

BAB V

PENUTUP

5.1 Kesimpulan

Berdasarkan data yang telah diambil langsung di lapangan yang kemudian dilakukan analisis dan pembahasan maka dapat diambil kesimpulan sebagai berikut.

1. Perbandingan biaya pekerjaan dinding bata merah dengan bata ringan per 1 m²

Dari hasil pengamatan di lapangan yang kemudian dilakukan analisa biaya pada masing-masing pekerjaannya, maka didapatkan hasil sebagai berikut.

Tabel 5.1 Perbandingan biaya pekerjaan dinding bata merah dengan bata ringan per m²

	Bata Merah	Bata Ringan
Pemasangan	Rp 71.602,-	Rp 70.452,-
Plesteran	Rp 24.316,-	Rp 40.877,-
Acian	Rp 11.264,-	Rp 14.521,-
Total	Rp 107.812,-	Rp 125.850,-

Berdasarkan dari hasil analisa perhitungan biaya yang telah dilakukan, penggunaan bata ringan 1,17x atau 17% lebih mahal dibandingkan dengan bata merah. Hal ini dikarenakan dalam pemasangan bata ringan menggunakan material khusus dan harganya lebih mahal. Meskipun lebih mahal, bata ringan ini memiliki kerapian yang lebih baik, membutuhkan perekat yang lebih

sedikit, dan apabila akan membangun sebuah proyek yang tinggi akan mengurangi beban struktur dari bangunan tersebut.

2. Perbandingan waktu pekerjaan dinding bata merah dengan bata ringan per m^2/jam

Dari hasil pengamatan di lapangan yang kemudian dilakukan analisa waktu pada masing-masing pekerjaannya, maka didapatkan hasil sebagai berikut.

Tabel 5.2 Perbandingan waktu pekerjaan dinding bata merah dengan bata ringan per m^2/jam

	Bata Merah	Bata Ringan
Pemasangan	2,615 m^2/jam	3,512 m^2/jam
Plesteran	3,47 m^2/jam	4,743 m^2/jam
Acian	6,515 m^2/jam	9,343 m^2/jam

Berdasarkan dari hasil analisa perhitungan waktu yang telah dilakukan, penggunaan bata merah 1,4x atau 40% lebih lama pengerjaannya dibandingkan dengan bata ringan. Hal ini dikarenakan ukuran dari bata ringan yang lebih besar, ukurannya yang seragam, kerapiannya yang lebih baik, serta tidak membutuhkan perekat dan plesteran yang tebal dalam pemasangannya, Meskipun lebih lama, bata merah ini tidak memerlukan keahlian khusus dalam pemasangannya, bahan material yang digunakan lebih murah, dan ukurannya yang kecil sehingga mempermudah dalam proses pengangkutannya. Akan tetapi yang perlu diperhatikan adalah dalam proses pemasangan bata merah ini tidak bisa langsung dikerjakan langsung dari bawah hingga atas.

5.2 Saran

Berdasarkan penelitian yang telah dilakukan oleh penulis, maka ada beberapa saran yang bisa dijadikan masukan untuk penelitian berikutnya yaitu :

1. Menanyakan secara pasti kepada para pekerja kapan dan bagian mana pekerjaan akan dilaksanakan sehingga tidak akan membuang waktu saat melakukan pengamatan di proyek.
2. Mengambil data material yang digunakan secara pasti yang ada di lapangan.
3. Jumlah objek yang diamati bisa ditambah agar mendapatkan hasil yang lebih akurat.
4. Dapat mempertimbangkan aspek lain untuk memilih material dinding yang akan digunakan.

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LAMPIRAN 1
VOLUME PEKERJAAN DINDING
Pekerjaan Pemasangan Dinding Bata Ringan

No	Tanggal	Lantai	As Dinding	Ukuran Dinding		Luas Dinding (m ²)	Pintu, Jendela, Bouven		A Pintu, Jendela, Bouven (m ²)	Luas Total (Luas Dinding-A P/J/BV)
				L (m)	T (m)		n	L (m)		
1	07/09/2020	3	As 1 (E-F)	6,6	3,4	22,44	3	1,2	2,24	8,064
2	08/09/2020	3	As 3 (E-F)	6,6	3,4	22,44	3	1,2	0,63	2,268
3	09/09/2020	3	As E (3-4)	7,2	3,35	24,12			0	24,12
		3	As 3 (F-G)	6,6	3,4	22,44	2	1,2	0,63	1,512
							1	1,48	2,14	3,1672
4	14/09/2020	4	As C (3-4)	7,2	3,4	24,48	1	2,8	2,7	7,56
5		4	As 4 (C-D)	6,6	3,5	23,1	1	2,8	2,7	7,56
6		4	As C (2-3)	2,4	3,4	8,16	1	2,35	2,7	6,345
7	15/09/2020	4	As 2 (A-B)	4,2	3,5	14,7	1	4,05	2,7	10,935
8		4	As 2 (B-C)	6,6	3,5	23,1	1	6,55	2,7	17,685
9		4	As 2 (Aa-A)	2,1	3,5	7,35	1	1,95	2,7	5,265
10	16/09/2020	4	As E (1-2)	7,4	3,4	25,16			0	25,16
11		4	As 1 (E-F)	7,4	3,5	25,9	3	1,2	2,24	8,064
12		4	As 1 (F-G)	7,4	3,5	25,9	3	1,2	2,24	8,064
13	17/09/2020	4	As 4 (G-H)	6,6	3,5	23,1	3	1,2	2,24	8,064
14		4	As 4 (H-I)	6,6	3,5	23,1	3	1,2	2,24	8,064
15	18/09/2020	4	As 2 (G-H)	6,6	3,5	23,1	2	1,2	0,63	1,512
							1	1,48	2,14	3,1672
16		4	As 2 (H-I)	6,6	3,5	23,1	2	1,2	0,63	1,512
							1	1,48	2,14	3,1672
17	19/09/2020	4	As 1 (1-2)	7,4	3,4	25,16			0	25,16
18		4	As 3 (J-K)	7,4	3,5	25,9	1	2,8	2,7	7,56
19							1	2,8	0,63	1,764
20		4	As K (2-3)	2,4	3,4	8,16	1	2,35	2,7	6,345

Pekerjaan Plesteran Dinding Bata Ringan

No	Tanggal	Lantai	As Dinding	Ukuran Dinding		Luas Dinding (m ²)	Pintu, Jendela, Bouven			A Pintu, Jendela, Bouven (m ²)	Luas Total (Luas Dinding-A P/J/BV)
				L (m)	T (m)		n	L (m)	T (m)		
1	07/09/2020	2	As 2 (E-F)	6,6	3,4	22,44	2	1,2	0,63	1,512	17,7608
							1	1,48	2,14	3,1672	
2	10/09/2020	2	As 2 (H-I)	6,6	3,4	22,44	3	1,2	0,63	2,268	20,172
3	11/09/2020	2	As 1 (F-G)	6,6	3,4	22,44	3	1,2	2,24	8,064	
4	18/09/2020	2	As 2 (F-G)	6,6	3,4	22,44	2	1,2	0,63	1,512	17,7608
							1	1,48	2,14	3,1672	
5		2	As 3 (F-G)	6,6	3,4	22,44	2	1,2	0,63	1,512	17,7608
							1	1,48	2,14	3,1672	
6	19/09/2020	2	As J (3-4)	7,4	3,35	24,79	1	0,975	0,63	0,61425	24,17575
7	21/09/2020	2	As 4 (E-F)	6,6	3,5	23,1	3	1,2	2,24	8,064	
8		2	As E (3-4)	7,4	3,4	25,16				0	25,16
9	23/09/2020	2	As E (1-2)	7,4	3,4	25,16				0	
10		2	As 3 (E-F)	6,6	3,5	23,1	3	1,2	0,63	2,268	20,832
11	24/09/2020	2	As 1 (E-F)	6,6	3,5	23,1	3	1,2	2,24	8,064	
12		2	As 1 (F-G)	6,6	3,5	23,1	3	1,2	2,24	8,064	15,036

Pekerjaan Acian Dinding Bata Ringan

No	Tanggal	Lantai	As Dinding	Ukuran Dinding		Luas Dinding (m ²)	Pintu, Jendela, Bouven			A Pintu, Jendela, Bouven (m ²)	Luas Total (Luas Dinding-A P/J/BV)
				L (m)	T (m)		n	L (m)	T (m)		
1	08/09/2020	1	As 2 (E-F)	6,6	3,4	22,44	2	1,2	0,63	1,512	35,5216
							1	1,48	2,14	3,1672	
2	12/09/2020	1	As K (2-3)	2,4	3,35	8,04	1	2,35	2,7	6,345	1,695
3		1	As 2 (J-K)	6,6	3,4	22,44	1	2,8	2,7	7,56	
							1	2,8	0,63	1,764	13,116
4	22/09/2020	1	As 1 (Aa-A)	2,1	3,5	7,35				0	
5		1	As 1 (A-B)	4,2	3,5	14,7				0	14,7
6		1	As 2 (A-B)	4,2	3,5	14,7	1	4,05	2,7	10,935	
7	23/09/2020	1	As 2 (E-F)	6,6	3,5	23,1	2	1,2	0,63	1,512	18,4208
							1	1,48	2,14	3,1672	
8	25/09/2020	1	As 3 (E-F)	6,6	3,5	23,1	3	1,2	0,63	2,268	20,832
9		1	As 4 (E-F)	6,6	3,5	23,1	3	1,2	2,24	8,064	
10	26/09/2020	1	As 1 (I-J)	3	3,5	10,5				0	10,5
11		1	As I (I-2)	7,4	3,4	25,16				0	
12		1	As 2 (J-K)	6,6	3,5	23,1	1	2,8	2,7	7,56	13,776
							1	2,8	0,63	1,764	

Pekerjaan Pemasangan Dinding Bata Merah

No	Tanggal	Lantai	As Dinding	Ukuran Dinding		Luas Dinding (m ²)
				L (m)	T (m)	
1	12/10/2020	3	Y4-Y5	1,225	1,12	1,372
2		3	Y4-Y5	1,15	1,2	1,38
3		3	Y4-Y5	1,3	1,5	1,95
4	13/10/2020	3	Y4-Y5	3	0,8	2,4
5		3	Y4-Y5	0,5	1,28	0,64
6		3	Y4-Y5	1,15	1,12	1,288
7		3	Y4-Y5	1,5	1,04	1,56
8	14/10/2020	3	Y4-Y5	0,8	1,28	1,024
9		3	Y4-Y5	3	0,88	2,64
10		3	Y4-Y5	1,65	1,12	1,848
11		3	Y4-Y5	1,15	1,12	1,288
12	15/10/2020	3	Y4-Y5	1,5	1,12	1,68
13		3	Y4-Y5	1,65	1,04	1,716
14		3	Y4-Y5	0,5	1,44	0,72
15		3	Y4-Y5	1,55	1,12	1,736
16	19/10/2020	4	Y4-Y5	3	0,88	2,64
17		4	Y4-Y5	1,65	1,12	1,848
18	20/10/2020	4	Y4-Y5	3	1,12	3,36
19		4	Y4-Y5	1,2	1,44	1,728
20		4	Y4-Y5	1,65	1,44	2,376

Pekerjaan Plesteran Dinding Bata Merah

No	Tanggal	Lantai	As Dinding	Ukuran Dinding		Luas Dinding (m ²)
				L (m)	T (m)	
1	13/10/2020	2	Y3-Y4	4,5	4	18
2		2	Y3-Y4	1,8	4	7,2
3		2	Y3-Y4	1,8	4	7,2
4	14/10/2020	2	Y4-Y5	1,4	4	5,6
5		2	Y4-Y5	1,875	4	7,5
6	16/10/2020	2	Y4-Y5	3,6	4	14,4
7		2	Y4-Y5	2	4	8
8		2	Y5-Y6	3,2	4	12,8
9		2	Y5-Y6	2	4	8
10	17/10/2020	2	Y5-Y6	1,6	4	6,4
11		2	Y5-Y6	1,5	4	6
12		2	Y5-Y6	1,3	4	5,2

Pekerjaan Acian Dinding Bata Merah

No	Tanggal	Lantai	As Dinding	Ukuran Dinding		Luas Dinding (m ²)
				L (m)	T (m)	
1	15/10/2020	1	Y4-Y5	3,5	4	14
2		1	Y4-Y5	1,55	4	6,2
3		1	Y4-Y5	1	4	4
4	16/10/2020	1	Y4-Y5	2	4	8
5		1	Y4-Y5	7	4	28
6		1	Y4-Y5	1,55	1,8	2,79
7		1	Y4-Y5	1,65	1,8	2,97
8	17/10/2020	1	Y4-Y5	3	1,8	5,4
9		1	Y4-Y5	0,65	1,8	1,17
10	20/10/2020	1	Y4-Y5	4	4	16
11		1	Y4-Y5	1,675	4	6,7
12		1	Y4-Y5	1,9	4	7,6

LAMPIRAN 2
WAKTU PEKERJAAN DINDING

Pekerjaan Pemasangan Bata Ringan

No	Tanggal	As Dinding	Luas Dinding	Durasi			Total Durasi	Konversi
			(m ²)	Jam Mulai	Jam Selesai	Jam Istirahat		
1	07/09/2020	As 1 (E-F)	14,376	08:05:00	11:13:05		03:08:05	3,1347
2	08/09/2020	As 3 (E-F)	20,172	08:37:00	13:51:34	01:00:00	04:14:34	4,2428
3	09/09/2020	As E (3-4)	24,12	08:03:00	14:25:19	01:00:00	05:22:19	5,3719
4		As 3 (F-G)	17,7608	08:47:00	13:37:07	01:00:00	03:50:07	3,8353
5	14/09/2020	As C (3-4)	16,92	09:13:00	13:43:25	01:00:00	03:30:25	3,5069
6		As 4 (C-D)	15,54	09:06:00	13:18:42	01:00:00	03:12:42	3,2117
7		As C (2-3)	1,815	13:00:00	13:20:38		00:20:38	0,3439
8	15/09/2020	As 2 (A-B)	3,765	09:35:00	10:18:07		00:43:07	0,7186
9		As 2 (B-C)	5,415	09:39:00	10:43:33		01:04:33	1,0758
10		As 2 (Aa-A)	2,085	13:10:00	13:30:55		00:20:55	0,3486
11	16/09/2020	As E (1-2)	25,16	08:05:00	14:27:37	01:00:00	05:22:37	5,3769
12		As 1 (E-F)	17,836	09:32:00	14:15:17	01:00:00	03:43:17	3,7214
13		As 1 (F-G)	17,836	09:07:00	13:55:42	01:00:00	03:48:42	3,8117
14	17/09/2020	As 4 (G-H)	15,036	09:40:00	13:49:31	01:00:00	03:09:31	3,1586
15		As 4 (H-I)	15,036	10:13:00	14:32:29	01:00:00	03:19:29	3,3247
16	18/09/2020	As 2 (G-H)	18,4208	08:51:00	14:06:41	01:00:00	04:15:41	4,2614
17		As 2 (H-I)	18,4208	09:04:00	13:55:14	01:00:00	03:51:14	3,8539
18	19/09/2020	As I (1-2)	25,16	08:12:00	14:46:09	01:00:00	05:34:09	5,5692
19		As 3 (J-K)	16,576	09:18:00	13:50:52	01:00:00	03:32:52	3,5478
20		As K (2-3)	1,815	13:15:00	13:34:48		00:19:48	0,3300

