

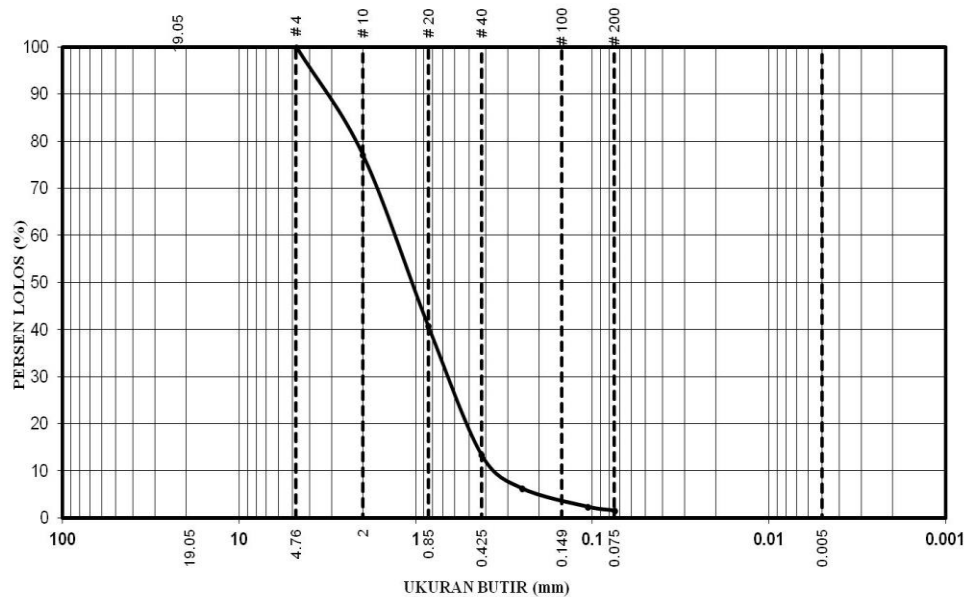
LAMPIRAN

Lampiran 1. Hasil Pengujian Analisa Saringan

- Pengujian Analisa Saringan Sampel 1

Nama Bahan		PASIR			
Berat Contoh (gr)		500			
Ukuran Saringan	Ukuran Saringan	Berat Masing-Masing Tertahan	Berat Jumlah Tertahan	Prosentase Jumlah Tertahan	Prosentase Jumlah Lolos
(inch)	(mm)	(gram)	(gram)	(%)	(%)
No. 4	4.75	0.00	0	0	100
No. 10	2	113.90	113.9	22.78	77.22
No. 20	0.85	182.30	296.2	59.24	40.76
No. 40	0.425	136.30	432.5	86.50	13.50
No. 60	0.25	35.80	468.3	93.66	6.34
No. 140	0.106	19.50	487.8	97.56	2.44
No. 200	0.075	4	491.8	98.36	1.64
Pan	-	8,20	500.0	100.00	0.00

