	6th floor	m2	993	3232500	3.209.872.500
	7th floor	m2	994	2947100	2.929.417.400
	8th floor	m2	993	3469200	3.444.915.600
	9th floor	m2	995	3157921	3.142.131.395
	10th floor	m2	997	2947980	2.939.136.060
	11th floor	m2	994	3152910	3.133.992.540
	Roof floor	m2	891	2620900	2.335.221.900
	Work Roof Truss and Cover	m2	875	998500	873.687.500
	Dampers and Supervision Works				
	Lab. Test for damper in japan (7-specimens)	lot	1150	755800	869.170.000
	Preparation Works (Material, equipment % personil)	lot	1110	782300	868.353.000
	Damper Installation	lot	1200	698521	838.225.200
				AMOUNT	66.201.885.834
IV	ARCHITECTURAL WORK				
	Basement floor	m2	14300	439583	6.286.036.900
	1st floor	m2	850	4255800	3.617.430.000
	2nd floor	m2	847	4235250	3.587.256.750
	3th floor	m2	840	4225600	3.549.504.000
	4th floor	m2	833	4195920	3.495.201.360
	5th floor	m2	828	4155700	3.440.919.600
	6th floor	m2	822	3555650	2.922.744.300
	7th floor	m2	818	3625500	2.965.659.000
	8th floor	m2	813	3458300	2.811.597.900
	9th floor	m2	795	3715200	2.953.584.000
	10th floor	m2	782	3679450	2.877.329.900
	11th floor	m2	778	3360400	2.614.391.200
	Roof floor	m2	690	1250400	862.776.000
	Fasade Work	m2	964	2488758	2.399.162.712
	Other Work (Signage, memorial paque, room name. etc)	lot	689	4258900	2.934.382.100
	Canopy and Pergola Work 2nd floor	lot	650	4623750	3.005.437.500
	Pergola Work Roof floor	m2	602	3559800	2.142.999.600
	Canopy Main Stair Work	lot	653	2498521	1.631.534.213
				AMOUNT	54.097.947.035
V	SITE CONSTRUCTION WORKS				
	Genset homework	m3	3425	377832	1.294.074.600
	Ground Water Tank Work	m3	2300	573110	1.318.153.000
	Sewage Treatment Plant Work	m3	458	472982	216.625.756
	Flagpole work	m3	398	855832	340.621.136
	Stone Masonry work	m3	389	753298	293.032.922
	Landscape				
	Hardscape Work	m2	8500	934392	7.942.332.000
	Softscape Work	m2	7954	867300	6.898.504.200
				AMOUNT	18.303.343.614

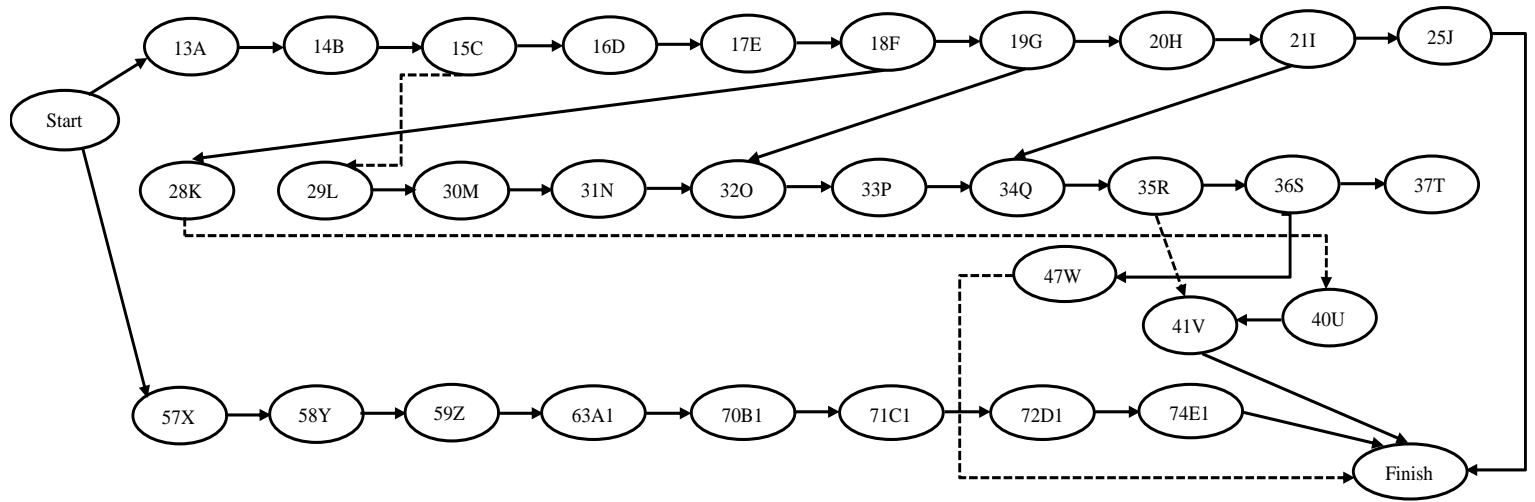
VI ELECTRICAL WORK				
Power Supply & Distribution System	m2	632	6245500	3,947,156.000
Distribution Panel	m2	835	413520	345,289.200
Cable Tray and Cable Ladder Works	m2	858	313074	268,617.492
Lighting System	m2	1300	643300	836,290.000
Receptacles / Socket Outlet System	m2	438	455412	199,470.456
Air Conditioning and Fan Power Supply System	m2	398	384790	153,146.420
Power Monitoring System	m2	428	865590	370,472.520
Data Communication System	m2	414	362400	150,033.600
security and Surveillance System (CCTV)	m2	1120	462830	518,369.600
Mass Notification System	m2	215	445400	95,761.000
Fire Alarm System	m2	280	435800	122,024.000
Finger Print System	m2	225	556800	125,280.000
Photovoltaic / Solar Panel System	m2	2138	758600	1,621,886.800
Lighting Protection System	lot	580	856500	496,770.000
			AMOUNT	9,250,567,088
VII MECHANICAL WORK				
Clean water Works	m2	672	427850	287,515.200
Portable Water System	m2	680	669500	455,260.000
Recycle Water System	m2	432	455950	196,970.400
Rain Water System	m2	314	740850	232,626.900
Waste Water System	m2	457	535650	244,792.050
Fire Fighting	m2	632	625800	395,505.600
Ventilation and Air Conditioning	m2	520	485500	252,460.000
Elevator System	m2	458	374740	171,630.920
			AMOUNT	2,236,761,070
VIII BUILDING MONITORING SYSTEM WORK				
BMS For Electrical Works	m2	4311	445800	1,921,843.800
BMS For Mechanical Works	m2	3865	623900	2,411,373.500
				4,333,217,300
			IVIII	159,996,094,241
			Di Bulatkan	160,000,000,000