Pekerjaan Plesteran Dinding Bata Ringan

No	Tanggal	As Dinding	Luas Dinding	Durasi			Total Durasi	Konversi
			(m ²)	Jam Mulai	Jam Selesai	Jam Istirahat		
1	07/09/2020	As 2 (E-F)	17,7608	10:12:00	13:43:21	01:00:00	02:31:21	2,5225
2	10/09/2020	As 2 (H-I)	20,172	10:15:00	14:24:48	01:00:00	03:09:48	3,1633
3	11/09/2020	As 1 (F-G)	14,376	10:27:00	13:21:41	01:00:00	01:54:41	1,9114
4	18/09/2020	As 2 (F-G)	17,7608	09:32:00	13:47:05	01:00:00	03:15:05	3,2514
5		As 3 (F-G)	17,7608	09:52:00	13:35:08	01:00:00	02:43:08	2,7189
6	19/09/2020	As J (3-4)	24,17575	09:03:00	14:02:13	01:00:00	03:59:13	3,9869
7	21/09/2020	As 4 (E-F)	15,036	10:03:00	13:17:25	01:00:00	02:14:25	2,2403
8		As E (3-4)	25,16	08:38:00	13:49:34	01:00:00	04:11:34	4,1928
9	23/09/2020	As E (1-2)	25,16	08:09:00	13:26:07	01:00:00	04:17:07	4,2853
10		As 3 (E-F)	20,832	09:23:00	13:45:28	01:00:00	03:22:28	3,3744
11	24/09/2020	As 1 (E-F)	15,036	10:22:00	13:43:09	01:00:00	02:21:09	2,3525
12		As 1 (F-G)	15,036	10:37	13:51:36	01:00:00	02:14:36	2,2433

Pekerjaan Acian Dinding Bata Ringan

No	Tanggal	As Dinding	Luas Dinding	Durasi			Total Durasi	Konversi
			(m ²)	Jam Mulai	Jam Selesai	Jam Istirahat		
1	08/09/2020	As 2 (E-F)	35,5216	08:07:00	11:09:39		03:02:39	3,0442
2	12/09/2020	As K (2-3)	1,695	10:12:00	10:18:49		00:06:49	0,1136
3		As 2 (J-K)	13,116	10:45:00	11:42:58		00:57:58	0,9661
4	22/09/2020	As 1 (Aa-A)	7,35	09:05:00	09:38:49		00:33:49	0,5636
5		As 1 (A-B)	14,7	09:29:00	10:41:53		01:12:53	1,2147
6		As 2 (A-B)	3,765	09:46:00	10:01:42		00:15:42	0,2617
7	23/09/2020	As 2 (E-F)	18,4208	09:33:00	11:02:28		01:29:28	1,4911
8	25/09/2020	As 3 (E-F)	20,832	09:18:00	11:08:01		01:50:01	1,8336
9		As 4 (E-F)	15,036	09:39:00	10:46:14		01:07:14	1,1206
10	26/09/2020	As 1 (I-J)	10,5	08:09:00	08:59:19		00:50:19	0,8386
11		As I (1-2)	25,16	08:16:00	10:26:41		02:10:41	2,1781
12		As 2 (J-K)	13,776	08:02:00	09:04:49		01:02:49	1,0469

Pekerjaan Pemasangan Dinding Bata Merah

No	Tanggal	As Dinding	Luas Dinding (m ²)	Durasi			Total Durasi	Konversi
				Jam Mulai	Jam Selesai	Jam Istirahat		
1	12/10/2020	Y4-Y5	1,372	08:06:00	08:27:37		00:21:37	0,3603
2		Y4-Y5	1,38	08:11:00	08:32:19		00:21:19	0,3553
3		Y4-Y5	1,95	08:43:00	09:24:21		00:41:21	0,6892
4	13/10/2020	Y4-Y5	2,4	08:05:00	08:52:26		00:47:26	0,7906
5		Y4-Y5	0,64	08:12:00	08:20:36		00:08:36	0,1433
6		Y4-Y5	1,288	13:08:00	13:29:25		00:21:25	0,3569
7		Y4-Y5	1,56	13:21	13:46:48		00:25:48	0,4300
8	14/10/2020	Y4-Y5	1,024	08:02:00	08:17:33		00:15:33	0,2592
9		Y4-Y5	2,64	08:14:00	09:08:27		00:54:27	0,9075
10		Y4-Y5	1,848	13:05:00	13:35:48		00:30:48	0,5133
11		Y4-Y5	1,288	13:07:00	13:29:11		00:22:11	0,3697
12	15/10/2020	Y4-Y5	1,68	08:12:00	08:41:51		00:29:51	0,4975
13		Y4-Y5	1,716	08:22:00	08:58:08		00:36:08	0,6022
14		Y4-Y5	0,72	13:09:00	13:18:33		00:09:33	0,1592
15		Y4-Y5	1,736	13:11:00	13:47:58		00:36:58	0,6161
16	19/10/2020	Y4-Y5	2,64	13:05:00	13:41:29		00:36:29	0,6081
17		Y4-Y5	1,848	13:47:00	14:14:33		00:27:33	0,4592
18	20/10/2020	Y4-Y5	3,36	10:09:00	11:18:47		01:09:47	1,1631
19		Y4-Y5	1,728	11:24:00	11:58:28		00:34:28	0,5744
20		Y4-Y5	2,376	13:19:00	13:52:21		00:33:21	0,5558

Pekerjaan Plesteran Dinding Bata Merah

No	Tanggal	As Dinding	Luas Dinding (m ²)	Durasi			Total Durasi	Konversi
				Jam Mulai	Jam Selesai	Jam Istirahat		
1	13/10/2020	Y3-Y4	18	08:05:00	12:03:29		03:58:29	3,9747
2		Y3-Y4	7,2	08:21:00	09:41:33		01:20:33	1,3425
3		Y3-Y4	7,2	10:08:00	11:35:23		01:27:23	1,4564
4	14/10/2020	Y4-Y5	5,6	09:37:00	11:03:11		01:26:11	1,4364
5		Y4-Y5	7,5	14:32:00	16:03:28		01:31:28	1,5244
6	16/10/2020	Y4-Y5	14,4	08:11:00	11:18:01		03:07:01	3,1169
7		Y4-Y5	8	08:17:00	10:01:09		01:44:09	1,7358
8		Y5-Y6	12,8	13:04:00	15:41:57		02:37:57	2,6325
9		Y5-Y6	8	13:19:00	15:01:36		01:42:36	1,7100
10	17/10/2020	Y5-Y6	6,4	08:09:00	09:44:42		01:35:42	1,5950
11		Y5-Y6	6	13:15:00	14:25:21		01:10:21	1,1725
12		Y5-Y6	5,2	13:19:00	14:13:31		00:54:31	0,9086

Pekerjaan Acian Dinding Bata Merah

No	Tanggal	As Dinding	Luas Dinding (m ²)	Durasi			Total Durasi	Konversi
				Jam Mulai	Jam Selesai	Jam Istirahat		
1	15/10/2020	Y4-Y5	14	10:03:00	11:44:12		01:41:12	1,6867
2		Y4-Y5	6,2	10:29:00	11:14:39		00:45:39	0,7608
3		Y4-Y5	4	11:00:00	11:26:25		00:26:25	0,4403
4	16/10/2020	Y4-Y5	8	10:31:00	11:25:11		00:54:11	0,9031
5		Y4-Y5	28	10:42:00	15:03:31	01:00:00	03:21:31	3,3586
6		Y4-Y5	2,79	15:24:00	15:39:37		00:15:37	0,2603
7		Y4-Y5	2,97	16:02:00	16:21:11		00:19:11	0,3197
8	17/10/2020	Y4-Y5	5,4	10:43:00	11:15:28		00:32:28	0,5411
9		Y4-Y5	1,17	11:16:00	11:23:13		00:07:13	0,1203
10	20/10/2020	Y4-Y5	16	08:27:00	10:26:22		01:59:22	1,9894
11		Y4-Y5	6,7	09:33:00	10:21:17		00:48:17	0,8047
12		Y4-Y5	7,6	10:09:00	10:59:49		00:50:49	0,8469

LAMPIRAN 3
MATERIAL PEKERJAAN DINDING

Pekerjaan Pemasangan Dinding Bata Ringan

No	Tanggal	As Dinding	Luas Dinding	Material		
			(m ²)	Bata Ringan (bh)	Spesi (m ²)	Spesi (kg)
1	07/09/2020	As 1 (E-F)	14,376	117	0,2829	0,8488
2	08/09/2020	As 3 (E-F)	20,172	165	0,3970	1,1910
3	09/09/2020	As E (3-4)	24,12	197	0,4747	1,4240
4		As 3 (F-G)	17,7608	145	0,3495	1,0486
5	14/09/2020	As C (3-4)	16,92	138	0,3330	0,9990
6		As 4 (C-D)	15,54	127	0,3058	0,9175
7		As C (2-3)	1,815	15	0,0357	0,1072
8	15/09/2020	As 2 (A-B)	3,765	31	0,0741	0,2223
9		As 2 (B-C)	5,415	44	0,1066	0,3197
10		As 2 (Aa-A)	2,085	17	0,0410	0,1231
11	16/09/2020	As E (1-2)	25,16	206	0,4951	1,4854
12		As 1 (E-F)	17,836	146	0,3510	1,0530
13		As 1 (F-G)	17,836	146	0,3510	1,0530
14	17/09/2020	As 4 (G-H)	15,036	123	0,2959	0,8877
15		As 4 (H-I)	15,036	123	0,2959	0,8877
16	18/09/2020	As 2 (G-H)	18,4208	150	0,3625	1,0876
17		As 2 (H-I)	18,4208	150	0,3625	1,0876
18	19/09/2020	As I (1-2)	25,16	206	0,4951	1,4854
19		As 3 (J-K)	16,576	135	0,3262	0,9786
20		As K (2-3)	1,815	15	0,0357	0,1072

Pekerjaan Plesteran Dinding Bata Ringan

No	Tanggal	As Dinding	Luas Dinding	Material
			(m ²)	Plester instan(kg)
1	07/09/2020	As 2 (E-F)	17,7608	177,6080
2	10/09/2020	As 2 (H-I)	20,172	201,7200
3	11/09/2020	As 1 (F-G)	14,376	143,7600
4	18/09/2020	As 2 (F-G)	17,7608	177,6080
5		As 3 (F-G)	17,7608	177,6080
6	19/09/2020	As J (3-4)	24,17575	241,7575
7	21/09/2020	As 4 (E-F)	15,036	150,3600
8		As E (3-4)	25,16	251,6000
9	23/09/2020	As E (1-2)	25,16	251,6000
10		As 3 (E-F)	20,832	208,3200
11	24/09/2020	As 1 (E-F)	15,036	150,3600
12		As 1 (F-G)	15,036	150,3600

Pekerjaan Acian Dinding Bata Ringan

No	Tanggal	As Dinding	Volume Dinding	Material
			(m ²)	Aci instan
1	08/09/2020	As 2 (E-F)	35,5216	106,5648
2	12/09/2020	As K (2-3)	1,695	5,0850
3		As 2 (J-K)	13,116	39,3480
4	22/09/2020	As 1 (Aa-A)	7,35	22,0500
5		As 1 (A-B)	14,7	44,1000
6		As 2 (A-B)	3,765	11,2950
7	23/09/2020	As 2 (E-F)	18,4208	55,2624
8	25/09/2020	As 3 (E-F)	20,832	62,4960
9		As 4 (E-F)	15,036	45,1080
10	26/09/2020	As 1 (I-J)	10,5	31,5000
11		As I (1-2)	25,16	75,4800
12		As 2 (J-K)	13,776	41,3280

Pekerjaan Pemasangan Dinding Bata Merah

Berdasarkan SNI 6897:2008 1m2 membutuhkan semen 9,68 kg dan pasir 0,045 m3							
No	Tanggal	As Dinding	Luas Dinding (m ²)	Material			
				Bata Merah (bh)	Spesi (m ²)	semen (kg)	pasir (m ³)
1	12/10/2020	Y4-Y5	1,372	69	0,6174	13,2810	0,0617
2		Y4-Y5	1,38	69	0,6210	13,3584	0,0621
3		Y4-Y5	1,95	98	0,8775	18,8760	0,0878
4	13/10/2020	Y4-Y5	2,4	120	1,0800	23,2320	0,1080
5		Y4-Y5	0,64	32	0,2880	6,1952	0,0288
6		Y4-Y5	1,288	64	0,5796	12,4678	0,0580
7		Y4-Y5	1,56	78	0,7020	15,1008	0,0702
8	14/10/2020	Y4-Y5	1,024	51	0,4608	9,9123	0,0461
9		Y4-Y5	2,64	132	1,1880	25,5552	0,1188
10		Y4-Y5	1,848	92	0,8316	17,8886	0,0832
11		Y4-Y5	1,288	64	0,5796	12,4678	0,0580
12	15/10/2020	Y4-Y5	1,68	84	0,7560	16,2624	0,0756
13		Y4-Y5	1,716	86	0,7722	16,6109	0,0772
14		Y4-Y5	0,72	36	0,3240	6,9696	0,0324
15		Y4-Y5	1,736	87	0,7812	16,8045	0,0781
16	19/10/2020	Y4-Y5	2,64	132	1,1880	25,5552	0,1188
17		Y4-Y5	1,848	92	0,8316	17,8886	0,0832
18	20/10/2020	Y4-Y5	3,36	168	1,5120	32,5248	0,1512
19		Y4-Y5	1,728	86	0,7776	16,7270	0,0778
20		Y4-Y5	2,376	119	1,0692	22,9997	0,1069

Pekerjaan Plesteran Dinding Bata Merah

Berdasarkan SNI 6897:2008 1m² membutuhkan semen 4,42 kg dan pasir 0,027 m³

No	Tanggal	As Dinding	Luas Dinding (m ²)	Material	
				semen (kg)	pasir (m ³)
1	13/10/2020	Y3-Y4	18	79,5600	0,4860
2		Y3-Y4	7,2	31,8240	0,1944
3		Y3-Y4	7,2	31,8240	0,1944
4	14/10/2020	Y4-Y5	5,6	24,7520	0,1512
5		Y4-Y5	7,5	33,1500	0,2025
6	16/10/2020	Y4-Y5	14,4	63,6480	0,3888
7		Y4-Y5	8	35,3600	0,2160
8		Y5-Y6	12,8	56,5760	0,3456
9		Y5-Y6	8	35,3600	0,2160
10	17/10/2020	Y5-Y6	6,4	28,2880	0,1728
11		Y5-Y6	6	26,5200	0,1620
12		Y5-Y6	5,2	22,9840	0,1404

Pekerjaan Acian Dinding Bata Merah

Berdasarkan SNI 6897:2008 1m² membutuhkan semen 3,25 kg

No	Tanggal	As Dinding	Luas Dinding (m ²)	Material
				semen (kg)
1	15/10/2020	Y4-Y5	14	45,5
2		Y4-Y5	6,2	20,15
3		Y4-Y5	4	13
4	16/10/2020	Y4-Y5	8	26
5		Y4-Y5	28	91
6		Y4-Y5	2,79	9,0675
7		Y4-Y5	2,97	9,6525
8	17/10/2020	Y4-Y5	5,4	17,55
9		Y4-Y5	1,17	3,8025
10	20/10/2020	Y4-Y5	16	52
11		Y4-Y5	6,7	21,775
12		Y4-Y5	7,6	24,7