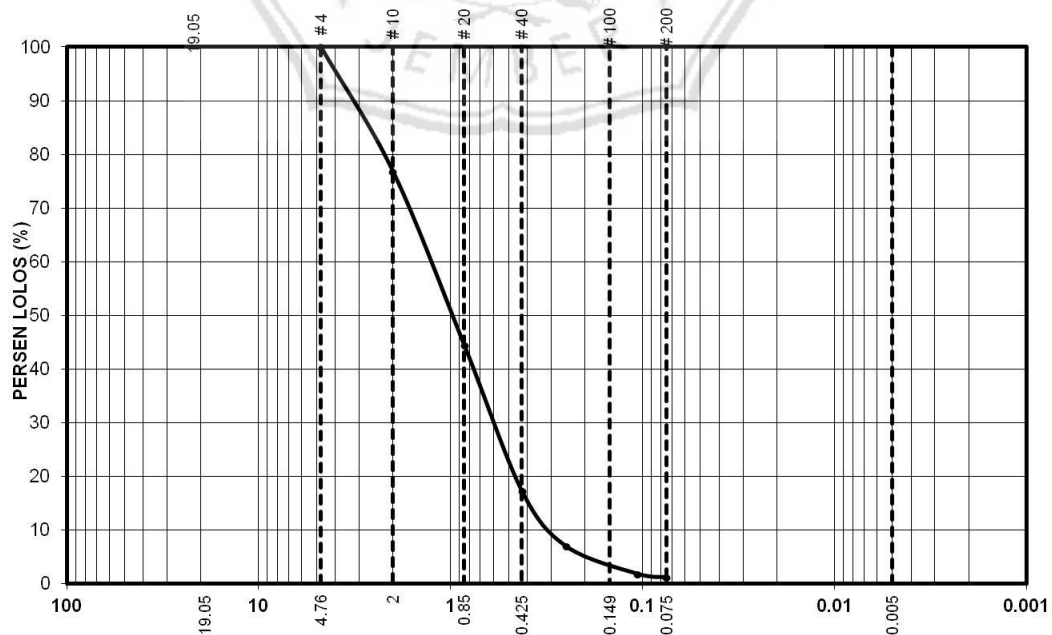
Sumber : Hasil uji di laboratorium



- Pengujian Analisa Saringan Sampel 2

Nama Bahan		PASIR			
Berat Contoh (gr)		500			
Ukuran Saringan	Ukuran Saringan	Berat Masing-Masing Tertahan	Berat Jumlah Tertahan	Prosentase Jumlah Tertahan	Prosentase Jumlah Lolos
(inch)	(mm)	(gram)	(gram)	(%)	(%)
No. 4	4.75	0.00	0	0	100
No. 10	2	115.90	115.9	23.18	76.82
No. 20	0.85	161.70	277.6	55.52	44.48
No. 40	0.425	136.30	413.9	82.78	17.22
No. 60	0.25	51.50	465.4	93.08	6.92
No. 140	0.106	25.70	491.1	98.22	1.78
No. 200	0.075	3.10	494.2	98.84	1.16
Pan	-	5.80	500.0	100.00	0.00

Sumber : Hasil uji di laboratorium



Lampiran 2. Hasil Pengujian Spesific Grafity (GS)

- Pengujian Spesific Grafity Sampel 1

Specify Gravity Pasir (GS)				
no bejana		1	2	3
Berat bejana	gram	167.9	172.2	174.6
berat bejana + air (W1)	gram	665.1	669.4	671.7
berat bejana + air + tanah (W2)	gram	727.4	731.6	734.4
berat tanah kering (W3)	gram	100.4	100.6	100.6
Temperatur campuran (T1 29°C)	°C	26	26	26
$G_s \text{ (pada } 29^\circ\text{C)} = W_3 / (W_1 + W_3) - W_2$		2.635	2.620	2.654
Corection Factor, A		0.9986	0.9986	0.9986
$G_s \text{ (pada } 20^\circ\text{C)} = A \cdot G_s \text{ (pada } 29^\circ\text{C)}$		2.63	2.62	2.65
GS Rata - rata		2.63		

Sumber : Hasil uji di laboratorium

- Pengujian Spesific Grafity Sampel 2

Specify Gravity Pasir (GS)				
no bejana		1	2	3
Berat bejana	gram	172.7	175	168.4
berat bejana + air (W1)	gram	669.5	672	665.5
berat bejana + air + tanah (W2)	gram	731.3	733.7	727.8
berat tanah kering (W3)	gram	100	99.2	99.7
Temperatur campuran (T1 29°C)	°C	26	26	26
$G_s \text{ (pada } 29^\circ\text{C)} = W_3 / (W_1 + W_3) - W_2$		2.618	2.645	2.666
Corection Factor, A		0.9986	0.9986	0.9986
$G_s \text{ (pada } 20^\circ\text{C)} = A \cdot G_s \text{ (pada } 29^\circ\text{C)}$		2.61	2.64	2.66
GS Rata - rata		2.64		

Sumber : Hasil uji di laboratorium

Lampiran 3. Hasil Pengujian Proctor Modified

- Kadar Air Awal Sampel

KADAR AIR PERTAMA				
No. cawan		1	2	3
Berat cawan (W_1)	gr	14.40	12.70	13.10
Berat cawan + tanah basah (W_2)	gr	71.60	72.80	72.80
Berat cawan + tanah kering (W_3)	gr	70.70	71.90	71.90
Berat air ($W_8 = W_2 - W_3$)	gr	0.90	0.90	0.90
Berat tanah kering ($W_9 = W_3 - W_1$)	gr	56.30	59.20	58.80
Kadar air	%	1.60	1.52	1.53
Kadar air rata-rata, w	%	1.55		

Sumber : Hasil uji di laboratorium

- Penimbangan Sampel dan Mold

Berat tanah asli	gr	7000
Berat tanah	gr	6892
Berat air	gr	108
Berat mould	gr	6977
Volume mould	m3	2649.38