Lampiran 3
Hubungan Keterkaitan Pekerjaan Proyek SGLC

No	Item Pekerjaan	Duration	Start	Finish	Predecessors	Predecessors	Successors
1	PREPARATORY & HSE WORKS	503 days	Mon 30/11/20	Sun 22/05/22	Normal		2SS
2	Dewatering System Work	49 days	Mon 11/01/21	Sun 28/02/21	1	1SS	5SS+7 days
3	STRUCTURE WORK	272 days	Mon 14/12/20	Sun 26/09/21			
4	Bored Pile	238 days	Mon 18/01/21	Sun 26/09/21			
5	Bore Pile Foundation	56 days	Mon 18/01/21	Sun 14/03/21	2	2SS+7 days	6FS-35 days;24SS-15 days;74FS-7 days
6	Bored Pile Loading Test	14 days	Mon 08/02/21	Sun 21/02/21	5	5FS-35 days	7SS-7 days
7	Excavation of basement soil	63 days	Mon 01/02/21	Sun 04/04/21	6	6SS-7 days	8FS-73 days
8	Basement floor	94 days	Fri 22/01/21	Sun 25/04/21	7	7FS-73 days	9SS-19 days;27FS+35 days
9	1st floor	56 days	Mon 15/03/21	Sun 09/05/21	8	8SS-19 days	10SS+14 days
10	2nd floor	56 days	Mon 29/03/21	Sun 06/06/21	9	9SS+14 days	11SS+13 days
11	3th floor	56 days	Mon 12/04/21	Sun 20/06/21	10	10SS+13 days	17;12SS+7 days
12	4th floor	56 days	Mon 19/04/21	Sun 27/06/21	11	11SS+7 days	57;13SS+13 days
13	5th floor	56 days	Mon 03/05/21	Sun 11/07/21	12	12SS+13 days	14SS+7 days
14	6th floor	56 days	Mon 24/05/21	Sun 18/07/21	13	13SS+7 days	15SS+7 days
15	7th floor	49 days	Mon 31/05/21	Sun 18/07/21	14	14SS+7 days	16SS+13 days;29
16	8th floor	49 days	Mon 14/06/21	Sun 01/08/21	15	15SS+13 days	
17	9th floor	49 days	Mon 21/06/21	Sun 08/08/21	11	11	60;18FS-35 days
18	10th floor	49 days	Mon 05/07/21	Sun 22/08/21	17	17FS-35 days	21;19SS+7 days;28SS
19	11th floor	49 days	Mon 12/07/21	Sun 29/08/21	18	18SS+7 days	32;44;20FS-21 days
20	Roof floor	49 days	Mon 09/08/21	Sun 26/09/21	19	19FS-21 days	
21	Work Roof Truss and Cover	35 days	Mon 23/08/21	Sun 26/09/21	18	18	34
22	Dampers and Supervision Works	251 days	Mon 14/12/20	Sun 05/09/21			
23	Lab. Test for damper in japan (7-specimens)	14 days	Mon 14/12/20	Sun 27/12/20	24	24SF-7 days	
24	Preparation Works (Material, equipment % personil)	126 days	Mon 04/01/21	Sun 09/05/21	5	5SS-15 days	25FS-14 days;23SF-7 days
25	Damper Installation	105 days	Mon 24/05/21	Sun 05/09/21	24	24FS-14 days	
26	ARCHITECTURAL WORK	322 days	Mon 14/06/21	Sun 22/05/22			
27	Basement floor	98 days	Mon 14/06/21	Sun 19/09/21	8	8FS+35 days	43
28	1st floor	126 days	Mon 05/07/21	Sun 07/11/21	18	18SS	40SS+7 days
29	2nd floor	126 days	Mon 19/07/21	Sun 21/11/21	15	15	36;30SS+12 days;42FS-7 days
30	3th floor	126 days	Mon 02/08/21	Sun 05/12/21	29	29SS+12 days	39;31SS+14 days
31	4th floor	126 days	Mon 16/08/21	Sun 19/12/21	30	30SS+14 days	
32	5th floor	98 days	Mon 30/08/21	Sun 05/12/21	19	19	68SS;33SS+35 days
33	6th floor	98 days	Mon 04/10/21	Sun 16/01/22	32	32SS+35 days	
34	7th floor	98 days	Mon 27/09/21	Sun 09/01/22	21	21	35SS+14 days
35	8th floor	98 days	Mon 11/10/21	Sun 23/01/22	34	34SS+14 days	36SS+14 days;41;52FS-21 days;66FS-7 days
36	9th floor	98 days	Mon 25/10/21	Sun 06/02/22	35	35SS+14 days	37SS+14 days;47SS-21 days
37	10th floor	98 days	Mon 08/11/21	Sun 20/02/22	36	36SS+14 days	
38	11th floor	98 days	Mon 22/11/21	Sun 06/03/22	29	29	
39	Roof floor	90 days	Mon 06/12/21	Sat 12/03/22	30	30	53FS+15 days
40	Fasade Work	294 days	Mon 12/07/21	Sun 22/05/22	28	28SS+7 days	49FS-14 days
41	Other Work (Signage, memorial paque, room name, etc)	77 days	Mon 24/01/22	Sun 10/04/22	35	35	50FS-7 days
42	Canopy and Pergola Work 2nd floor	77 days	Mon 06/09/21	Sun 21/11/21	29	29FS-77 days	
43	Pergola Work Roof floor	91 days	Mon 20/09/21	Sun 19/12/21	27	27	46SS
44	Canopy Main Stair Work	21 days	Mon 30/08/21	Sun 19/09/21	19	19	59