LAMPIRAN 4

NILAI RATING

Pekerjaan Pemasangan Dinding Bata Ringan

No	Tanggal	As Dinding	Rating				Total Rating	Performance Factor
			Skill	Effort	Condition	Consistency		
1	07/09/2020	As 1 (E-F)	0	0,02	0,02	0	0,04	1,04
2	08/09/2020	As 3 (E-F)	0,03	0,02	0,02	0	0,07	1,07
3	09/09/2020	As E (3-4)	0	0	0,02	0,01	0,03	1,03
4		As 3 (F-G)	0	0,02	0,02	0	0,04	1,04
5	14/09/2020	As C (3-4)	0,03	0,05	0,02	0	0,1	1,1
6		As 4 (C-D)	0,03	0,05	0,02	0	0,1	1,1
7		As C (2-3)	0,03	0,05	0,02	0,01	0,11	1,11
8	15/09/2020	As 2 (A-B)	0,06	0,02	0	0,01	0,09	1,09
9		As 2 (B-C)	0,03	0,02	0	0	0,05	1,05
10		As 2 (Aa-A)	0,06	0,05	0	0,01	0,12	1,12
11	16/09/2020	As E (1-2)	0,03	0	0,02	0	0,05	1,05
12		As 1 (E-F)	0,03	0,02	0,02	0	0,07	1,07
13		As 1 (F-G)	0,03	0	0,02	0	0,05	1,05
14	17/09/2020	As 4 (G-H)	0,03	0,02	-0,03	0	0,02	1,02
15		As 4 (H-I)	0,03	0,02	-0,03	0,01	0,03	1,03
16	18/09/2020	As 2 (G-H)	-0,05	0	0,02	0	-0,03	0,97
17		As 2 (H-I)	0,03	0	0,02	0	0,05	1,05
18	19/09/2020	As I (1-2)	0	0,02	0,02	0	0,04	1,04
19		As 3 (J-K)	0,03	0	0,02	0	0,05	1,05
20		As K (2-3)	0,06	0,05	0,02	0,01	0,14	1,14

Pekerjaan Plesteran Dinding Bata Ringan

No	Tanggal	As Dinding	Rating				Total Rating	Performance Factor
			Skill	Effort	Condition	Consistency		
1	07/09/2020	As 2 (E-F)	0,03	0,05	0	0,01	0,09	1,09
2	10/09/2020	As 2 (H-I)	0	0	0,02	0,01	0,03	1,03
3	11/09/2020	As 1 (F-G)	0,06	0,05	0,02	0,01	0,14	1,14
4	18/09/2020	As 2 (F-G)	-0,05	0	0	0	-0,05	0,95
5		As 3 (F-G)	0,03	0,02	0	0	0,05	1,05
6	19/09/2020	As J (3-4)	0	0	0	0,01	0,01	1,01
7	21/09/2020	As 4 (E-F)	0,06	0,02	0,02	0,01	0,11	1,11
8		As E (3-4)	0	0	0,02	0	0,02	1,02
9	23/09/2020	As E (1-2)	0	-0,04	0,02	-0,02	-0,04	0,96
10		As 3 (E-F)	0	0	0,02	0	0,02	1,02
11	24/09/2020	As 1 (E-F)	0	0,02	0	0,01	0,03	1,03
12		As 1 (F-G)	0,03	0	0,02	0	0,05	1,05

Pekerjaan Acian Dinding Bata Ringan

No	Tanggal	As Dinding	Rating				Total Rating	Performance Factor
			Skill	Effort	Condition	Consistency		
1	08/09/2020	As 2 (E-F)	0	-0,04	0,02	0	-0,02	0,98
2	12/09/2020	As K (2-3)	0,06	0,05	0,02	0,03	0,16	1,16
3		As 2 (J-K)	0,06	0,02	0,02	0,01	0,11	1,11
4	22/09/2020	As 1 (Aa-A)	0,03	0	0,02	0	0,05	1,05
5		As 1 (A-B)	0	0,02	0,02	0	0,04	1,04
6		As 2 (A-B)	0,06	0,05	0,02	0,01	0,14	1,14
7	23/09/2020	As 2 (E-F)	0,03	0	0	0,01	0,04	1,04
8	25/09/2020	As 3 (E-F)	0	-0,04	0	0	-0,04	0,96
9		As 4 (E-F)	0,03	0,05	0	0,01	0,09	1,09
10	26/09/2020	As 1 (I-J)	0,03	0	0	0	0,03	1,03
11		As I (1-2)	0,03	0	0	0	0,03	1,03
12		As 2 (J-K)	0,03	0,02	0	0	0,05	1,05

Pekerjaan Pemasangan Dinding Bata Merah

No	Tanggal	As Dinding	Rating				Total Rating	Performance Factor
			Skill	Effort	Condition	Consistency		
1	12/10/2020	Y4-Y5	0,03	0,02	0	0,01	0,06	1,06
2		Y4-Y5	0,03	0,02	0	0,01	0,06	1,06
3		Y4-Y5	0	0	0	0	0	1
4	13/10/2020	Y4-Y5	0	0,02	0	0	0,02	1,02
5		Y4-Y5	0,06	0,05	0	0,01	0,12	1,12
6		Y4-Y5	0,03	0,02	0	0	0,05	1,05
7		Y4-Y5	0,03	0,02	0	0	0,05	1,05
8	14/10/2020	Y4-Y5	0,03	0,05	0,02	0,01	0,11	1,11
9		Y4-Y5	0,03	0	0,02	0	0,05	1,05
10		Y4-Y5	0,03	0	0,02	0	0,05	1,05
11		Y4-Y5	0,03	0	0,02	0	0,05	1,05
12	15/10/2020	Y4-Y5	0	0,02	0,02	0	0,04	1,04
13		Y4-Y5	0	0	0,02	0	0,02	1,02
14		Y4-Y5	0,06	0,05	0,02	0,01	0,14	1,14
15		Y4-Y5	0	0	0,02	0	0,02	1,02
16	19/10/2020	Y4-Y5	0,03	0,02	0	0,01	0,06	1,06
17		Y4-Y5	0,03	0,02	0	0,01	0,06	1,06
18	20/10/2020	Y4-Y5	0	-0,05	0	0	-0,05	0,95
19		Y4-Y5	0	-0,05	0	0	-0,05	0,95
20		Y4-Y5	0,03	0,02	0	0,01	0,06	1,06

Pekerjaan Plesteran Dinding Bata Merah

No	Tanggal	As Dinding	Rating				Total Rating	Performance Factor
			Skill	Effort	Condition	Consistency		
1	13/10/2020	Y3-Y4	0	-0,04	0	0	-0,04	0,96
2		Y3-Y4	0,06	0,02	0	0,01	0,09	1,09
3		Y3-Y4	0,03	0,05	0	0,01	0,09	1,09
4	14/10/2020	Y4-Y5	-0,04	0	0,02	0	-0,02	0,98
5		Y4-Y5	0,06	0,02	0,02	0,01	0,11	1,11
6	16/10/2020	Y4-Y5	0,03	0,02	0	0	0,05	1,05
7		Y4-Y5	0,03	0,02	0	0	0,05	1,05
8		Y5-Y6	0,03	0,02	0	0,01	0,06	1,06
9		Y5-Y6	0,03	0,02	0	0	0,05	1,05
10	17/10/2020	Y5-Y6	0	0	0,02	0,01	0,03	1,03
11		Y5-Y6	0,03	0,02	0,02	0,01	0,08	1,08
12		Y5-Y6	0,06	0,05	0,02	0,01	0,14	1,14

Pekerjaan Acian Dinding Bata Merah

No	Tanggal	As Dinding	Rating				Total Rating	Performance Factor
			Skill	Effort	Condition	Consistency		
1	15/10/2020	Y4-Y5	0	0	0,02	0	0,02	1,02
2		Y4-Y5	0	0	0,02	0	0,02	1,02
3		Y4-Y5	0,03	0,02	0,02	0,01	0,08	1,08
4	16/10/2020	Y4-Y5	0,03	0,05	0	0	0,08	1,08
5		Y4-Y5	0	0,02	0	0	0,02	1,02
6		Y4-Y5	0,03	0,05	0	0,01	0,09	1,09
7		Y4-Y5	0,03	0,05	0	0	0,08	1,08
8	17/10/2020	Y4-Y5	0,06	0,02	0,02	0,01	0,11	1,11
9		Y4-Y5	0,06	0,02	0,02	0,01	0,11	1,11
10	20/10/2020	Y4-Y5	0	0	0	0	0	1
11		Y4-Y5	0,03	0	0	0	0,03	1,03
12		Y4-Y5	0,03	0,05	0	0	0,08	1,08

LAMPIRAN 5
WAKTU NORMAL

Pekerjaan Pemasangan Dinding Bata Ringan

No	As Dinding	Total Durasi	Konversi	Perfomance Factor	Konversi	Waktu Normal
1	As 1 (E-F)	03:08:05	3,1347	1,04	3,2601	03:15:36
2	As 3 (E-F)	04:14:34	4,2428	1,07	4,5398	04:32:23
3	As E (3-4)	05:22:19	5,3719	1,03	5,5331	05:31:59
4	As 3 (F-G)	03:50:07	3,8353	1,04	3,9887	03:59:19
5	As C (3-4)	03:30:25	3,5069	1,1	3,8576	03:51:28
6	As 4 (C-D)	03:12:42	3,2117	1,1	3,5328	03:31:58
7	As C (2-3)	00:20:38	0,3439	1,11	0,3817	00:22:54
8	As 2 (A-B)	00:43:07	0,7186	1,09	0,7833	00:47:00
9	As 2 (B-C)	01:04:33	1,0758	1,05	1,1296	01:07:47
10	As 2 (Aa-A)	00:20:55	0,3486	1,12	0,3904	00:23:26
11	As E (1-2)	05:22:37	5,3769	1,05	5,6458	05:38:45
12	As 1 (E-F)	03:43:17	3,7214	1,07	3,9819	03:58:55
13	As 1 (F-G)	03:48:42	3,8117	1,05	4,0023	04:00:08
14	As 4 (G-H)	03:09:31	3,1586	1,02	3,2218	03:13:18
15	As 4 (H-I)	03:19:29	3,3247	1,03	3,4245	03:25:28
16	As 2 (G-H)	04:15:41	4,2614	0,97	4,1335	04:08:01
17	As 2 (H-I)	03:51:14	3,8539	1,05	4,0466	04:02:48
18	As I (1-2)	05:34:09	5,5692	1,04	5,7919	05:47:31
19	As 3 (J-K)	03:32:52	3,5478	1,05	3,7252	03:43:31
20	As K (2-3)	00:19:48	0,3300	1,14	0,3762	00:22:34

Pekerjaan Plesteran Dinding Bata Ringan

No	As Dinding	Total Durasi	Konversi	Perfomance Factor	Konversi	Waktu Normal
1	As 2 (E-F)	02:31:21	2,5225	1,09	2,7495	02:44:58
2	As 2 (H-I)	03:09:48	3,1633	1,03	3,2582	03:15:30
3	As 1 (F-G)	01:54:41	1,9114	1,14	2,1790	02:10:44
4	As 2 (F-G)	03:15:05	3,2514	0,95	3,0888	03:05:20
5	As 3 (F-G)	02:43:08	2,7189	1,05	2,8548	02:51:17
6	As J (3-4)	03:59:13	3,9869	1,01	4,0268	04:01:37
7	As 4 (E-F)	02:14:25	2,2403	1,11	2,4867	02:29:12
8	As E (3-4)	04:11:34	4,1928	1,02	4,2766	04:16:36
9	As E (1-2)	04:17:07	4,2853	0,96	4,1139	04:06:50
10	As 3 (E-F)	03:22:28	3,3744	1,02	3,4419	03:26:31
11	As 1 (E-F)	02:21:09	2,3525	1,03	2,4231	02:25:23
12	As 1 (F-G)	02:14:36	2,2433	1,05	2,3555	02:21:20

Pekerjaan Acian Dinding Bata Ringan

No	As Dinding	Total Durasi	Konversi	Perfomance Factor	Konversi	Waktu Normal
1	As 2 (E-F)	03:02:39	3,0442	0,98	2,9833	02:59:00
2	As K (2-3)	00:06:49	0,1136	1,16	0,1318	00:07:54
3	As 2 (J-K)	00:57:58	0,9661	1,11	1,0724	01:04:21
4	As 1 (Aa-A)	00:33:49	0,5636	1,05	0,5918	00:35:30
5	As 1 (A-B)	01:12:53	1,2147	1,04	1,2633	01:15:48
6	As 2 (A-B)	00:15:42	0,2617	1,14	0,2983	00:17:54
7	As 2 (E-F)	01:29:28	1,4911	1,04	1,5508	01:33:03
8	As 3 (E-F)	01:50:01	1,8336	0,96	1,7603	01:45:37
9	As 4 (E-F)	01:07:14	1,1206	1,09	1,2214	01:13:17
10	As 1 (I-J)	00:50:19	0,8386	1,03	0,8638	00:51:50
11	As I (1-2)	02:10:41	2,1781	1,03	2,2434	02:14:36
12	As 2 (J-K)	01:02:49	1,0469	1,05	1,0993	01:05:57

Pekerjaan Pemasangan Dinding Bata Merah

No	As Dinding	Total Durasi	Konversi	Perfomance Factor	Konversi	Waktu Normal
1	Y4-Y5	00:21:37	0,36028	1,06	0,3819	00:22:55
2	Y4-Y5	00:21:19	0,35528	1,06	0,3766	00:22:36
3	Y4-Y5	00:41:21	0,68917	1	0,6892	00:41:21
4	Y4-Y5	00:47:26	0,79056	1,02	0,8064	00:48:23
5	Y4-Y5	00:08:36	0,14333	1,12	0,1605	00:09:38
6	Y4-Y5	00:21:25	0,35694	1,05	0,3748	00:22:29
7	Y4-Y5	00:25:48	0,43000	1,05	0,4515	00:27:05
8	Y4-Y5	00:15:33	0,25917	1,11	0,2877	00:17:16
9	Y4-Y5	00:54:27	0,90750	1,05	0,9529	00:57:10
10	Y4-Y5	00:30:48	0,51333	1,05	0,5390	00:32:20
11	Y4-Y5	00:22:11	0,36972	1,05	0,3882	00:23:18
12	Y4-Y5	00:29:51	0,49750	1,04	0,5174	00:31:03
13	Y4-Y5	00:36:08	0,60222	1,02	0,6143	00:36:51
14	Y4-Y5	00:09:33	0,15917	1,14	0,1814	00:10:53
15	Y4-Y5	00:36:58	0,61611	1,02	0,6284	00:37:42
16	Y4-Y5	00:36:29	0,60806	1,06	0,6445	00:38:40
17	Y4-Y5	00:27:33	0,45917	1,06	0,4867	00:29:12
18	Y4-Y5	01:09:47	1,16306	0,95	1,1049	01:06:18
19	Y4-Y5	00:34:28	0,57444	0,95	0,5457	00:32:45
20	Y4-Y5	00:33:21	0,55583	1,06	0,5892	00:35:21

Pekerjaan Plesteran Dinding Bata Merah

No	As Dinding	Total Durasi	Konversi	Perfomance Factor	Konversi	Waktu Normal
1	Y3-Y4	03:58:29	3,9747	0,96	3,8157	03:48:57
2	Y3-Y4	01:20:33	1,3425	1,09	1,4633	01:27:48
3	Y3-Y4	01:27:23	1,4564	1,09	1,5875	01:35:15
4	Y4-Y5	01:26:11	1,4364	0,98	1,4077	01:24:28
5	Y4-Y5	01:31:28	1,5244	1,11	1,6921	01:41:32
6	Y4-Y5	03:07:01	3,1169	1,05	3,2728	03:16:22
7	Y4-Y5	01:44:09	1,7358	1,05	1,8226	01:49:21
8	Y5-Y6	02:37:57	2,6325	1,06	2,7905	02:47:26
9	Y5-Y6	01:42:36	1,7100	1,05	1,7955	01:47:44
10	Y5-Y6	01:35:42	1,5950	1,03	1,6429	01:38:34
11	Y5-Y6	01:10:21	1,1725	1,08	1,2663	01:15:59
12	Y5-Y6	00:54:31	0,9086	1,14	1,0358	01:02:09