Sumber : Hasil uji di laboratorium

- Perencanaan Penambahan Kadar Air

Kadar air Prosentase (%)	Penambahan air		Berat Volume Basah	Berat Volume Basah - mold	Kadar Air Akhir	Berat Volume tanah Basah (γ)	Berat Volume Kering (γ_d)
	%	gr	ton/m ³	ton/m ³	%		
1.55	0	0	11223	4246	1.54	1.603	1.578
4.55	3	206.75	11828	4851	4.35	1.831	1.755
6.55	5	344.58	11835	4858	6.07	1.834	1.729
8.55	7	482.41	12048	5071	8.22	1.914	1.769
10.55	9	620.24	12213	5236	10.70	1.976	1.785
12.55	11	758.07	12179	5202	12.23	1.963	1.750
16.55	15	1033.73	12194	5217	15.33	1.969	1.707
10.50	9	616.80	untuk cbr				

Sumber : Hasil uji di laboratorium

- Pengujian Kadar Air Pada setiap Sampel Proctor Modified

PERCOBAAN 1				
No. Cawan		1	2	3
Berat Cawan (W_1)	gr	30.00	30.60	29.50
Berat Cawan + Tanah Basah (W_2)	gr	126.10	136.40	108.30
Berat Cawan + Tanah Kering (W_3)	gr	124.60	134.70	107.20
Berat Air ($W_8 = W_2 - W_3$)	gr	1.50	1.70	1.10
Berat Tanah Kering ($W_9 = W_3 - W_1$)	gr	94.60	104.10	77.70
Kadar Air	%	1.59	1.63	1.42
Kadar Air Rata-Rata, W	%	1.54		

Sumber : Hasil uji di laboratorium

PERCOBAAN 2				
No. Cawan		1	2	3
Berat Cawan (W_1)	gr	29.40	28.70	28.80
Berat Cawan + Tanah Basah (W_2)	gr	91.40	112.50	96.40
Berat Cawan + Tanah Kering (W_3)	gr	88.80	109.00	93.60
Berat Air ($W_8 = W_2 - W_3$)	gr	2.60	3.50	2.80
Berat Tanah Kering ($W_9 = W_3 - W_1$)	gr	59.40	80.30	64.80
Kadar Air	%	4.38	4.36	4.32
Kadar Air Rata-Rata, W	%	4.35		

Sumber : Hasil uji di laboratorium

PERCOBAAN 3				
No. Cawan		1	2	3
Berat Cawan (W_1)	gr	29.70	29.70	29.30
Berat Cawan + Tanah Basah (W_2)	gr	103.50	108.70	95.00
Berat Cawan + Tanah Kering (W_3)	gr	99.50	104.00	91.20
Berat Air ($W_8 = W_2 - W_3$)	gr	4.00	4.70	3.80
Berat Tanah Kering ($W_9 = W_3 - W_1$)	gr	69.80	74.30	61.90
Kadar Air	%	5.73	6.33	6.14
Kadar Air Rata-Rata, W	%	6.07		

Sumber : Hasil uji di laboratorium

PERCOBAAN 4				
No. Cawan		1	2	3
Berat Cawan (W_1)	gr	29.20	30.20	28.90
Berat Cawan + Tanah Basah (W_2)	gr	115.60	129.50	113.80
Berat Cawan + Tanah Kering (W_3)	gr	109.20	121.60	107.50
Berat Air ($W_8 = W_2 - W_3$)	gr	6.40	7.90	6.30
Berat Tanah Kering ($W_9 = W_3 - W_1$)	gr	80.00	91.40	78.60
Kadar Air	%	8.00	8.64	8.02
Kadar Air Rata-Rata, W	%	8.22		

Sumber : Hasil uji di laboratorium

PERCOBAAN 5				
No. Cawan		1	2	3
Berat Cawan (W_1)	gr	30.80	30.90	30.40
Berat Cawan + Tanah Basah (W_2)	gr	143.30	128.20	134.20
Berat Cawan + Tanah Kering (W_3)	gr	132.50	118.90	124.00
Berat Air ($W_8 = W_2 - W_3$)	gr	10.80	9.30	10.20
Berat Tanah Kering ($W_9 = W_3 - W_1$)	gr	101.70	88.00	93.60
Kadar Air	%	10.62	10.57	10.90
Kadar Air Rata-Rata, W	%	10.70		