No	Item Pekerjaan	Duration	Start	Finish	Predecessors Normal	Predecessors Fast Track	Successors
45	SITE CONSTRUCTION WORKS	224 days	Mon 20/09/21	Sun 22/05/22			
46	Genset homework	105 days	Mon 20/09/21	Sun 09/01/22	43	43SS	56SS
47	Ground Water Tank Work	77 days	Mon 04/10/21	Sun 19/12/21	36	36SS-21 days	48SS
48	Sewage Treatment Plant Work	56 days	Mon 04/10/21	Sun 28/11/21	47	47SS	
49	Flagpole work	14 days	Mon 09/05/22	Sun 22/05/22	40	40FS-14 days	
50	Stone Masonry work	35 days	Mon 04/04/22	Sun 22/05/22	41	41FS-7 days	
51	Landscape	126 days	Mon 03/01/22	Sun 22/05/22			
52	Hardscape Work	126 days	Mon 03/01/22	Sun 22/05/22	35	35FS-21 days	55SS
53	Softscape Work	42 days	Mon 28/03/22	Sun 22/05/22	39	39FS+15 days	
54	ELECTRICAL WORK	308 days	Mon 28/06/21	Sun 22/05/22			
55	Power Supply & Distribution System	77 days	Mon 03/01/22	Sun 20/03/22	52	52SS	
56	Distribution Panel	175 days	Mon 20/09/21	Sun 20/03/22	46	46SS	
57	Cable Tray and Cable Ladder Works	259 days	Mon 28/06/21	Sun 20/03/22	12	12	65SS
58	Lighting System	217 days	Mon 09/08/21	Sun 20/03/22	62	62SS	
59	Receptacles / Socket Outlet System	175 days	Mon 20/09/21	Sun 20/03/22	44	44	61SS
60	Air Conditioning and Fan Power Supply System	217 days	Mon 09/08/21	Sun 20/03/22	17	17	62SS;67FS-7 days
61	Power Monitoring System	210 days	Mon 20/09/21	Sun 24/04/22	59	59SS	
62	Data Communication System	252 days	Mon 09/08/21	Sun 24/04/22	60	60SS	63SS;58SS
63	security and Surveillance System (CCTV)	252 days	Mon 09/08/21	Sun 24/04/22	62	62SS	64SS
64	Mass Notification System	252 days	Mon 09/08/21	Sun 24/04/22	63	63SS	76SS
65	Fire Alarm System	294 days	Mon 28/06/21	Sun 24/04/22	57	57SS	
66	Finger Print System	98 days	Mon 17/01/22	Sun 24/04/22	35	35FS-7 days	
67	Photovoltaic / Solar Panel System	56 days	Mon 14/03/22	Sun 22/05/22	60	60FS-7 days	
68	Lighting Protection System	28 days	Mon 30/08/21	Sun 26/09/21	32	32SS	77FS-14 days
69	MECHANICAL WORK	406 days	Mon 08/03/21	Sun 22/05/22			
70	Clean water Works	217 days	Mon 09/08/21	Sun 20/03/22	76	76SS	71FS-7 days;72FS-42 days
71	Portable Water System	56 days	Mon 14/03/22	Sun 22/05/22	70	70FS-7 days	
72	Recycle Water System	91 days	Mon 07/02/22	Sun 22/05/22	70	70FS-42 days	73SS
73	Rain Water System	91 days	Mon 07/02/22	Sun 22/05/22	72	72SS	
74	Waste Water System	307 days	Mon 08/03/21	Sun 15/05/22	5	5FS-7 days	75SS
75	Fire Fighting	217 days	Mon 09/08/21	Sun 20/03/22	74	74SS	
76	Ventilation and Air Conditioning	217 days	Mon 09/08/21	Sun 20/03/22	64	64SS	79SS;70SS
77	Elevator System	231 days	Mon 13/09/21	Sun 22/05/22	68	68FS-14 days	
78	BUILDING MONITORING SYSTEM WORK	266 days	Mon 09/08/21	Sun 22/05/22			
79	BMS For Electrical Works	266 days	Mon 09/08/21	Sun 22/05/22	76	76SS	80SS
80	BMS For Mechanical Works	266 days	Mon 09/08/21	Sun 22/05/22	79	79SS	