Pekerjaan Acian Dinding Bata Merah

No	As Dinding	Total Durasi	Konversi	Perfomance Factor	Konversi	Waktu Normal
1	Y4-Y5	01:41:12	1,6867	1,02	1,7204	01:43:13
2	Y4-Y5	00:45:39	0,7608	1,02	0,7761	00:46:34
3	Y4-Y5	00:26:25	0,4403	1,08	0,4755	00:28:32
4	Y4-Y5	00:54:11	0,9031	1,08	0,9753	00:58:31
5	Y4-Y5	03:21:31	3,3586	1,02	3,4258	03:25:33
7	Y4-Y5	00:15:37	0,2603	1,09	0,2837	00:17:01
8	Y4-Y5	00:19:11	0,3197	1,08	0,3453	00:20:43
9	Y4-Y5	00:32:28	0,5411	1,11	0,6006	00:36:02
10	Y4-Y5	00:07:13	0,1203	1,11	0,1335	00:08:01
11	Y4-Y5	01:59:22	1,9894	1	1,9894	01:59:22
12	Y4-Y5	00:48:17	0,8047	1,03	0,8289	00:49:44
13	Y4-Y5	00:50:49	0,8469	1,08	0,9147	00:54:53

LAMPIRAN 6

WAKTU BAKU

Pekerjaan Pemasangan Dinding Bata Ringan

No	As Dinding	Waktu Normal	Konversi	Allowance (%)	Konversi	Waktu Baku
1	As 1 (E-F)	03:15:36	3,2601	23	4,2339	04:14:02
2	As 3 (E-F)	04:32:23	4,5398	23	5,8958	05:53:45
3	As E (3-4)	05:31:59	5,5331	23	7,1858	07:11:09
4	As 3 (F-G)	03:59:19	3,9887	23	5,1801	05:10:48
5	As C (3-4)	03:51:28	3,8576	23	5,0099	05:00:36
6	As 4 (C-D)	03:31:58	3,5328	23	4,5881	04:35:17
7	As C (2-3)	00:22:54	0,3817	23	0,4957	00:29:45
8	As 2 (A-B)	00:47:00	0,7833	23	1,0173	01:01:02
9	As 2 (B-C)	01:07:47	1,1296	23	1,4670	01:28:01
10	As 2 (Aa-A)	00:23:26	0,3904	23	0,5071	00:30:25
11	As E (1-2)	05:38:45	5,6458	23	7,3322	07:19:56
12	As 1 (E-F)	03:58:55	3,9819	23	5,1713	05:10:17
13	As 1 (F-G)	04:00:08	4,0023	23	5,1977	05:11:52
14	As 4 (G-H)	03:13:18	3,2218	23	4,1841	04:11:03
15	As 4 (H-I)	03:25:28	3,4245	23	4,4474	04:26:50
16	As 2 (G-H)	04:08:01	4,1335	23	5,3682	05:22:06
17	As 2 (H-I)	04:02:48	4,0466	23	5,2553	05:15:19
18	As I (1-2)	05:47:31	5,7919	23	7,5220	07:31:19
19	As 3 (J-K)	03:43:31	3,7252	23	4,8379	04:50:16
20	As K (2-3)	00:22:34	0,3762	23	0,4886	00:29:19

Pekerjaan Plesteran Dinding Bata Ringan

No	As Dinding	Waktu Normal	Konversi	Allowance (%)	Konversi	Waktu Baku
1	As 2 (E-F)	02:59:00	2,7495	23	3,5708	03:34:15
2	As 2 (H-I)	00:07:54	3,2582	23	4,2315	04:13:53
3	As 1 (F-G)	01:04:21	2,1790	23	2,8298	02:49:47
4	As 2 (F-G)	00:35:30	3,0888	23	4,0115	04:00:41
5	As 3 (F-G)	01:15:48	2,8548	23	3,7076	03:42:27
6	As J (3-4)	00:17:54	4,0268	23	5,2296	05:13:47
7	As 4 (E-F)	01:33:03	2,4867	23	3,2295	03:13:46
8	As E (3-4)	01:45:37	4,2766	23	5,5541	05:33:15
9	As E (1-2)	01:13:17	4,1139	23	5,3427	05:20:34
10	As 3 (E-F)	00:51:50	3,4419	23	4,4700	04:28:12
11	As 1 (E-F)	02:14:36	2,4231	23	3,1469	03:08:49
12	As 1 (F-G)	01:05:57	2,3555	23	3,0591	03:03:33

Pekerjaan Acian Dinding Bata Ringan

No	As Dinding	Waktu Normal	Konversi	Allowance (%)	Konversi	Waktu Baku
1	As 2 (E-F)	02:59:00	2,9833	23	3,8744	03:52:28
2	As K (2-3)	00:07:54	0,1318	23	0,1712	00:10:16
3	As 2 (J-K)	01:04:21	1,0724	23	1,3927	01:23:34
4	As 1 (Aa-A)	00:35:30	0,5918	23	0,7686	00:46:07
5	As 1 (A-B)	01:15:48	1,2633	23	1,6407	01:38:26
6	As 2 (A-B)	00:17:54	0,2983	23	0,3874	00:23:15
7	As 2 (E-F)	01:33:03	1,5508	23	2,0140	02:00:50
8	As 3 (E-F)	01:45:37	1,7603	23	2,2861	02:17:10
9	As 4 (E-F)	01:13:17	1,2214	23	1,5862	01:35:10
10	As 1 (I-J)	00:51:50	0,8638	23	1,1218	01:07:18
11	As I (1-2)	02:14:36	2,2434	23	2,9135	02:54:49
12	As 2 (J-K)	01:05:57	1,0993	23	1,4277	01:25:40

Pekerjaan Pemasangan Dinding Bata Merah

No	As Dinding	Waktu Normal	Konversi	Allowance	Konversi	Waktu Baku
1	Y4-Y5	00:22:55	0,3819	23	0,4960	00:29:45
2	Y4-Y5	00:22:36	0,3766	23	0,4891	00:29:21
3	Y4-Y5	00:41:21	0,6892	23	0,8950	00:53:42
4	Y4-Y5	00:48:23	0,8064	23	1,0472	01:02:50
5	Y4-Y5	00:09:38	0,1605	23	0,2085	00:12:31
6	Y4-Y5	00:22:29	0,3748	23	0,4867	00:29:12
7	Y4-Y5	00:27:05	0,4515	23	0,5864	00:35:11
8	Y4-Y5	00:17:16	0,2877	23	0,3736	00:22:25
9	Y4-Y5	00:57:10	0,9529	23	1,2375	01:14:15
10	Y4-Y5	00:32:20	0,5390	23	0,7000	00:42:00
11	Y4-Y5	00:23:18	0,3882	23	0,5042	00:30:15
12	Y4-Y5	00:31:03	0,5174	23	0,6719	00:40:19
13	Y4-Y5	00:36:51	0,6143	23	0,7977	00:47:52
14	Y4-Y5	00:10:53	0,1814	23	0,2356	00:14:08
15	Y4-Y5	00:37:42	0,6284	23	0,8161	00:48:58
16	Y4-Y5	00:38:40	0,6445	23	0,8371	00:50:13
17	Y4-Y5	00:29:12	0,4867	23	0,6321	00:37:56
18	Y4-Y5	01:06:18	1,1049	23	1,4349	01:26:06
19	Y4-Y5	00:32:45	0,5457	23	0,7087	00:42:31
20	Y4-Y5	00:35:21	0,5892	23	0,7652	00:45:55

Pekerjaan Plesteran Dinding Bata Merah

No	As Dinding	Waktu Normal	Konversi	Allowance	Konversi	Waktu Baku
1	Y3-Y4	03:48:57	3,8157	23	4,9555	04:57:20
2	Y3-Y4	01:27:48	1,4633	23	1,9004	01:54:02
3	Y3-Y4	01:35:15	1,5875	23	2,0616	02:03:42
4	Y4-Y5	01:24:28	1,4077	23	1,8281	01:49:41
5	Y4-Y5	01:41:32	1,6921	23	2,1976	02:11:51
6	Y4-Y5	03:16:22	3,2728	23	4,2504	04:15:01
7	Y4-Y5	01:49:21	1,8226	23	2,3670	02:22:01
8	Y5-Y6	02:47:26	2,7905	23	3,6240	03:37:26
9	Y5-Y6	01:47:44	1,7955	23	2,3318	02:19:55
10	Y5-Y6	01:38:34	1,6429	23	2,1336	02:08:01
11	Y5-Y6	01:15:59	1,2663	23	1,6445	01:38:40
12	Y5-Y6	01:02:09	1,0358	23	1,3452	01:20:43

Pekerjaan Acian Dinding Bata Merah

No	As Dinding	Waktu Normal	Konversi	Allowance	Konversi	Waktu Baku
1	Y4-Y5	01:43:13	1,7204	23	2,2343	02:14:03
2	Y4-Y5	00:46:34	0,7761	23	1,0079	01:00:28
3	Y4-Y5	00:28:32	0,4755	23	0,6175	00:37:03
4	Y4-Y5	00:58:31	0,9753	23	1,2666	01:16:00
5	Y4-Y5	03:25:33	3,4258	23	4,4491	04:26:57
7	Y4-Y5	00:17:01	0,2837	23	0,3684	00:22:06
8	Y4-Y5	00:20:43	0,3453	23	0,4484	00:26:54
9	Y4-Y5	00:36:02	0,6006	23	0,7800	00:46:48
10	Y4-Y5	00:08:01	0,1335	23	0,1734	00:10:24
11	Y4-Y5	01:59:22	1,9894	23	2,5837	02:35:01
12	Y4-Y5	00:49:44	0,8289	23	1,0764	01:04:35
13	Y4-Y5	00:54:53	0,9147	23	1,1879	01:11:17

LAMPIRAN 7

PRODUKTIVITAS PEKERJA

Pekerjaan Pemasangan Dinding Bata Ringan

No	As Dinding	Luas Dinding (m ²)	Jumlah Pekerja	Waktu	Konversi	Produktivitas (m ² /jam)
1	As 1 (E-F)	14,376	1	04:14:02	4,2339	3,3954
2	As 3 (E-F)	20,172	1	05:53:45	5,8958	3,4214
3	As E (3-4)	24,12	1	07:11:09	7,1858	3,3566
4	As 3 (F-G)	17,7608	1	05:10:48	5,1801	3,4286
5	As C (3-4)	16,92	1	05:00:36	5,0099	3,3773
6	As 4 (C-D)	15,54	1	04:35:17	4,5881	3,3870
7	As C (2-3)	1,815	1	00:29:45	0,4957	3,6612
8	As 2 (A-B)	3,765	1	01:01:02	1,0173	3,7011
9	As 2 (B-C)	5,415	1	01:28:01	1,4670	3,6911
10	As 2 (Aa-A)	2,085	1	00:30:25	0,5071	4,1119
11	As E (1-2)	25,16	1	07:19:56	7,3322	3,4314
12	As 1 (E-F)	17,836	1	05:10:17	5,1713	3,4490
13	As 1 (F-G)	17,836	1	05:11:52	5,1977	3,4315
14	As 4 (G-H)	15,036	1	04:11:03	4,1841	3,5936
15	As 4 (H-I)	15,036	1	04:26:50	4,4474	3,3809
16	As 2 (G-H)	18,4208	1	05:22:06	5,3682	3,4314
17	As 2 (H-I)	18,4208	1	05:15:19	5,2553	3,5052
18	As I (1-2)	25,16	1	07:31:19	7,5220	3,3449
19	As 3 (J-K)	16,576	1	04:50:16	4,8379	3,4263
20	As K (2-3)	1,815	1	00:29:19	0,4886	3,7149
					Mean	3,5120

Pekerjaan Plesteran Dinding Bata Ringan

No	As Dinding	Luas Dinding (m ²)	Jumlah Pekerja	Waktu	Konversi	Produktivitas (m ² /jam)
1	As 2 (E-F)	17,7608	1	03:34:15	3,5708	4,9739
2	As 2 (H-I)	20,172	1	04:13:53	4,2315	4,7671
3	As 1 (F-G)	14,376	1	02:49:47	2,8298	5,0801
4	As 2 (F-G)	17,7608	1	04:00:41	4,0115	4,4275
5	As 3 (F-G)	17,7608	1	03:42:27	3,7076	4,7904
6	As J (3-4)	24,17575	1	05:13:47	5,2296	4,6228
7	As 4 (E-F)	15,036	1	03:13:46	3,2295	4,6558
8	As E (3-4)	25,16	1	05:33:15	5,5541	4,5300
9	As E (1-2)	25,16	1	05:20:34	5,3427	4,7092
10	As 3 (E-F)	20,832	1	04:28:12	4,4700	4,6604
11	As 1 (E-F)	15,036	1	03:08:49	3,1469	4,7781
12	As 1 (F-G)	15,036	1	03:03:33	3,0591	4,9152
					Mean	4,7426

Pekerjaan Acian Dinding Bata Ringan

No	As Dinding	Luas Dinding (m ²)	Jumlah Pekerja	Waktu	Konversi	Produktivitas (m ² /jam)
1	As 2 (E-F)	35,5216	1	03:52:28	3,8744	9,1683
2	As K (2-3)	1,695	1	00:10:16	0,1712	9,9033
3	As 2 (J-K)	13,116	1	01:23:34	1,3927	9,4176
4	As 1 (Aa-A)	7,35	1	00:46:07	0,7686	9,5633
5	As 1 (A-B)	14,7	1	01:38:26	1,6407	8,9598
6	As 2 (A-B)	3,765	1	00:23:15	0,3874	9,7186
7	As 2 (E-F)	18,4208	1	02:00:50	2,0140	9,1465
8	As 3 (E-F)	20,832	1	02:17:10	2,2861	9,1126
9	As 4 (E-F)	15,036	1	01:35:10	1,5862	9,4790
10	As 1 (I-J)	10,5	1	01:07:18	1,1218	9,3601
11	As I (1-2)	25,16	1	02:54:49	2,9135	8,6357
12	As 2 (J-K)	13,776	1	01:25:40	1,4277	9,6494
					Mean	9,3429

Pekerjaan Pemasangan Dinding Bata Merah

No	As Dinding	Volume Dinding (m ²)	Jumlah Pekerja	Waktu	Konversi	Produktivitas (m ² /jam)
1	Y4-Y5	1,372	1	00:29:45	0,4960	2,7663
2	Y4-Y5	1,38	1	00:29:21	0,4891	2,8216
3	Y4-Y5	1,95	1	00:53:42	0,8950	2,1787
4	Y4-Y5	2,4	1	01:02:50	1,0472	2,2918
5	Y4-Y5	0,64	1	00:12:31	0,2085	3,0698
6	Y4-Y5	1,288	1	00:29:12	0,4867	2,6462
7	Y4-Y5	1,56	1	00:35:11	0,5864	2,6605
8	Y4-Y5	1,024	1	00:22:25	0,3736	2,7409
9	Y4-Y5	2,64	1	01:14:15	1,2375	2,1333
10	Y4-Y5	1,848	1	00:42:00	0,7000	2,6400
11	Y4-Y5	1,288	1	00:30:15	0,5042	2,5547
12	Y4-Y5	1,68	1	00:40:19	0,6719	2,5002
13	Y4-Y5	1,716	1	00:47:52	0,7977	2,1511
14	Y4-Y5	0,72	1	00:14:08	0,2356	3,0554
15	Y4-Y5	1,736	1	00:48:58	0,8161	2,1271
16	Y4-Y5	2,64	1	00:50:13	0,8371	3,1539
17	Y4-Y5	1,848	1	00:37:56	0,6321	2,9236
18	Y4-Y5	3,36	1	01:26:06	1,4349	2,3416
19	Y4-Y5	1,728	1	00:42:31	0,7087	2,4382
20	Y4-Y5	2,376	1	00:45:55	0,7652	3,1052
					Mean	2,6150