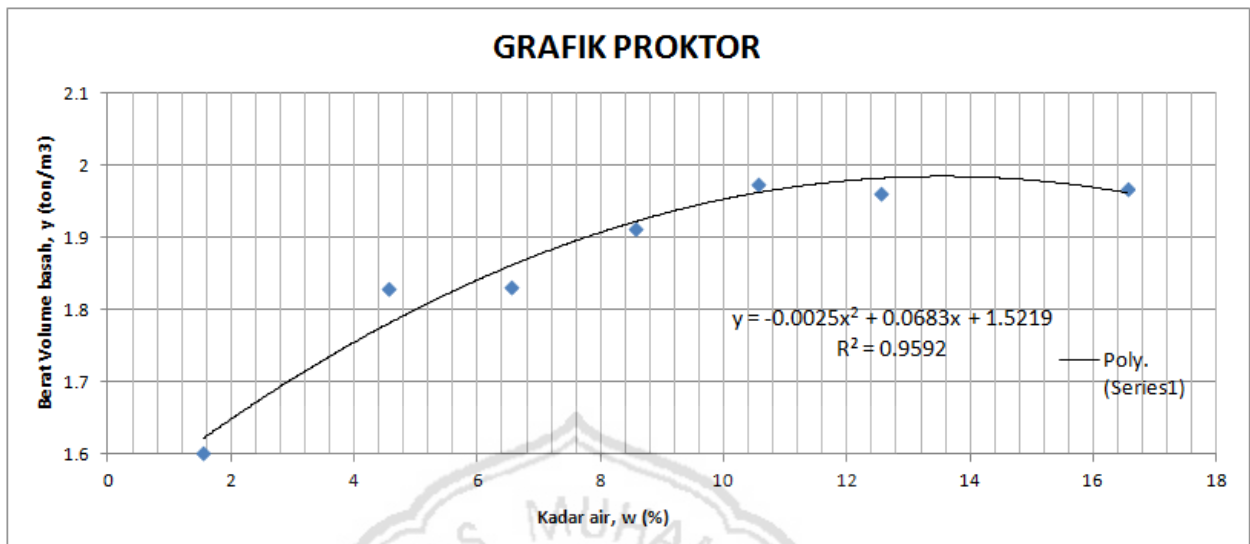
Sumber : Hasil uji di laboratorium

PERCOBAAN 6				
No. Cawan		1	2	3
Berat Cawan (W_1)	gr	29.5	30.5	29
Berat Cawan + Tanah Basah (W_2)	gr	132.6	146.5	144.7
Berat Cawan + Tanah Kering (W_3)	gr	121.6	133.7	132
Berat Air ($W_8 = W_2 - W_3$)	gr	11	12.8	12.7
Berat Tanah Kering ($W_9 = W_3 - W_1$)	gr	92.1	103.2	103
Kadar Air	%	11.944	12.403	12.330
Kadar Air Rata-Rata, W	%	12.23		