Lampiran 4
Network Planning Crashing



Lampiran 5
Perhitungan *Fast Track*

No	Item Pekerjaan	Normal		Fast Track		Selisih Dengan Normal	
		Biaya (Rp.)	Durasi (Hari)	Biaya (Rp.)	Durasi (Hari)	Biaya (Rp.)	Durasi (Hari)
	STRUCTURE WORK						
13	5th floor	159.996.094.241	56	173.230.874.660	28	13.234.780.419	28
14	6th floor	159.996.094.241	56	173.230.874.660	28	13.234.780.419	28
15	7th floor	159.996.094.241	49	173.230.874.660	21	13.234.780.419	28
16	8th floor	159.996.094.241	49	173.230.874.660	28	13.234.780.419	21
17	9th floor	159.996.094.241	49	173.230.874.660	21	13.234.780.419	28
18	10th floor	159.996.094.241	49	173.230.874.660	28	13.234.780.419	21
19	11th floor	159.996.094.241	49	173.230.874.660	21	13.234.780.419	28
20	Roof floor	159.996.094.241	49	173.230.874.660	28	13.234.780.419	21
21	Work Roof Truss and Cover	159.996.094.241	35	173.230.874.660	7	13.234.780.419	28
20	Dampers and Supervision Works						
23	Damper Installation	159.996.094.241	81	173.230.874.660	81	13.234.780.419	0
	ARCHITECTURAL WORK						
28	1st floor	159.996.094.241	126	173.230.874.660	126	13.234.780.419	0
29	2nd floor	159.996.094.241	126	173.230.874.660	0	13.234.780.419	126
30	3th floor	159.996.094.241	126	173.230.874.660	126	13.234.780.419	0
31	4th floor	159.996.094.241	126	173.230.874.660	0	13.234.780.419	126
32	5th floor	159.996.094.241	98	173.230.874.660	98	13.234.780.419	0
33	6th floor	159.996.094.241	98	173.230.874.660	0	13.234.780.419	98
34	7th floor	159.996.094.241	98	173.230.874.660	98	13.234.780.419	0
35	8th floor	159.996.094.241	98	173.230.874.660	0	13.234.780.419	98
36	9th floor	159.996.094.241	98	173.230.874.660	98	13.234.780.419	0
37	10th floor	159.996.094.241	98	173.230.874.660	0	13.234.780.419	98
40	Fasade Work	159.996.094.241	294	173.230.874.660	231	13.234.780.419	63
41	Other Work (Signage, memorial plaque, room name, etc)	159.996.094.241	77	173.230.874.660	154	13.234.780.419	77
	SITE CONSTRUCTION WORKS						
47	Ground Water Tank Work	159.996.094.241	77	173.230.874.660	77	13.234.780.419	0
49	Flagpole work	159.996.094.241	14	173.230.874.660	63	13.234.780.419	49
50	Stone Masonry work	159.996.094.241	35	173.230.874.660	28	13.234.780.419	7
	ELECTRICAL WORK						
60	Air Conditioning and Fan Power Supply System	159.996.094.241	217	173.230.874.660	217	13.234.780.419	0
63	Security and Surveillance System (CCTV)	159.996.094.241	252	173.230.874.660	35	13.234.780.419	217
67	Photovoltaic / Solar Panel System	159.996.094.241	56	173.230.874.660	21	13.234.780.419	35
68	Lighting Protection System	159.996.094.241	28	173.230.874.660	7	13.234.780.419	21
	MECHANICAL WORK						
70	Clean water Works	159.996.094.241	217	173.230.874.660	217	13.234.780.419	0
71	Portable Water System	159.996.094.241	56	173.230.874.660	161	13.234.780.419	105
72	Recycle Water System	159.996.094.241	91	173.230.874.660	70	13.234.780.419	21
73	Rain Water System	159.996.094.241	91	173.230.874.660	21	13.234.780.419	70

Lampiran 6
Perhitungan *Crashing*

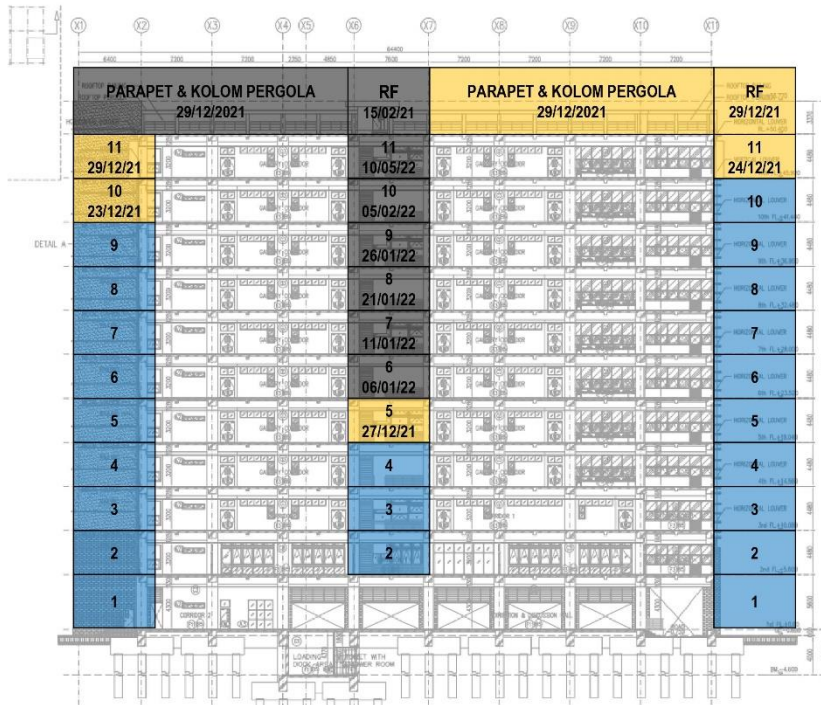
No	Item Pekerjaan	Normal		Crashing		Selisih Dengan Normal	
		Biaya (Rp.)	Durasi (Hari)	Biaya (Rp.)	Durasi (Hari)	Biaya (Rp.)	Durasi (Hari)
	STRUCTURE WORK						
13	5th floor	159.996.094.251	56	175.420.786.234	45	15.424.691.983	11
14	6th floor	159.996.094.241	56	175.420.786.234	45	15.424.691.993	11
15	7th floor	159.996.094.241	49	175.273.886.405	39	15.277.792.164	10
16	8th floor	159.996.094.241	49	175.273.886.405	39	15.277.792.164	10
17	9th floor	159.996.094.241	49	175.273.886.405	39	15.277.792.164	10
18	10th floor	159.996.094.241	49	175.273.886.405	39	15.277.792.164	10
19	11th floor	159.996.094.241	49	175.273.886.405	39	15.277.792.164	10
20	Roof floor	159.996.094.241	49	175.273.886.405	39	15.277.792.164	10
21	Work Roof Truss and Cover	159.996.094.241	35	175.273.886.405	28	15.277.792.164	7
20	Dampers and Supervision Works						
23	Damper Installation	159.996.094.241	81	175.873.576.240	67	15.877.481.999	14
	ARCHITECTURAL WORK						
28	1st floor	159.996.094.241	126	175.992.063.345	105	15.995.969.104	21
29	2nd floor	159.996.094.241	126	175.992.063.345	105	15.995.969.104	21
30	3th floor	159.996.094.241	126	175.992.063.345	105	15.995.969.104	21
31	4th floor	159.996.094.241	126	175.992.063.345	105	15.995.969.104	21
32	5th floor	159.996.094.241	98	176.057.352.157	82	16.061.257.916	16
33	6th floor	159.996.094.241	98	176.057.352.157	82	16.061.257.916	16
34	7th floor	159.996.094.241	98	176.057.352.157	82	16.061.257.916	16
35	8th floor	159.996.094.241	98	176.057.352.157	82	16.061.257.916	16
36	9th floor	159.996.094.241	98	176.057.352.157	82	16.061.257.916	16
37	10th floor	159.996.094.241	98	176.057.352.157	82	16.061.257.916	16
40	Fasade Work	159.996.094.241	294	176.339.175.218	235	16.343.080.977	59
41	Other Work (Signage, memorial plaque, room name. etc)	159.996.094.241	77	175.701.231.361	63	15.705.137.120	14
	SITE CONSTRUCTION WORKS						
47	Ground Water Tank Work	159.996.094.241	77	174.953.377.689	60	14.957.283.448	17
49	Flagpole work	159.996.094.241	14	172.335.889.743	9	12.339.795.502	5
50	Stone Masonry work	159.996.094.241	35	170.416.398.743	29	10.420.304.502	6
	ELECTRICAL WORK						
60	Air Conditioning and Fan Power Supply System	159.996.094.241	217	176.422.085.033	186	16.425.990.792	31
63	Security and Surveillance System (CCTV)	159.996.094.241	252	175.382.701.093	202	15.386.606.852	50
67	Photovoltaic / Solar Panel System	159.996.094.241	56	175.420.786.234	45	15.424.691.993	11
68	Lighting Protection System	159.996.094.241	28	175.420.786.234	24	15.424.691.993	4
	MECHANICAL WORK						
70	Clean water Works	159.996.094.241	217	175.387.615.305	174	15.391.521.064	43
71	Portable Water System	159.996.094.241	56	176.106.318.767	47	16.110.224.526	9
72	Recycle Water System	159.996.094.241	91	176.027.218.859	76	16.031.124.618	15
13	Rain Water System	159.996.094.241	91	176.027.218.859	76	16.031.124.618	15