Pekerjaan Plesteran Dinding Bata Merah

No	As Dinding	Volume Dinding (m ²)	Jumlah Pekerja	Waktu	Konversi	Produktivitas (m ² /jam)
1	Y3-Y4	18	1	04:57:20	4,9555	3,6323
2	Y3-Y4	7,2	1	01:54:02	1,9004	3,7886
3	Y3-Y4	7,2	1	02:03:42	2,0616	3,4924
4	Y4-Y5	5,6	1	01:49:41	1,8281	3,0632
5	Y4-Y5	7,5	1	02:11:51	2,1976	3,4129
6	Y4-Y5	14,4	1	04:15:01	4,2504	3,3879
7	Y4-Y5	8	1	02:22:01	2,3670	3,3797
8	Y5-Y6	12,8	1	03:37:26	3,6240	3,5320
9	Y5-Y6	8	1	02:19:55	2,3318	3,4308
10	Y5-Y6	6,4	1	02:08:01	2,1336	2,9997
11	Y5-Y6	6	1	01:38:40	1,6445	3,6484
12	Y5-Y6	5,2	1	01:20:43	1,3452	3,8655
					Mean	3,4695

Pekerjaan Acian Dinding Bata Merah

No	As Dinding	Volume Dinding (m ²)	Jumlah Pekerja	Waktu	Konversi	Produktivitas (m ² /jam)
1	Y4-Y5	14	1	02:14:03	2,2343	6,2660
2	Y4-Y5	6,2	1	01:00:28	1,0079	6,1517
3	Y4-Y5	4	1	00:37:03	0,6175	6,4774
4	Y4-Y5	8	1	01:16:00	1,2666	6,3160
5	Y4-Y5	28	1	04:26:57	4,4491	6,2935
7	Y4-Y5	2,79	1	00:22:06	0,3684	7,5724
8	Y4-Y5	2,97	1	00:26:54	0,4484	6,6229
9	Y4-Y5	5,4	1	00:46:48	0,7800	6,9227
10	Y4-Y5	1,17	1	00:10:24	0,1734	6,7479
11	Y4-Y5	16	1	02:35:01	2,5837	6,1927
12	Y4-Y5	6,7	1	01:04:35	1,0764	6,2242
13	Y4-Y5	7,6	1	01:11:17	1,1879	6,3977
					Mean	6,5154

LAMPIRAN 8

KOEFSISIEN TENAGA KERJA

Pekerjaan Pemasangan Dinding Bata Ringan

No	As Dinding	Luas Dinding (m ²)	Jumlah Tukang	Waktu	Konversi	Koefisien Tukang
1	As 1 (E-F)	14,376	1	04:14:02	4,2339	0,04207
2	As 3 (E-F)	20,172	1	05:53:45	5,8958	0,04175
3	As E (3-4)	24,12	1	07:11:09	7,1858	0,04256
4	As 3 (F-G)	17,7608	1	05:10:48	5,1801	0,04167
5	As C (3-4)	16,92	1	05:00:36	5,0099	0,04230
6	As 4 (C-D)	15,54	1	04:35:17	4,5881	0,04218
7	As C (2-3)	1,815	1	00:29:45	0,4957	0,03902
8	As 2 (A-B)	3,765	1	01:01:02	1,0173	0,03860
9	As 2 (B-C)	5,415	1	01:28:01	1,4670	0,03870
10	As 2 (Aa-A)	2,085	1	00:30:25	0,5071	0,03474
11	As E (1-2)	25,16	1	07:19:56	7,3322	0,04163
12	As 1 (E-F)	17,836	1	05:10:17	5,1713	0,04142
13	As 1 (F-G)	17,836	1	05:11:52	5,1977	0,04163
14	As 4 (G-H)	15,036	1	04:11:03	4,1841	0,03975
15	As 4 (H-I)	15,036	1	04:26:50	4,4474	0,04225
16	As 2 (G-H)	18,4208	1	05:22:06	5,3682	0,04163
17	As 2 (H-I)	18,4208	1	05:15:19	5,2553	0,04076
18	As I (1-2)	25,16	1	07:31:19	7,5220	0,04271
19	As 3 (J-K)	16,576	1	04:50:16	4,8379	0,04169
20	As K (2-3)	1,815	1	00:29:19	0,4886	0,03846

	Koefisien Mandor	Koefisien Kepala Tukang	Koefisien Tukang	Koefisien Pekerja
Perwal No 79	0,003	0,13	1,3	0,671
Hasil Pengamatan	0,00010	0,00421	0,04207	0,02172
	0,00010	0,00418	0,04175	0,02155
	0,00010	0,00426	0,04256	0,02197
	0,00010	0,00417	0,04167	0,02151
	0,00010	0,00423	0,04230	0,02183
	0,00010	0,00422	0,04218	0,02177
	0,00009	0,00390	0,03902	0,02014
	0,00009	0,00386	0,03860	0,01992
	0,00009	0,00387	0,03870	0,01998
	0,00008	0,00347	0,03474	0,01793
	0,00010	0,00416	0,04163	0,02149
	0,00010	0,00414	0,04142	0,02138
	0,00010	0,00416	0,04163	0,02149
	0,00009	0,00398	0,03975	0,02052
	0,00010	0,00423	0,04225	0,02181
	0,00010	0,00416	0,04163	0,02149
	0,00009	0,00408	0,04076	0,02104
	0,00010	0,00427	0,04271	0,02204
	0,00010	0,00417	0,04169	0,02152
	0,00009	0,00385	0,03846	0,01985
Mean	0,00009	0,00408	0,04078	0,02105

Pekerjaan Plesteran Dinding Bata Ringan

No	As Dinding	Volume Dinding (m ²)	Jumlah Tukang	Waktu	Konversi	Koefisien Tukang
1	As 2 (E-F)	17,7608	1	03:34:15	3,5708	0,0287
2	As 2 (H-I)	20,172	1	04:13:53	4,2315	0,0300
3	As 1 (F-G)	14,376	1	02:49:47	2,8298	0,0281
4	As 2 (F-G)	17,7608	1	04:00:41	4,0115	0,0323
5	As 3 (F-G)	17,7608	1	03:42:27	3,7076	0,0298
6	As J (3-4)	24,17575	1	05:13:47	5,2296	0,0309
7	As 4 (E-F)	15,036	1	03:13:46	3,2295	0,0307
8	As E (3-4)	25,16	1	05:33:15	5,5541	0,0315
9	As E (1-2)	25,16	1	05:20:34	5,3427	0,0303
10	As 3 (E-F)	20,832	1	04:28:12	4,4700	0,0307
11	As 1 (E-F)	15,036	1	03:08:49	3,1469	0,0299
12	As 1 (F-G)	15,036	1	03:03:33	3,0591	0,0291

	Koefisien Mandor	Koefisien Kepala Tukang	Koefisien Tukang	Koefisien Pekerja
Perwal No 79	0,015	0,015	0,15	0,3
Hasil Pengamatan	0,00287	0,00287	0,02872	0,05744
	0,00300	0,00300	0,02997	0,05993
	0,00281	0,00281	0,02812	0,05624
	0,00323	0,00323	0,03227	0,06453
	0,00298	0,00298	0,02982	0,05964
	0,00309	0,00309	0,03090	0,06180
	0,00307	0,00307	0,03068	0,06137
	0,00315	0,00315	0,03154	0,06307
	0,00303	0,00303	0,03034	0,06067
	0,00307	0,00307	0,03065	0,06131
	0,00299	0,00299	0,02990	0,05980
	0,00291	0,00291	0,02906	0,05813
Mean	0,00302	0,00302	0,03016	0,06033

Pekerjaan Acian Dinding Bata Ringan

No	As Dinding	Volume Dinding (m ²)	Jumlah Tukang	Waktu	Konversi	Koefisien Tukang
1	As 2 (E-F)	35,5216	1	03:52:28	3,8744	0,0156
2	As K (2-3)	1,695	1	00:10:16	0,1712	0,0144
3	As 2 (J-K)	13,116	1	01:23:34	1,3927	0,0152
4	As 1 (Aa-A)	7,35	1	00:46:07	0,7686	0,0149
5	As 1 (A-B)	14,7	1	01:38:26	1,6407	0,0159
6	As 2 (A-B)	3,765	1	00:23:15	0,3874	0,0147
7	As 2 (E-F)	18,4208	1	02:00:50	2,0140	0,0156
8	As 3 (E-F)	20,832	1	02:17:10	2,2861	0,0157
9	As 4 (E-F)	15,036	1	01:35:10	1,5862	0,0151
10	As 1 (I-J)	10,5	1	01:07:18	1,1218	0,0153
11	As I (1-2)	25,16	1	02:54:49	2,9135	0,0165
12	As 2 (J-K)	13,776	1	01:25:40	1,4277	0,0148

	Koefisien Mandor	Koefisien Kepala Tukang	Koefisien Tukang	Koefisien Pekerja
Perwal No 79	0,01	0,01	0,1	0,2
Hasil Pengamatan	0,0016	0,0016	0,0156	0,0312
	0,0014	0,0014	0,0144	0,0289
	0,0015	0,0015	0,0152	0,0303
	0,0015	0,0015	0,0149	0,0299
	0,0016	0,0016	0,0159	0,0319
	0,0015	0,0015	0,0147	0,0294
	0,0016	0,0016	0,0156	0,0312
	0,0016	0,0016	0,0157	0,0314
	0,0015	0,0015	0,0151	0,0301
	0,0015	0,0015	0,0153	0,0305
	0,0017	0,0017	0,0165	0,0331
	0,0015	0,0015	0,0148	0,0296
<i>Mean</i>	0,0015	0,0015	0,0153	0,0306

Pekerjaan Pemasangan Dinding Bata Merah

No	As Dinding	Volume Dinding (m ²)	Jumlah Tukang	Waktu	Konversi	Koefisien Tukang
1	Y4-Y5	1,372	1	00:29:45	0,4960	0,0516
2	Y4-Y5	1,38	1	00:29:21	0,4891	0,0506
3	Y4-Y5	1,95	1	00:53:42	0,8950	0,0656
4	Y4-Y5	2,4	1	01:02:50	1,0472	0,0623
5	Y4-Y5	0,64	1	00:12:31	0,2085	0,0465
6	Y4-Y5	1,288	1	00:29:12	0,4867	0,0540
7	Y4-Y5	1,56	1	00:35:11	0,5864	0,0537
8	Y4-Y5	1,024	1	00:22:25	0,3736	0,0521
9	Y4-Y5	2,64	1	01:14:15	1,2375	0,0670
10	Y4-Y5	1,848	1	00:42:00	0,7000	0,0541
11	Y4-Y5	1,288	1	00:30:15	0,5042	0,0559
12	Y4-Y5	1,68	1	00:40:19	0,6719	0,0571
13	Y4-Y5	1,716	1	00:47:52	0,7977	0,0664
14	Y4-Y5	0,72	1	00:14:08	0,2356	0,0468
15	Y4-Y5	1,736	1	00:48:58	0,8161	0,0672
16	Y4-Y5	2,64	1	00:50:13	0,8371	0,0453
17	Y4-Y5	1,848	1	00:37:56	0,6321	0,0489
18	Y4-Y5	3,36	1	01:26:06	1,4349	0,0610
19	Y4-Y5	1,728	1	00:42:31	0,7087	0,0586
20	Y4-Y5	2,376	1	00:45:55	0,7652	0,0460

	Koefisien Mandor	Koefisien Kepala Tukang	Koefisien Tukang	Koefisien Pekerja
Perwal No 79	0,015	0,01	0,1	0,3
Hasil Pengamatan	0,0077	0,0052	0,0516	0,1549
	0,0076	0,0051	0,0506	0,1519
	0,0098	0,0066	0,0656	0,1967
	0,0094	0,0062	0,0623	0,1870
	0,0070	0,0047	0,0465	0,1396
	0,0081	0,0054	0,0540	0,1620
	0,0081	0,0054	0,0537	0,1611
	0,0078	0,0052	0,0521	0,1564
	0,0100	0,0067	0,0670	0,2009
	0,0081	0,0054	0,0541	0,1623
	0,0084	0,0056	0,0559	0,1678
	0,0086	0,0057	0,0571	0,1714
	0,0100	0,0066	0,0664	0,1992
	0,0070	0,0047	0,0468	0,1403
	0,0101	0,0067	0,0672	0,2015
	0,0068	0,0045	0,0453	0,1359
	0,0073	0,0049	0,0489	0,1466
	0,0092	0,0061	0,0610	0,1830
	0,0088	0,0059	0,0586	0,1758
	0,0069	0,0046	0,0460	0,1380
Mean	0,0083	0,0056	0,0555	0,1666

Pekerjaan Plesteran Dinding Bata Merah

No	As Dinding	Volume Dinding (m ²)	Jumlah Tukang	Waktu	Konversi	Koefisien Tukang
1	Y3-Y4	18	1	04:57:20	4,9554978	0,0393
2	Y3-Y4	7,2	1	01:54:02	1,9004221	0,0377
3	Y3-Y4	7,2	1	02:03:42	2,0616414	0,0409
4	Y4-Y5	5,6	1	01:49:41	1,8281313	0,0466
5	Y4-Y5	7,5	1	02:11:51	2,1975758	0,0419
6	Y4-Y5	14,4	1	04:15:01	4,2503788	0,0422
7	Y4-Y5	8	1	02:22:01	2,3670455	0,0423
8	Y5-Y6	12,8	1	03:37:26	3,623961	0,0404
9	Y5-Y6	8	1	02:19:55	2,3318182	0,0416
10	Y5-Y6	6,4	1	02:08:01	2,1335714	0,0476
11	Y5-Y6	6	1	01:38:40	1,6445455	0,0392
12	Y5-Y6	5,2	1	01:20:43	1,3452165	0,0370

	Koefisien Mandor	Koefisien Kepala Tukang	Koefisien Tukang	Koefisien Pekerja
Perwal No 79	0,015	0,015	0,15	0,3
Hasil Pengamatan	0,0039	0,0039	0,0393	0,0787
	0,0038	0,0038	0,0377	0,0754
	0,0041	0,0041	0,0409	0,0818
	0,0047	0,0047	0,0466	0,0933
	0,0042	0,0042	0,0419	0,0837
	0,0042	0,0042	0,0422	0,0843
	0,0042	0,0042	0,0423	0,0845
	0,0040	0,0040	0,0404	0,0809
	0,0042	0,0042	0,0416	0,0833
	0,0048	0,0048	0,0476	0,0952
	0,0039	0,0039	0,0392	0,0783
	0,0037	0,0037	0,0370	0,0739
<i>Mean</i>	0,0041	0,0041	0,0414	0,0828