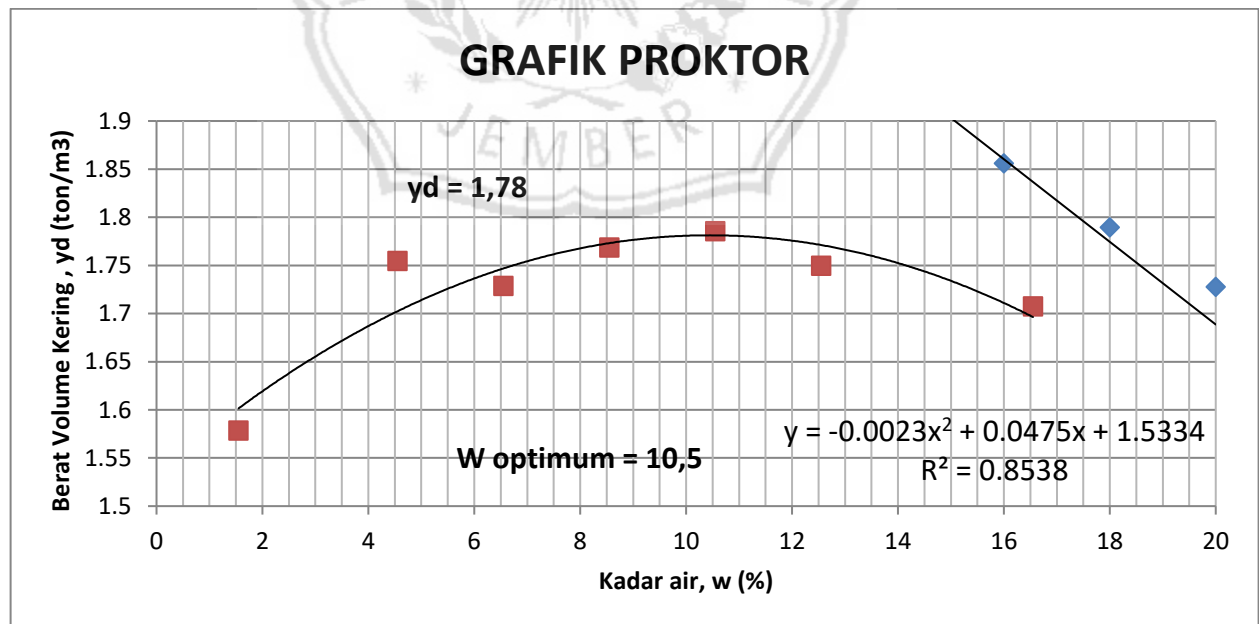
Sumber : Hasil uji di laboratorium

PERCOBAAN 7				
No. Cawan		1	2	3
Berat Cawan (W_1)	gr	30.5	29.8	29.8
Berat Cawan + Tanah Basah (W_2)	gr	143.9	176.1	128.6
Berat Cawan + Tanah Kering (W_3)	gr	128.2	156.4	116.2
Berat Air ($W_8 = W_2 - W_3$)	gr	15.7	19.7	12.4
Berat Tanah Kering ($W_9 = W_3 - W_1$)	gr	97.7	126.6	86.4
Kadar Air	%	16.070	15.561	14.352
Kadar Air Rata-Rata, W	%	15.33		

Sumber : Hasil uji di laboratorium



Sumber : Hasil uji di laboratorium



Sumber : Hasil uji di laboratorium

Lampiran 4. Hasil Pengujian Direct Shear

- Pengujian Direct Shear Pada Pembebanan 5 Kg

Sample	D(cm)	=	6.38	A(cm ²)	=	31.969
	P(kg)	=	5	s(kg/cm ²)	=	0.156
	Waktu	Dial Gsr	Gaya	Gaya(kg)	Teg. Gsr	Teg. Max
1	(dtk)			(kg)	(kg/cm ²)	(kg/cm ²)
	0	0	0	0.000	0.000	0.206
	15	25	1.2	1.978	0.062	
	30	50	1.7	2.802	0.088	
	45	75	2.3	3.791	0.119	
	60	100	2.9	4.781	0.150	
	75	125	3	4.945	0.155	
	90	150	3.2	5.275	0.165	
	105	175	3.5	5.770	0.180	
	120	200	3.5	5.770	0.180	
	135	225	3.5	5.770	0.180	
	150	250	3.6	5.934	0.186	
	165	275	3.8	6.264	0.196	
	180	300	3.9	6.429	0.201	
	195	325	4	6.594	0.206	
	210	350	3.2	5.275	0.165	
	225	375	3	4.945	0.155	