Lampiran 7
Gambar Proyek

DOKUMENTASI SGLC

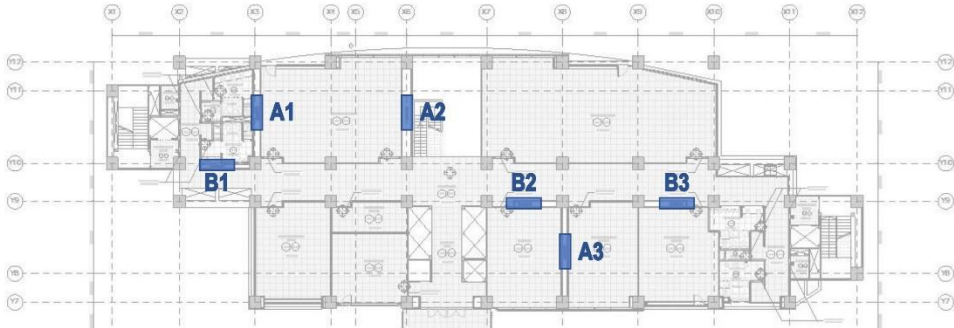


PEKERJAAN STRUKTUR



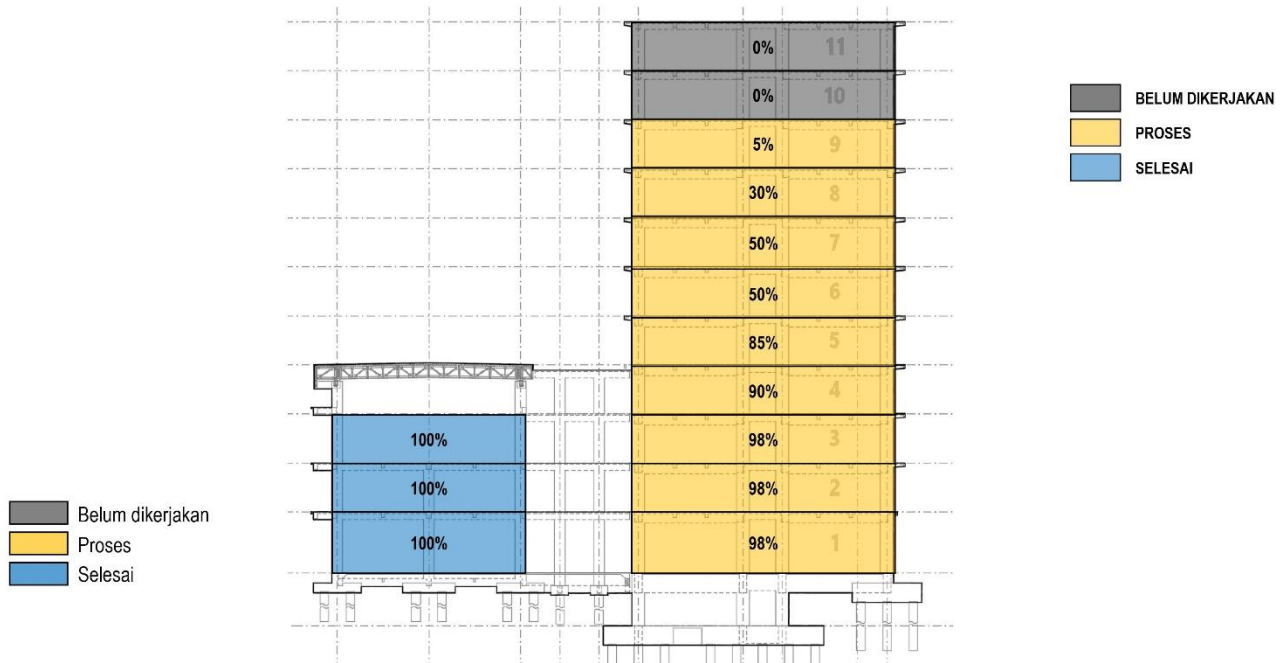
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- PROSES
- SELESAI