Pekerjaan Acian Dinding Bata Merah

No	As Dinding	Volume Dinding (m ²)	Jumlah Tukang	Waktu	Konversi	Koefisien Tukang
1	Y4-Y5	14	1	02:14:03	2,2342857	0,0228
2	Y4-Y5	6,2	1	01:00:28	1,0078571	0,0232
3	Y4-Y5	4	1	00:37:03	0,6175325	0,0221
4	Y4-Y5	8	1	01:16:00	1,2666234	0,0226
5	Y4-Y5	28	1	04:26:57	4,4490693	0,0227
7	Y4-Y5	2,79	1	00:22:06	0,3684452	0,0189
8	Y4-Y5	2,97	1	00:26:54	0,4484416	0,0216
9	Y4-Y5	5,4	1	00:46:48	0,7800433	0,0206
10	Y4-Y5	1,17	1	00:10:24	0,1733874	0,0212
11	Y4-Y5	16	1	02:35:01	2,5836941	0,0231
12	Y4-Y5	6,7	1	01:04:35	1,0764466	0,0230
13	Y4-Y5	7,6	1	01:11:17	1,1879221	0,0223

	Koefisien Mandor	Koefisien Kepala Tukang	Koefisien Tukang	Koefisien Pekerja
Perwal No 79	0,01	0,01	0,1	0,2
Hasil Pengamatan	0,0023	0,0023	0,0228	0,0456
	0,0023	0,0023	0,0232	0,0464
	0,0022	0,0022	0,0221	0,0441
	0,0023	0,0023	0,0226	0,0452
	0,0023	0,0023	0,0227	0,0454
	0,0019	0,0019	0,0189	0,0377
	0,0022	0,0022	0,0216	0,0431
	0,0021	0,0021	0,0206	0,0413
	0,0021	0,0021	0,0212	0,0423
	0,0023	0,0023	0,0231	0,0461
	0,0023	0,0023	0,0230	0,0459
	0,0022	0,0022	0,0223	0,0447
<i>Mean</i>	0,0022	0,0022	0,0220	0,0440

LAMPIRAN 9

KOEFSISIEN BAHAN

Pekerjaan Pemasangan Dinding Bata Ringan

No	As Dinding	Luas Dinding (m ²)	Material		Koefisien Bahan	
			Bata Ringan (bh)	Spesi (m ²)	Bata Ringan	Spesi
1	As 1 (E-F)	14,376	117	0,8488	8,1693	0,0590
2	As 3 (E-F)	20,172	165	1,1910	8,1693	0,0590
3	As E (3-4)	24,12	197	1,4240	8,1693	0,0590
4	As 3 (F-G)	17,7608	145	1,0486	8,1693	0,0590
5	As C (3-4)	16,92	138	0,9990	8,1693	0,0590
6	As 4 (C-D)	15,54	127	0,9175	8,1693	0,0590
7	As C (2-3)	1,815	15	0,1072	8,1693	0,0590
8	As 2 (A-B)	3,765	31	0,2223	8,1693	0,0590
9	As 2 (B-C)	5,415	44	0,3197	8,1693	0,0590
10	As 2 (Aa-A)	2,085	17	0,1231	8,1693	0,0590
11	As E (1-2)	25,16	206	1,4854	8,1693	0,0590
12	As 1 (E-F)	17,836	146	1,0530	8,1693	0,0590
13	As 1 (F-G)	17,836	146	1,0530	8,1693	0,0590
14	As 4 (G-H)	15,036	123	0,8877	8,1693	0,0590
15	As 4 (H-I)	15,036	123	0,8877	8,1693	0,0590
16	As 2 (G-H)	18,4208	150	1,0876	8,1693	0,0590
17	As 2 (H-I)	18,4208	150	1,0876	8,1693	0,0590
18	As I (1-2)	25,16	206	1,4854	8,1693	0,0590
19	As 3 (J-K)	16,576	135	0,9786	8,1693	0,0590
20	As K (2-3)	1,815	15	0,1072	8,1693	0,0590

Pekerjaan Plesteran Dinding Bata Ringan

No	As Dinding	Luas Dinding (m ²)	Material	Koefisien Bahan
			Plester Instan (m ²)	Plester Instan
1	As 2 (E-F)	17,7608	177,6080	10
2	As 2 (H-I)	20,172	201,7200	10
3	As 1 (F-G)	14,376	143,7600	10
4	As 2 (F-G)	17,7608	177,6080	10
5	As 3 (F-G)	17,7608	177,6080	10
6	As J (3-4)	24,17575	241,7575	10
7	As 4 (E-F)	15,036	150,3600	10
8	As E (3-4)	25,16	251,6000	10
9	As E (1-2)	25,16	251,6000	10
10	As 3 (E-F)	20,832	208,3200	10
11	As 1 (E-F)	15,036	150,3600	10
12	As 1 (F-G)	15,036	150,3600	10

Pekerjaan Acian Dinding Bata Ringan

No	As Dinding	Luas Dinding (m ²)	Material	Koefisien Bahan
			Aci Instan (m ²)	Aci Instan
1	As 2 (E-F)	35,5216	106,5648	3
2	As K (2-3)	1,695	5,0850	3
3	As 2 (J-K)	13,116	39,3480	3
4	As 1 (Aa-A)	7,35	22,0500	3
5	As 1 (A-B)	14,7	44,1000	3
6	As 2 (A-B)	3,765	11,2950	3
7	As 2 (E-F)	18,4208	55,2624	3
8	As 3 (E-F)	20,832	62,4960	3
9	As 4 (E-F)	15,036	45,1080	3
10	As 1 (I-J)	10,5	31,5000	3
11	As I (1-2)	25,16	75,4800	3
12	As 2 (J-K)	13,776	41,3280	3

Pekerjaan Pemasangan Dinding Bata Merah

No	As Dinding	Luas Dinding (m ²)	Material			Koefisien Bahan		
			Bata Merah	Semen	Pasir	Bata Merah	Semen	Pasir
1	Y4-Y5	1,372	69	13,2810	0,0617	50,0000	9,68	0,045
2	Y4-Y5	1,38	69	13,3584	0,0621	50,0000	9,68	0,045
3	Y4-Y5	1,95	98	18,8760	0,0878	50,0000	9,68	0,045
4	Y4-Y5	2,4	120	23,2320	0,1080	50,0000	9,68	0,045
5	Y4-Y5	0,64	32	6,1952	0,0288	50,0000	9,68	0,045
6	Y4-Y5	1,288	64	12,4678	0,0580	50,0000	9,68	0,045
7	Y4-Y5	1,56	78	15,1008	0,0702	50,0000	9,68	0,045
8	Y4-Y5	1,024	51	9,9123	0,0461	50,0000	9,68	0,045
9	Y4-Y5	2,64	132	25,5552	0,1188	50,0000	9,68	0,045
10	Y4-Y5	1,848	92	17,8886	0,0832	50,0000	9,68	0,045
11	Y4-Y5	1,288	64	12,4678	0,0580	50,0000	9,68	0,045
12	Y4-Y5	1,68	84	16,2624	0,0756	50,0000	9,68	0,045
13	Y4-Y5	1,716	86	16,6109	0,0772	50,0000	9,68	0,045
14	Y4-Y5	0,72	36	6,9696	0,0324	50,0000	9,68	0,045
15	Y4-Y5	1,736	87	16,8045	0,0781	50,0000	9,68	0,045
16	Y4-Y5	2,64	132	25,5552	0,1188	50,0000	9,68	0,045
17	Y4-Y5	1,848	92	17,8886	0,0832	50,0000	9,68	0,045
18	Y4-Y5	3,36	168	32,5248	0,1512	50,0000	9,68	0,045
19	Y4-Y5	1,728	86	16,7270	0,0778	50,0000	9,68	0,045
20	Y4-Y5	2,376	119	22,9997	0,1069	50,0000	9,68	0,045

Pekerjaan Plesteran Dinding Bata Merah

No	As Dinding	Luas Dinding (m ²)	Material		Koefisien Bahan	
			Semen	Pasir	Semen	Pasir
1	Y3-Y4	18	79,5600	0,4860	4,42	0,027
2	Y3-Y4	7,2	31,8240	0,1944	4,42	0,027
3	Y3-Y4	7,2	31,8240	0,1944	4,42	0,027
4	Y4-Y5	5,6	24,7520	0,1512	4,42	0,027
5	Y4-Y5	7,5	33,1500	0,2025	4,42	0,027
6	Y4-Y5	14,4	63,6480	0,3888	4,42	0,027
7	Y4-Y5	8	35,3600	0,2160	4,42	0,027
8	Y5-Y6	12,8	56,5760	0,3456	4,42	0,027
9	Y5-Y6	8	35,3600	0,2160	4,42	0,027
10	Y5-Y6	6,4	28,2880	0,1728	4,42	0,027
11	Y5-Y6	6	26,5200	0,1620	4,42	0,027
12	Y5-Y6	5,2	22,9840	0,1404	4,42	0,027

Pekerjaan Acian Dinding Bata Merah

No	As Dinding	Luas Dinding (m ²)	Material	Koefisien Bahan
			Semen	Semen
1	Y4-Y5	14	45,5	3,25
2	Y4-Y5	6,2	20,15	3,25
3	Y4-Y5	4	13	3,25
4	Y4-Y5	8	26	3,25
5	Y4-Y5	28	91	3,25
7	Y4-Y5	2,79	9,0675	3,25
8	Y4-Y5	2,97	9,6525	3,25
9	Y4-Y5	5,4	17,55	3,25
10	Y4-Y5	1,17	3,8025	3,25
11	Y4-Y5	16	52	3,25
12	Y4-Y5	6,7	21,775	3,25
13	Y4-Y5	7,6	24,7	3,25

LAMPIRAN 10
HARGA SATUAN MATERIAL DAN UPAH PEKERJA

No.	Nama Bahan	Satuan	Harga Satuan	Keterangan
1	Bata ringan Citicon 60x20x10 cm	bh	Rp7.700	
2	Mortar spesi siap pakai (SunMortar-03)	kg	Rp3.125	1 sak berisi 40 kg
3	Mortar plester siap pakai (SunMortar-01)	kg	Rp3.000	1 sak berisi 40 kg
4	Mortar acian siap pakai (SunMortar-02)	kg	Rp3.000	1 sak berisi 40 kg
5	Bata merah 5x11x22 cm	bh	Rp700	
6	Semen PCC Dynamix serba guna	kg	Rp1.025	1 sak berisi 40 kg
7	Pasir pasang	m ³	Rp180.000	

No	Jenis Upah	Satuan	Upah
1	Mandor	OH	Rp96.000
2	Kepala Tukang	OH	Rp110.000
3	Tukang	OH	Rp110.000
4	Pekerja	OH	Rp115.000

LAMPIRAN 11

BIAYA

Pekerjaan Pemasangan Dinding Bata Ringan

No.	ITEM PEKERJAAN	KOEF	SAT	HARGA SATUAN MATERIAL & UPAH	JUMLAH MATERIAL	JUMLAH UPAH	TOTAL HARGA
	A	B	C	D	E = (B X D)	F = (B X D)	G = (E + F)
1 m ² pemasangan dinding bata ringan ukuran 60x20x10 cm							
	Bahan :						
1.	Bata ringan 60x10x10 cm	8,1693	bh	Rp 7.700	Rp 62.904		
2.	Mortar spesi siap pakai (SunMortar-03)	0,0590	kg	Rp 3.125	Rp 184		
	Tenaga :						
1.	Mandor	0,0001	OH	Rp 96.000		Rp 9	
2.	Kepala Tukang	0,0041	OH	Rp 110.000		Rp 449	
3.	Tukang Batu	0,0408	OH	Rp 110.000		Rp 4.485	
4.	Pekerja	0,0210	OH	Rp 115.000		Rp 2.420	
	Sub Total				Rp 63.088	Rp 7.363	
	Total						Rp 70.452

Pekerjaan Plesteran Dinding Bata Ringan

No.	ITEM PEKERJAAN	KOEF	SAT	HARGA SATUAN MATERIAL & UPAH	JUMLAH MATERIAL	JUMLAH UPAH	TOTAL HARGA
	A	B	C	D	E = (B X D)	F = (B X D)	G = (E + F)
1 m ² plesteran dinding bata ringan							
	Bahan :						
1.	Mortar plester siap pakai (SunMortar-01)	10,0000	kg	Rp 3.000	Rp 30.000		
	Tenaga :						
1.	Mandor	0,00302	OH	Rp 96.000		Rp 290	
2.	Kepala Tukang	0,00302	OH	Rp 110.000		Rp 332	
3.	Tukang Batu	0,03016	OH	Rp 110.000		Rp 3.318	
4.	Pekerja	0,06033	OH	Rp 115.000		Rp 6.938	
	Sub Total				Rp 30.000	Rp 10.877	
	Total						Rp 40.877

Pekerjaan Acian Dinding Bata Ringan

No.	ITEM PEKERJAAN	KOEF	SAT	HARGA SATUAN MATERIAL & UPAH	JUMLAH MATERIAL	JUMLAH UPAH	TOTAL HARGA
	A	B	C	D	E = (B X D)	F = (B X D)	G = (E + F)
1 m ² acian dinding bata ringan							
	Bahan :						
1.	Mortar aci siap pakai (SunMortar-02)	3,0000	kg	Rp 3.000	Rp 9.000		
	Tenaga :						
1.	Mandor	0,00153	OH	Rp 96.000		Rp 147	
2.	Kepala Tukang	0,00153	OH	Rp 110.000		Rp 168	
3.	Tukang Batu	0,01531	OH	Rp 110.000		Rp 1.684	
4.	Pekerja	0,03062	OH	Rp 115.000		Rp 3.522	
	Sub Total				Rp 9.000	Rp 5.521	
	Total						Rp 14.521

Pekerjaan Pemasangan Dinding Bata Merah

No.	ITEM PEKERJAAN	KOEF	SAT	HARGA SATUAN MATERIAL & UPAH	JUMLAH MATERIAL	JUMLAH UPAH	TOTAL HARGA
	A	B	C	D	E = (B X D)	F = (B X D)	G = (E + F)
1 m ² pemasangan dinding bata merah ukuran 22x11x5 cm							
	Bahan :						
1.	Bata merah 22x11x5 cm	50,000	bh	Rp 700	Rp 35.000		
2.	Semen Portland	9,6800	kg	Rp 1.025	Rp 9.922		
3.	Pasir Pasang	0,0450	m3	Rp 180.000	Rp 8.100		
	Tenaga :						
1.	Mandor	0,0083	OH	Rp 96.000		Rp 800	
2.	Kepala Tukang	0,0056	OH	Rp 110.000		Rp 611	
3.	Tukang Batu	0,0555	OH	Rp 110.000		Rp 6.109	
4.	Pekerja	0,1666	OH	Rp 115.000		Rp 19.160	
	Sub Total				Rp 44.922	Rp 26.680	
	Total						Rp 71.602