Sumber : Hasil uji di laboratorium

- Pengujian Direct Shear Pada Pembebanan 10 Kg

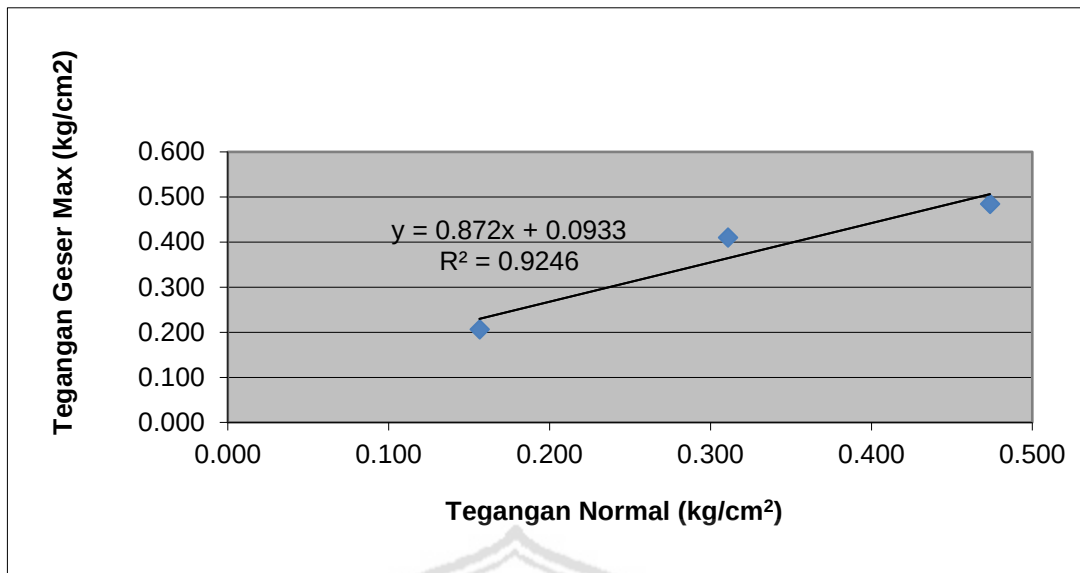
Sample	D(cm)	=	6.4	A(cm ²)	=	32.170
	P(kg)	=	10	s(kg/cm ²)	=	0.311
	Waktu	Dial Gsr	Gaya	Gaya(kg)	Teg.Gsr	Teg.Max
2	(dtk)			(kg)	(kg/cm ²)	(kg/cm ²)
	0	0	0	0.000	0.000	0.410
	15	25	2.1	3.462	0.108	
	30	50	3.2	5.275	0.164	
	45	75	4.3	7.088	0.220	
	60	100	5.2	8.572	0.266	
	75	125	5.8	9.561	0.297	
	90	275	6.8	11.209	0.348	
	105	300	7.2	11.869	0.369	
	120	325	8	13.188	0.410	
	135	350	7.5	12.363	0.384	
	150	375	7	11.539	0.359	

Sumber : Hasil uji di laboratorium

- Pengujian Direct Shear Pada Pembebanan 15 Kg

Sample	D(cm)	=	6.35	A(cm ²)	=	31.669
	P(kg)	=	15	s(kg/cm ²)	=	0.474
	Waktu	Dial Gsr	Gaya	Gaya(kg)	Teg. Gsr	Teg. Max
3	(dtk)			(kg)	(kg/cm ²)	(kg/cm ²)
	0	0	0	0.000	0.000	0.484
	15	25	3.1	5.110	0.161	
	30	50	5	8.242	0.260	
	45	75	6	9.891	0.312	
	60	100	6.8	11.209	0.354	
	75	125	7.2	11.869	0.375	
	90	150	8.1	13.352	0.422	
	105	175	9	14.836	0.468	
	120	200	9.3	15.331	0.484	
	135	225	8.9	14.671	0.463	
	150	250	8.2	13.517	0.427	

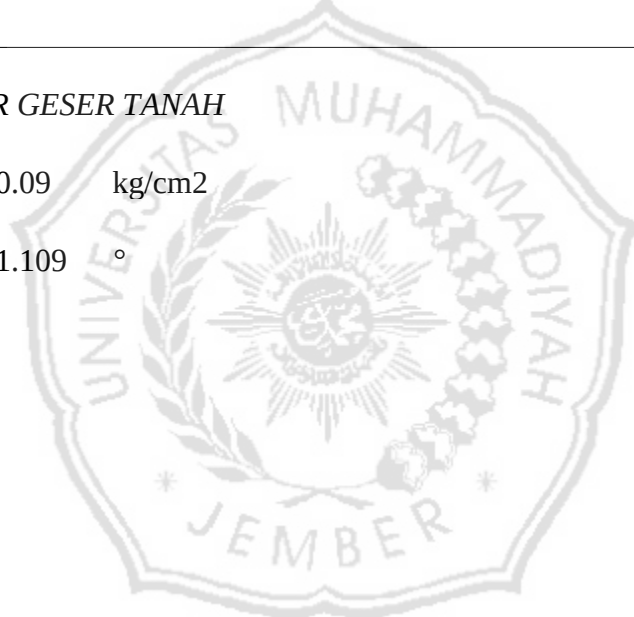
Sumber : Hasil uji di laboratorium



PARAMETER GESER TANAH

c = 0.09 kg/cm²

Φ = 41.109 °



Lampiran 5. Perhitungan Volume Cetakan (Mold) dan Berat Isi Sampel

- Perhitungan Volume Cetakan (Mold)

VOLUME BALOK		
Panjang	23	cm
Lebar	10	cm
Tinggi	12	cm
VOLUME	2760	Cm3

VOLUME SEGITIGA		
Alas	12	cm
Tinggi	12	cm
Lebar	10	cm
VOLUME	720	Cm3

VOLUME TOTAL		
Volume Balok	2760	Cm3
Volume Segitiga	720	Cm3
Volume Total	3480	Cm3