PEKERJAAN DAMPER

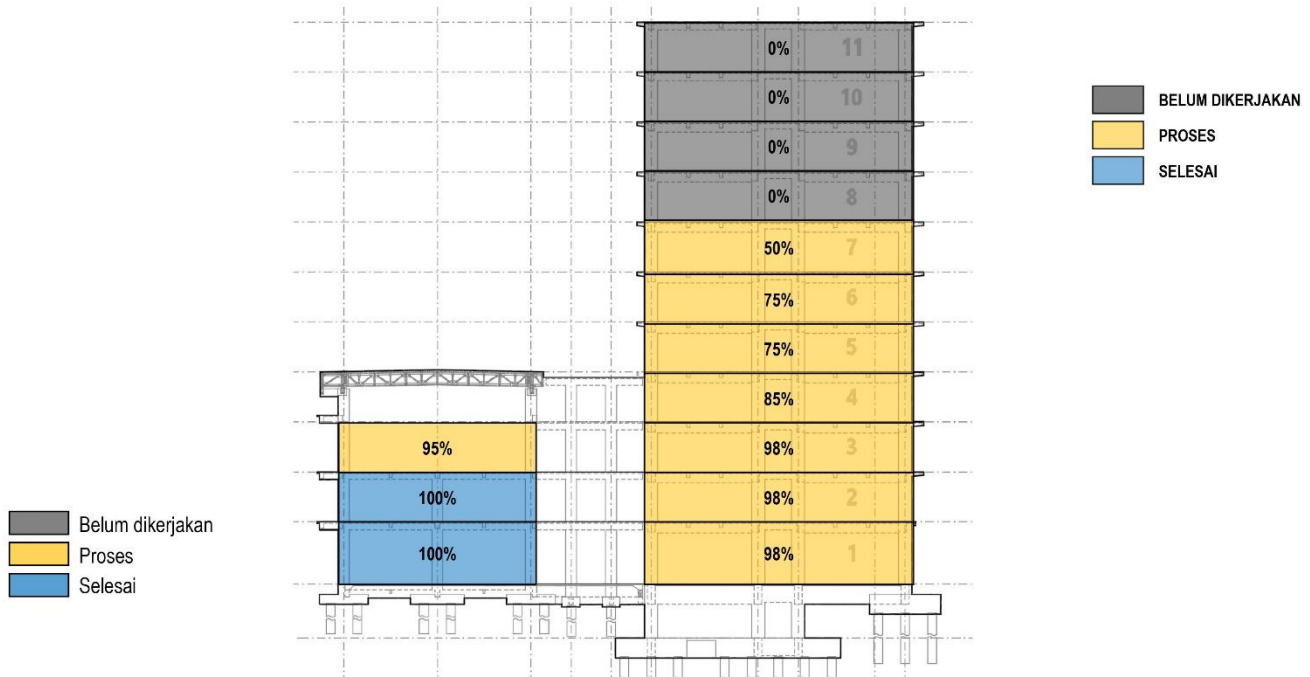


TIPE	LANTAI										
	1	2	3	4	5	6	7	8	9	10	11
A1	100%	100%	100%	100%	100%	100%	100%	100%	100%	Frame	Frame
A2	100%	100%	100%	100%	100%	100%	100%	100%	100%	Frame	Frame
A3	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	Frame
B1	100%	100%	100%	100%	100%	100%	100%	100%	100%	Frame	
B2	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	Frame
B3	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	Frame