Pekerjaan Plesteran Dinding Bata Merah

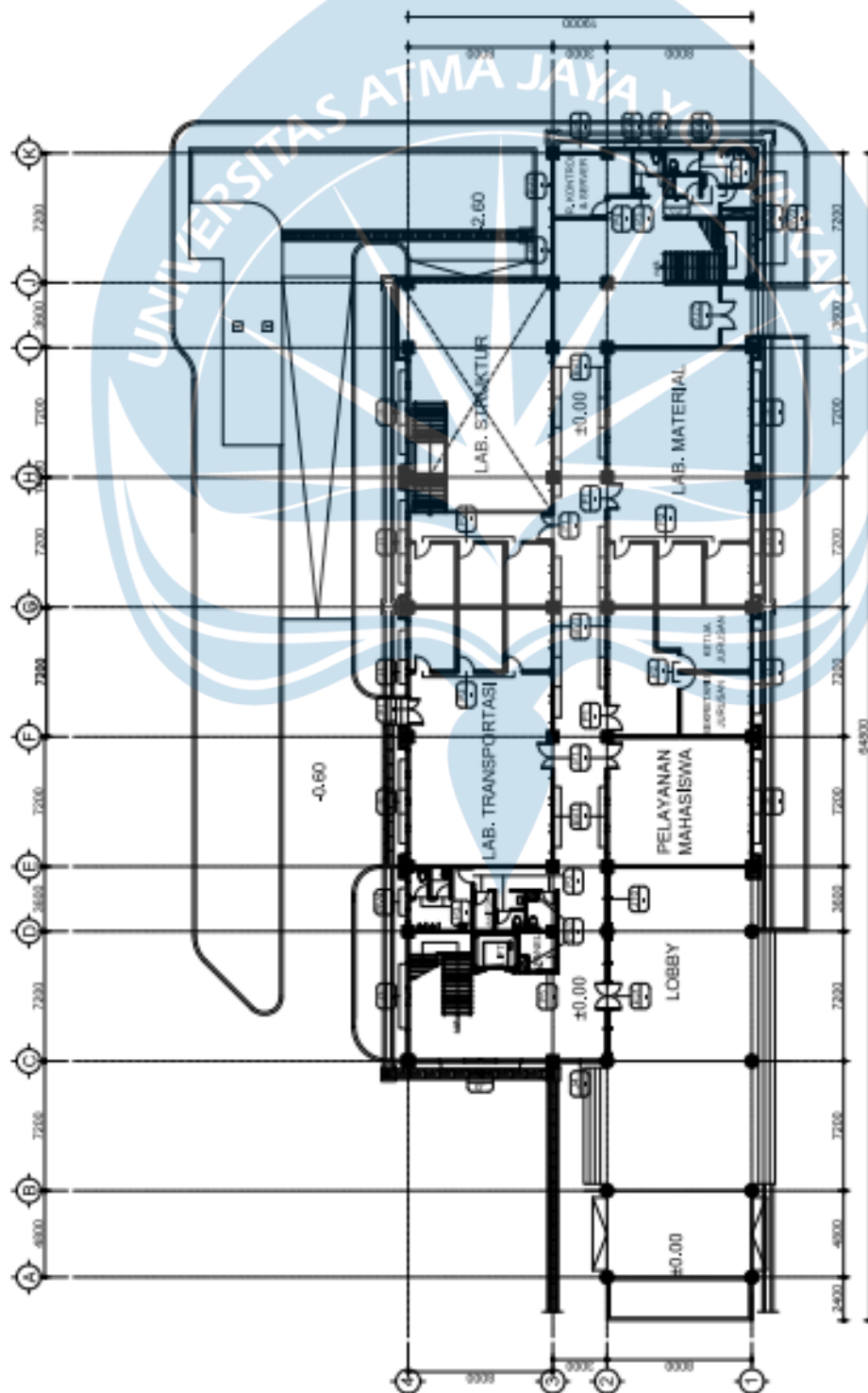
No.	ITEM PEKERJAAN	KOEF	SAT	HARGA SATUAN MATERIAL & UPAH	JUMLAH MATERIAL	JUMLAH UPAH	TOTAL HARGA
	A	B	C	D	E = (B X D)	F = (B X D)	G = (E + F)
1 m ² plesteran dinding bata merah							
	Bahan :						
1.	Semen Portland	4,4200	kg	Rp 1.025	Rp 4.531		
2.	Pasir Pasang	0,0270	m3	Rp 180.000	Rp 4.860		
	Tenaga :						
1.	Mandor	0,0041	OH	Rp 96.000		Rp 397	
2.	Kepala Tukang	0,0041	OH	Rp 110.000		Rp 455	
3.	Tukang Batu	0,0414	OH	Rp 110.000		Rp 4.553	
4.	Pekerja	0,0828	OH	Rp 115.000		Rp 9.520	
	Sub Total				Rp 9.391	Rp 14.925	
	Total						Rp 24.316

Pekerjaan Acian Dinding Bata Merah

No.	ITEM PEKERJAAN	KOEF	SAT	HARGA SATUAN MATERIAL & UPAH	JUMLAH MATERIAL	JUMLAH UPAH	TOTAL HARGA
	A	B	C	D	E = (B X D)	F = (B X D)	G = (E + F)
1 m ² acian dinding bata merah							
	Bahan :						
1.	Semen Portland	3,2500	kg	Rp 1.025	Rp 3.331		
	Tenaga :						
1.	Mandor	0,0022	OH	Rp 96.000		Rp 211	
2.	Kepala Tukang	0,0022	OH	Rp 110.000		Rp 242	
3.	Tukang Batu	0,0220	OH	Rp 110.000		Rp 2.420	
4.	Pekerja	0,0440	OH	Rp 115.000		Rp 5.060	
	Sub Total				Rp 3.331	Rp 7.933	
	Total						Rp 11.264