Sumber : Hasil Perhitungan

- Perhitungan Berat Isi Cetakan (Mold)

PERHTUNGAN BERAT ISI CETAKAN		
yd	1.78	gram/cm ³
W opt	10.50	%
y	1.9669	gram/cm ³
W(berat tanah) + air	6844.8	gram
Penambahan air dari kadar air awal	10.50	%
tanah	6,126.11	gram
air	718.71	gram

Sumber : Hasil Perhitungan

- Perhitungan Berat Isi Sampel Tanpa Perkuatan

TANPA PERKUATAN			
KETERANGAN		VOLUME	B. TANAH BASAH
		(cm ³)	(gram)
LAPISAN 1	V. BALOK	2760	6844.81
	V. PRISMA	720	
	V. TOTAL	3480	

Sumber : Hasil Perhitungan

- Perhitungan Berat Isi Setiap Lapisan Pada Sampel Dengan Spasi 2 Cm

SPASI 2 CM			
KETERANGAN		VOLUME	B. TANAH BASAH
		(cm ³)	(gram)
LAPISAN 1	V. BALOK	660	1337.49
	V. PRISMA	20	
	V. TOTAL	680	
LAPISAN 2	V. BALOK	620	1258.82

	V. PRISMA	20	
	V. TOTAL	640	
LAPISAN 3	V. BALOK	580	1180.14
	V. PRISMA	20	
	V. TOTAL	600	
LAPISAN 4	V. BALOK	540	1101.46
	V. PRISMA	20	
	V. TOTAL	560	
LAPISAN 5	V. BALOK	500	1022.79
	V. PRISMA	20	
	V. TOTAL	520	
LAPISAN 6	V. BALOK	460	944.11
	V. PRISMA	20	
	V. TOTAL	480	

Sumber : Hasil Perhitungan

- Perhitungan Berat Isi Setiap Lapisan Pada Sampel Dengan Spasi 3 Cm

SPASI 3 CM			
KETERANGAN		VOLUME	B. TANAH BASAH
		(cm ³)	(gram)
LAPISAN 1	V. BALOK	960	1976.73
	V. PRISMA	45	
	V. TOTAL	1005	
LAPISAN 2	V. BALOK	870	1799.71
	V. PRISMA	45	
	V. TOTAL	915	
LAPISAN 3	V. BALOK	780	1622.69
	V. PRISMA	45	
	V. TOTAL	825	
LAPISAN 4	V. BALOK	690	1445.67
	V. PRISMA	45	
	V. TOTAL	735	

Sumber : Hasil Perhitungan

- Perhitungan Berat Isi Setiap Lapisan Pada Sampel Dengan Spasi 4 Cm

SPASI 4 CM			
KETERANGAN		VOLUME	B. TANAH BASAH
		(cm ³)	(gram)
LAPISAN 1	V. BALOK	1240	2596.31
	V. PRISMA	80	
	V. TOTAL	1320	
LAPISAN 2	V. BALOK	1080	2281.60
	V. PRISMA	80	
	V. TOTAL	1160	
LAPISAN 3	V. BALOK	920	1966.90
	V. PRISMA	80	
	V. TOTAL	1000	

Sumber : Hasil Perhitungan

Lampiran 6. Perhitungan Pemotongan Geotextile

Spasi	=	4 cm		
Panjang geotextile (cm)	=	10	15	20
Panjang tekuk (cm)	=	2.5	3.75	5
Panjang kemiringan (cm)	=	5.66	5.66	5.66
($C = \sqrt{A^2 + B^2}$)				
Panjang potong (cm)	=	18.16	24.41	30.66

Spasi	=	3		
Panjang geotextile (cm)	=	10	15	20
Panjang tekuk (cm)	=	2.5	3.75	5
Panjang kemiringan (cm)	=	4.24	4.24	4.24
($C = \sqrt{A^2 + B^2}$)				
Panjang potong (cm)	=	16.74	22.99	29.24

Spasi	=	2		
Panjang geotextile (cm)	=	10	15	20
Panjang tekuk (cm)	=	2.5	3.75	5

Panjang kemiringan (cm)	=	2.83	2.83	2.83
$(C = \sqrt{A^2 + B^2})$				
Panjang potong (cm)	=	15.33	21.58	27.83