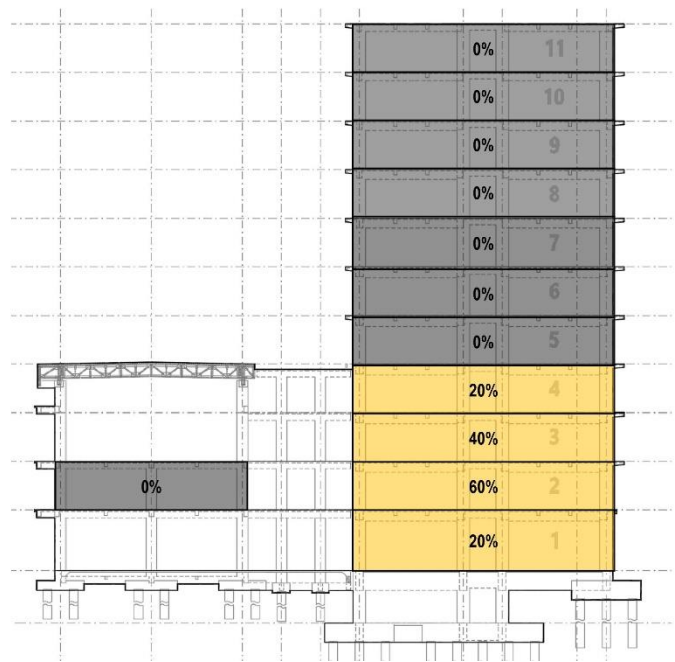
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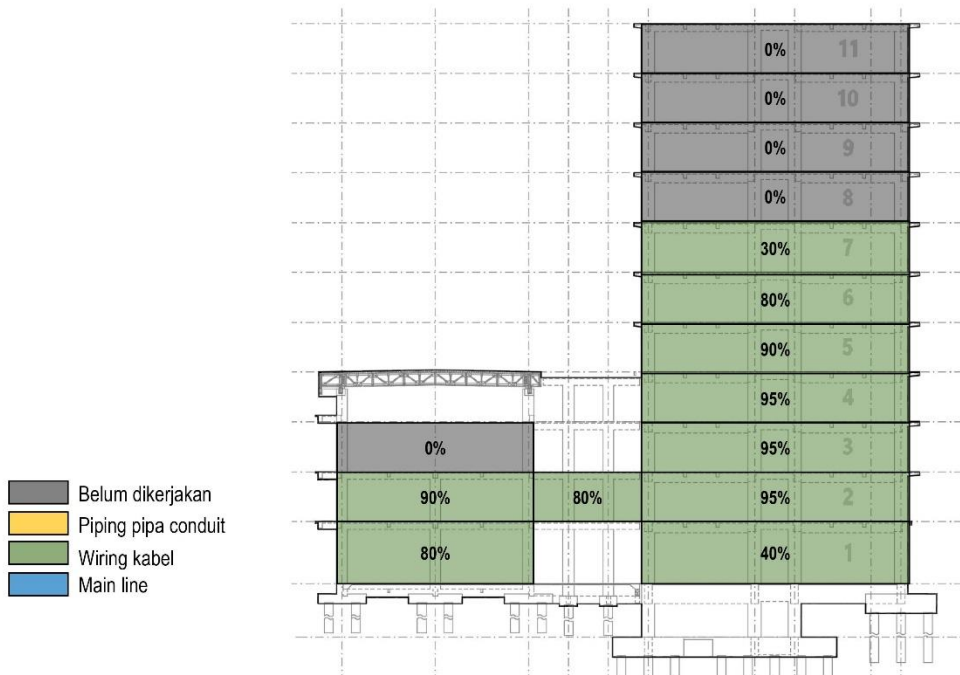
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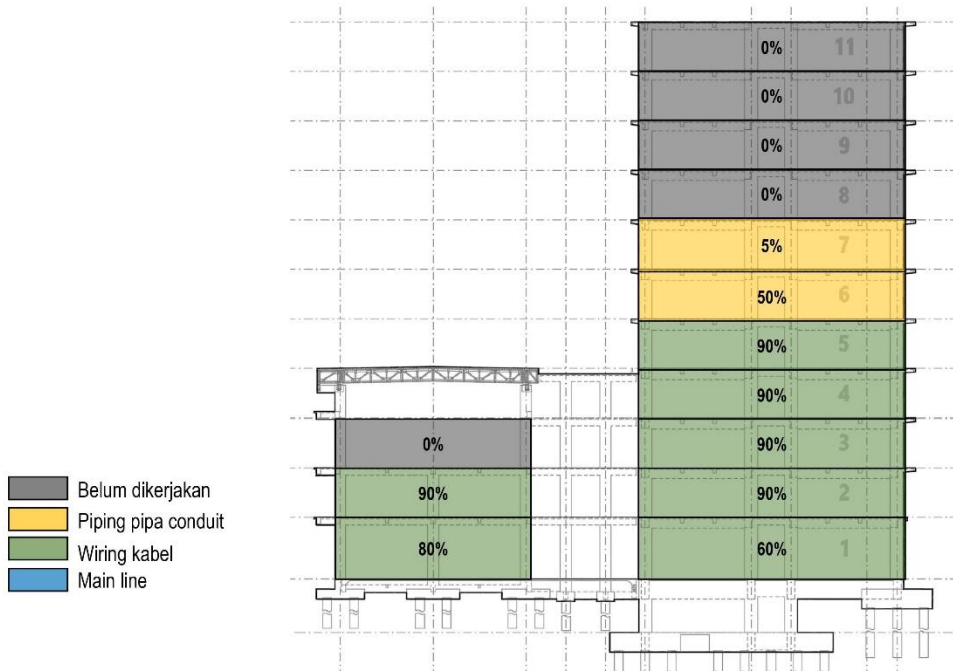
PEKERJAAN DINDING PARTISI



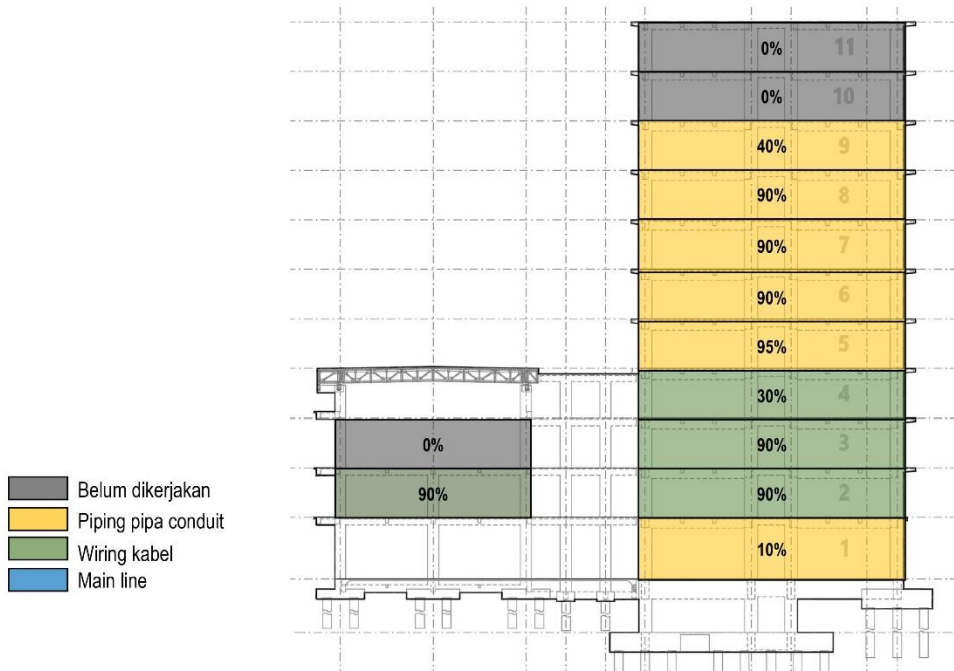
PEKERJAAN INSTALASI LISTRIK (PENERANGAN)