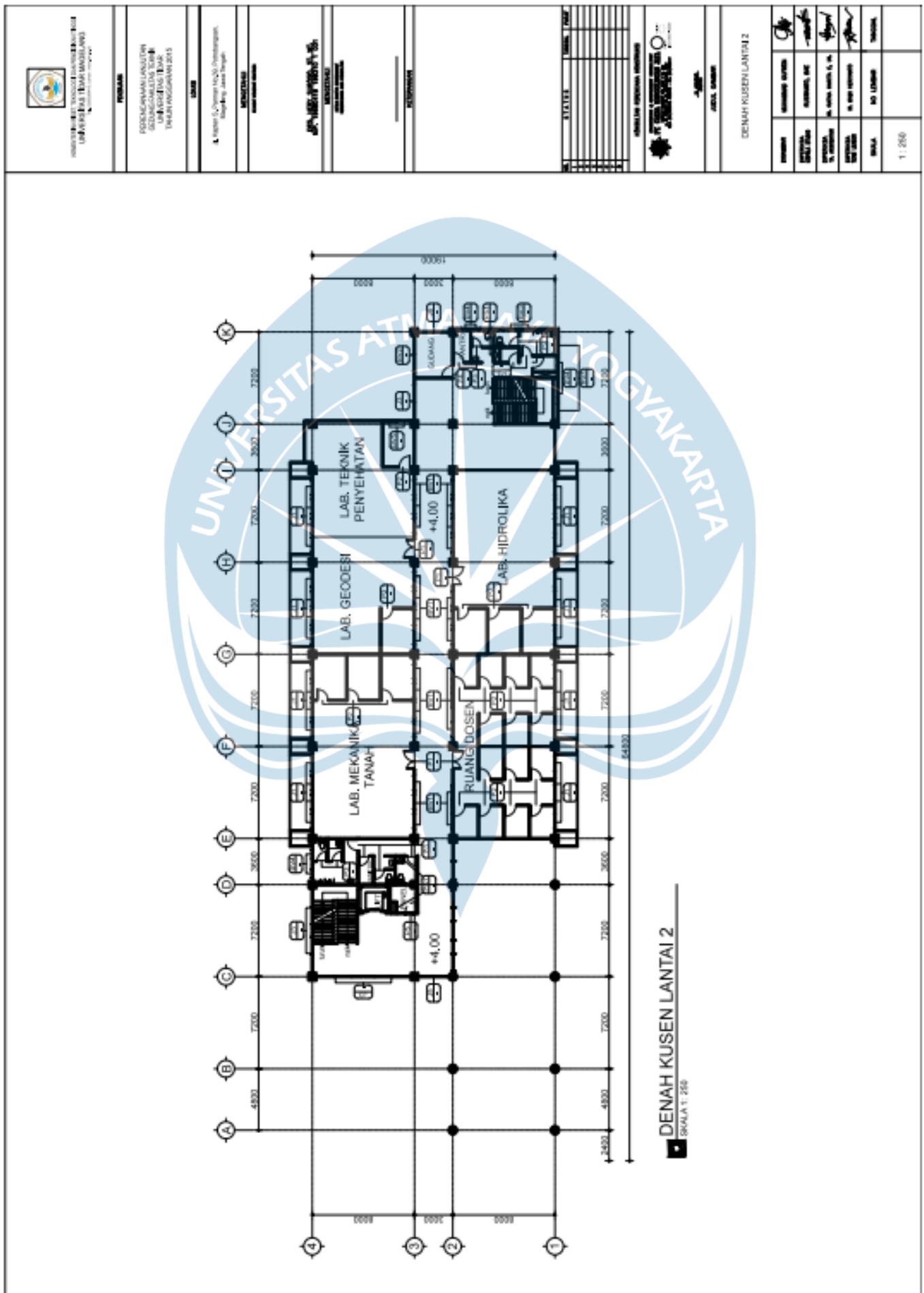
LAMPIRAN 12
GAMBAR PROYEK

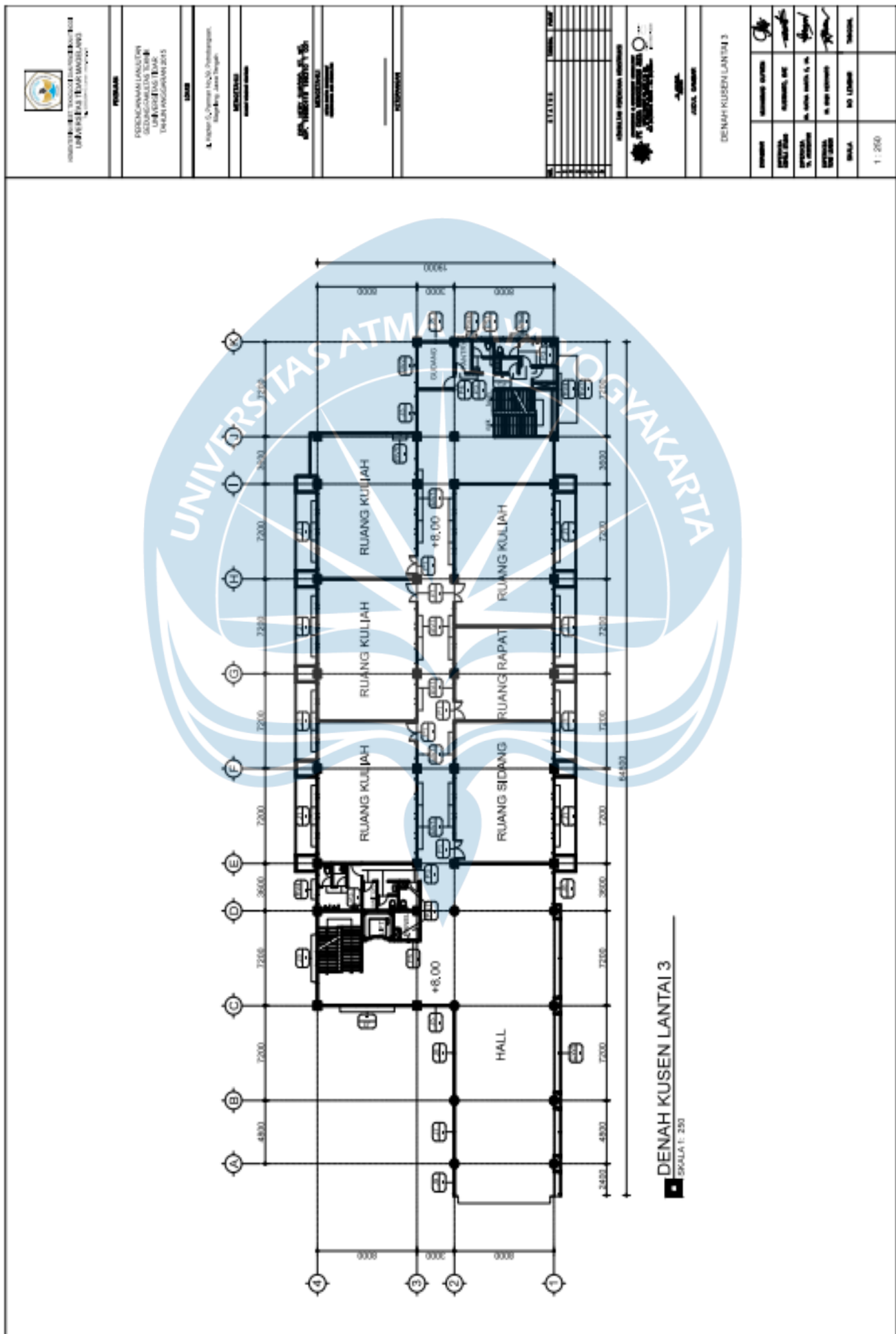


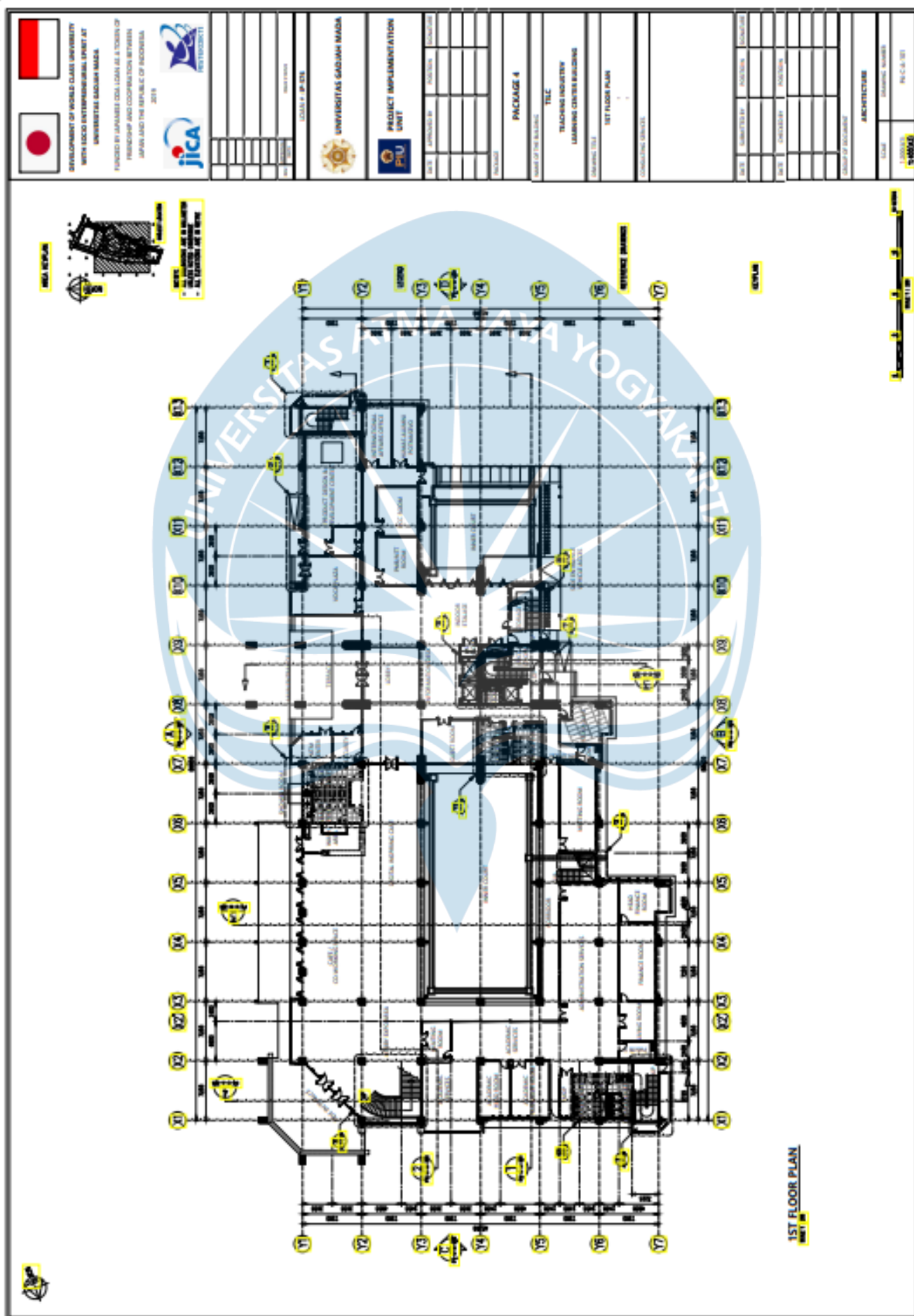


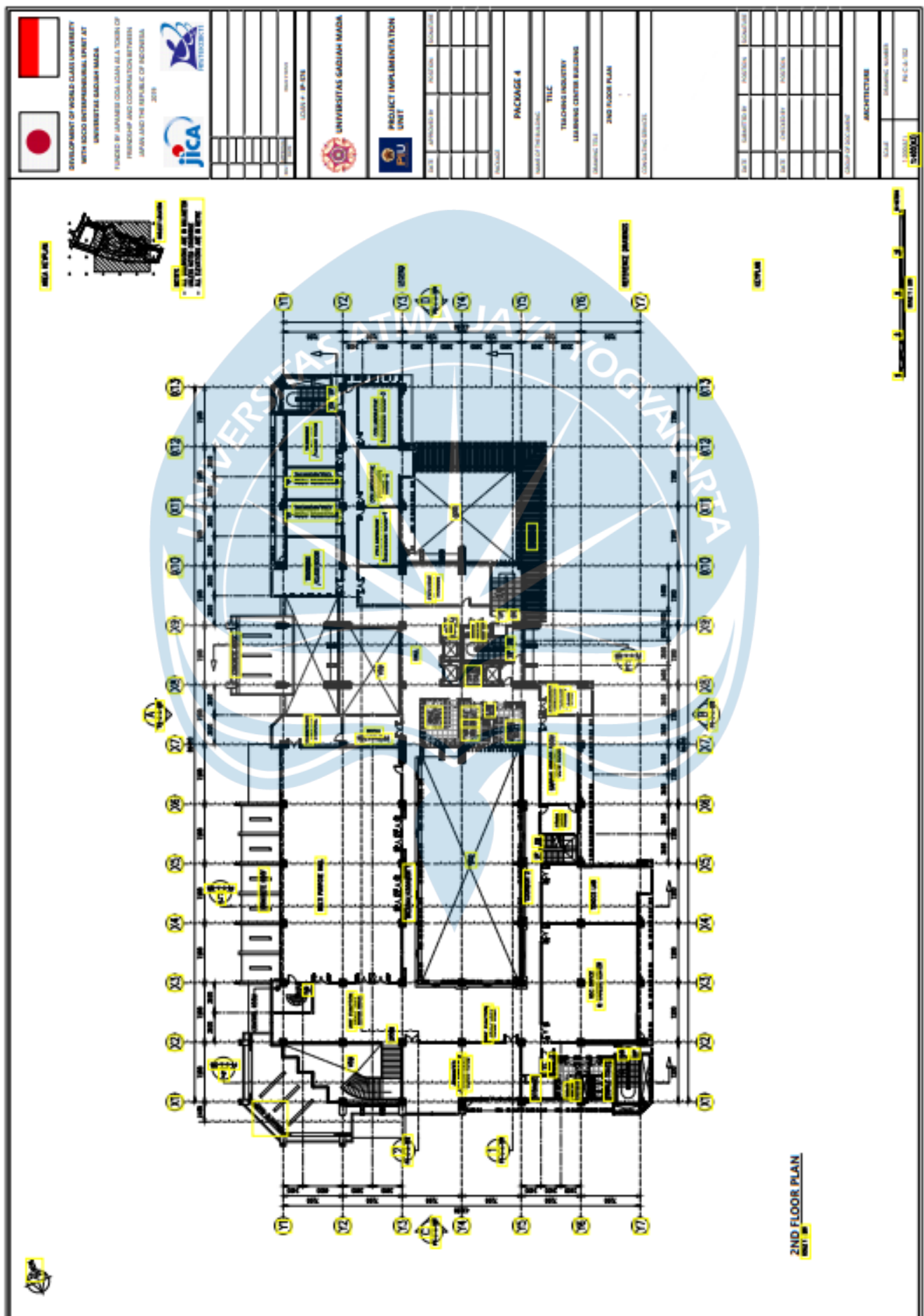
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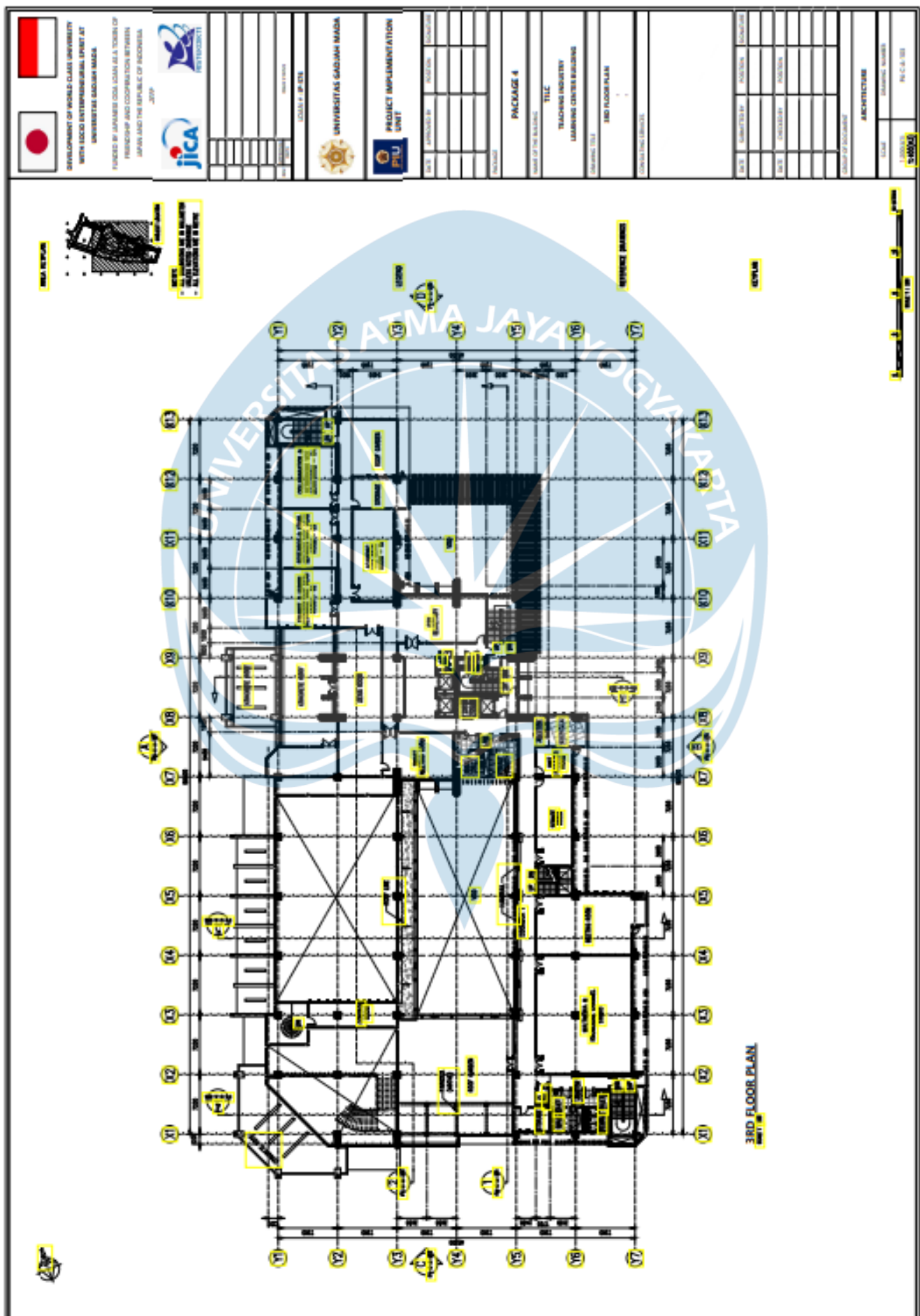
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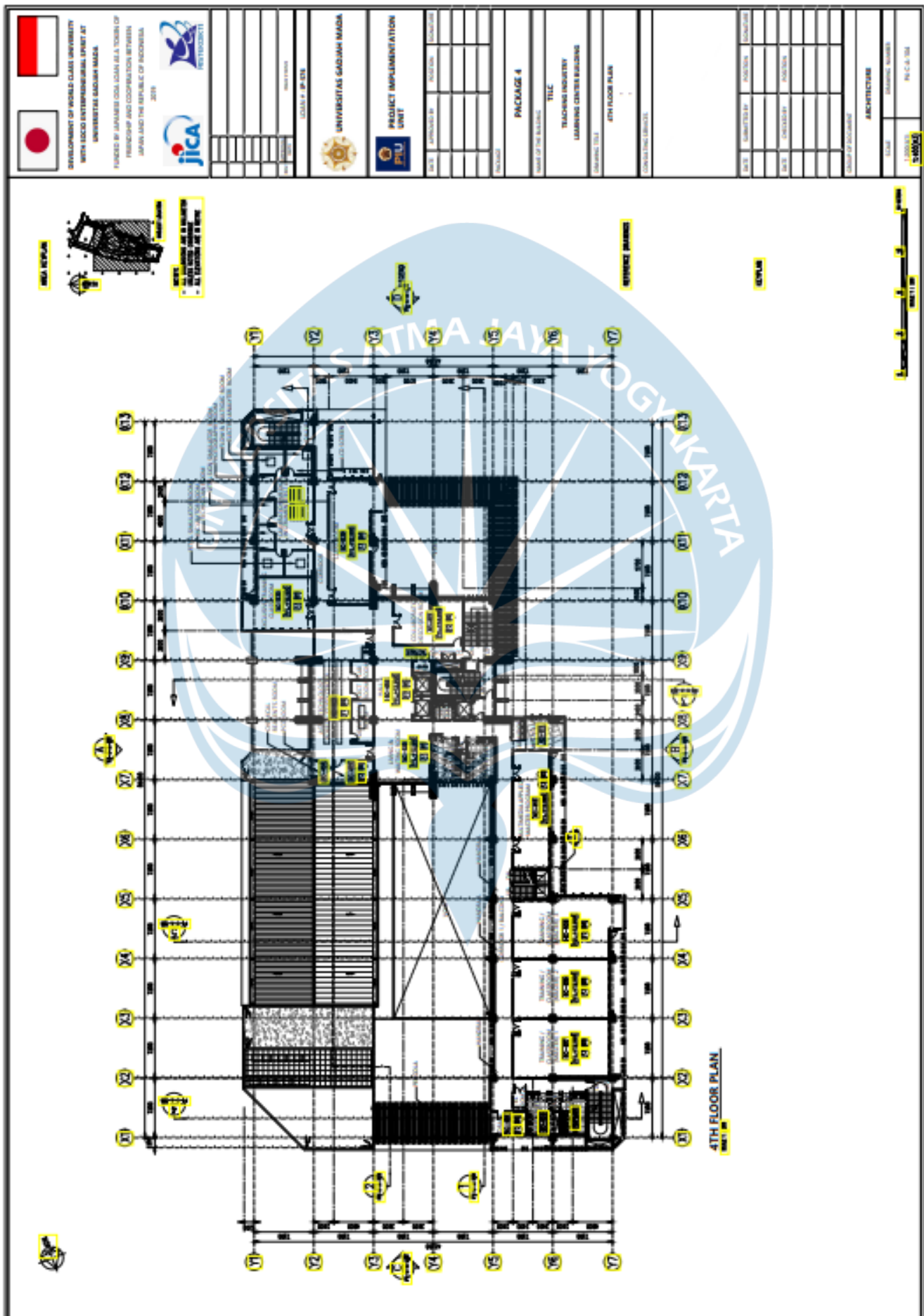








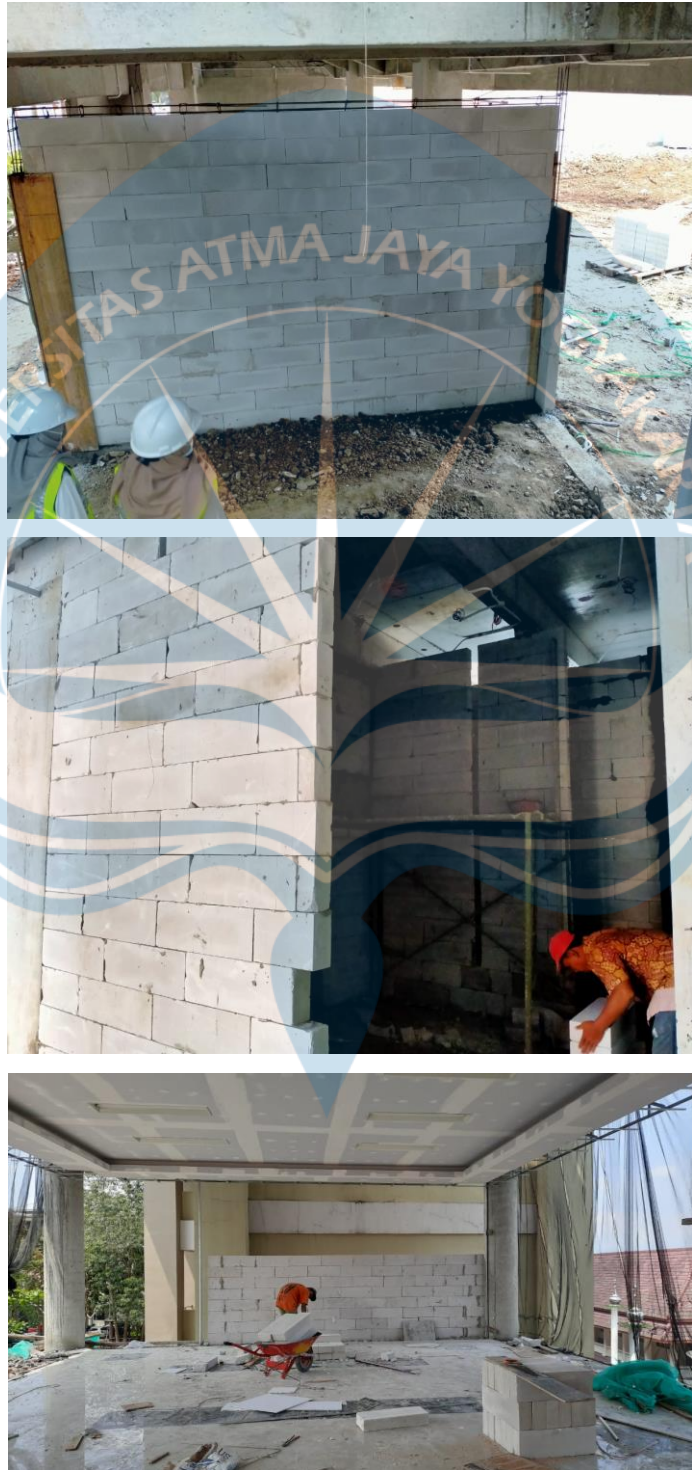




LAMPIRAN 13

DOKUMENTASI

Pekerjaan Bata Ringan





Pekerjaan Bata Merah