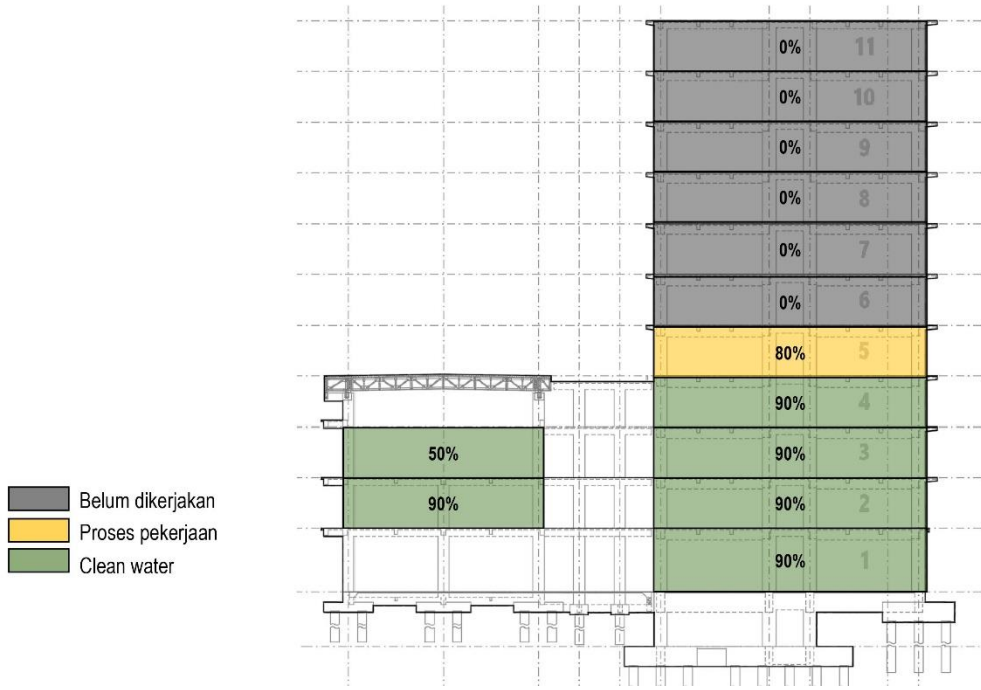
PEKERJAAN INSTALASI STOP KONTAK



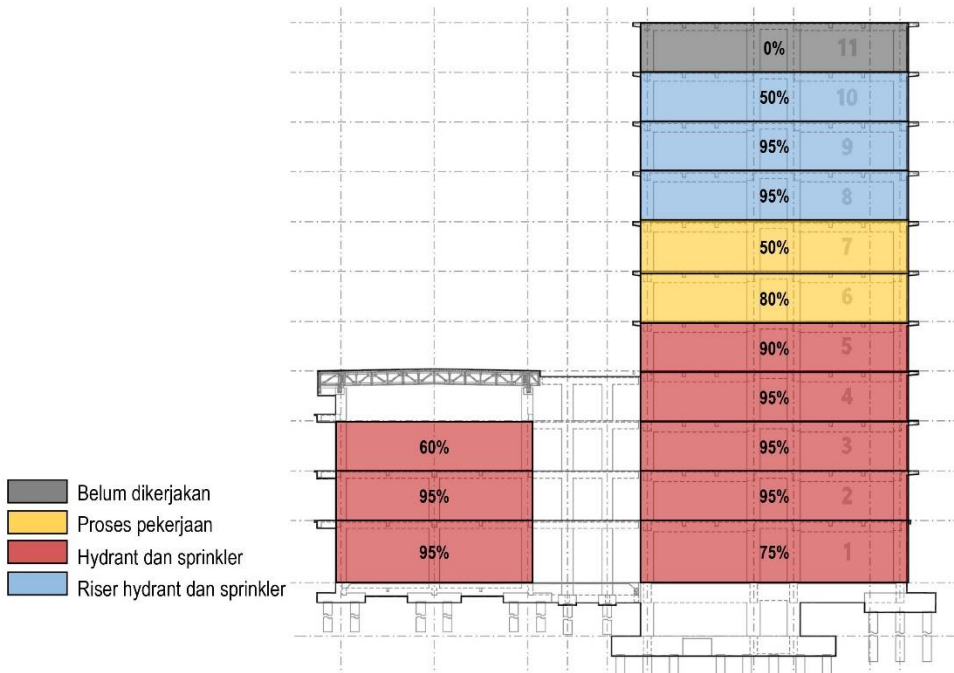
PEKERJAAN INSTALASI KABEL DATA



PEKERJAAN INSTALASI CLEAN WATER



PEKERJAAN INSTALASI FIRE FIGHTING



Lampiran 8
Biografi Penulis

BIOGRAFI PENULIS



SHOLEHUDIN, lahir di pasuruan 17 Februari 1999 merupakan anak dari ayah ABD. SOMAD dan ibu MUJIATI. Penulis telah menempuh pendidikan formal di SDN DAYUREJO 2 (lulus tahun 2011), SMP N 2 PRIGEN (lulus tahun 2014), dan SMK TEKSTIL PANDAAN (lulus tahun 2017).

Pada tahun 2017, penulis melanjutkan studi Program Sarjana di Program Studi Teknik Sipil Universitas Muhammadiyah Surabaya.

Penulis memiliki pengalaman kerja sebagai Marketing di CV AL BAROKAH JAYA mulai september 2020 hingga agustus 2021.

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