Sumber : Hasil Perhitungan

Lampiran 7. Perhitungan Kadar Air Sampel Saat Pemeraman

- Perhitungan kadar air pemeraman tanggal 28 Mei 2019

KADAR AIR SAMPEL TANGGAL : 28 Mei 2019

Nomor sampel		1	2	3
Berat cawan (w1)	gram	14.6	15.1	13.4
Berat cawan + Tanah basah (w2)	gram	58.6	62.5	58.1
Berat cawan + Tanah kering (w3)	gram	58.3	61.9	57.6
Berat air ($W_8 = W_2 - W_3$)	gram	0.3	0.6	0.5
Berat tanah kering ($W_9 = W_3 - W_1$)	gram	43.7	46.8	44.2
kadar air ($W = W_8 / W_9 \times 100$)	%	0.686	1.282	1.131
Kadar air rata - rata	%	1.03		

Berat Tanah	=	65577	gram
W opt	=	10.5	%
Kadar Air Sample	=	1.03	%
Kadar Air Penambahan	=	9.47	%
Berat Air ($w = W_w / W_s$)	=	6208.01	gram

KADAR AIR SAMPEL SETELAH DI PERAM

Nomor sampel		1	2	3
Berat cawan (w1)	gram	14.7	14.7	12.7
Berat cawan + Tanah basah (w2)	gram	55.8	60.4	58.3
Berat cawan + Tanah kering (w3)	gram	52	56.1	53.9
Berat air ($W8 = W2 - W3$)	gram	3.8	4.3	4.4
Berat tanah kering ($W9 = W3 - W1$)	gram	37.3	41.4	41.2
kadar air ($W = W8 / W9 \times 100$)	%	10.188	10.386	10.680
Kadar air rata - rata	%	10.42		

Sumber : Hasil uji di laboratorium

- Perhitungan kadar air pemeraman tanggal 17 Juni 2019

KADAR AIR SAMPEL TANGGAL : 17 Juni 2019

Nomor sampel		1	2	3
Berat cawan (w1)	gram	14.8	12.7	14.4
Berat cawan + Tanah basah (w2)	gram	56.2	53.7	57.3
Berat cawan + Tanah kering (w3)	gram	56	53.5	57.1
Berat air ($W8 = W2 - W3$)	gram	0.2	0.2	0.2
Berat tanah kering ($W9 = W3 - W1$)	gram	41.2	40.8	42.7
kadar air ($W = W8 / W9 \times 100$)	%	0.485	0.490	0.468
Kadar air rata - rata	%	0.48		

Berat Tanah	=	60000	gram
W opt	=	10.5	%
Kadar Air Sample	=	0.48	%
Kadar Air Penambahan	=	10.02	%
Berat Air ($w = Ww/Ws$)	=	6011.20	gram

KADAR AIR SAMPEL SETELAH DI PERAM

Nomor sampel		1	2	3
Berat cawan (w1)	gram	12.7	14.7	14.5
Berat cawan + Tanah basah (w2)	gram	58.3	54.6	62.4
Berat cawan + Tanah kering (w3)	gram	54.1	50.8	57.8
Berat air (W8= W2 -W3)	gram	4.2	3.8	4.6
Berat tanah kering (W9= W3 - W1)	gram	41.4	36.1	43.3
kadar air ($W = W8 / W9) * 100$	%	10.145	10.526	10.624
Kadar air rata - rata	%	10.43		

Sumber : Hasil uji di laboratorium

- Perhitungan kadar air pemeraman tanggal 26 Juni 2019

KADAR AIR SAMPEL TANGGAL : 26 Juni 2019

Nomor sampel		1	2	3
Berat cawan (w1)	gram	14.5	12.8	12.8
Berat cawan + Tanah basah (w2)	gram	64.8	71.7	74
Berat cawan + Tanah kering (w3)	gram	64.6	71.5	73.7
Berat air (W8= W2 -W3)	gram	0.2	0.2	0.3
Berat tanah kering (W9= W3 - W1)	gram	50.1	58.7	60.9
kadar air ($W = W8 / W9) * 100$	%	0.399	0.341	0.493
Kadar air rata - rata	%	0.41		

Berat Tanah	=	30000	gram
W opt	=	10.5	%
Kadar Air Sample	=	0.41	%
Kadar Air Penambahan	=	10.09	%
Berat Air ($w = Ww/Ws$)	=	3026.75	gram

KADAR AIR SAMPEL SETELAH DI PERAM

Nomor sampel		1	2	3
Berat cawan (w1)	gram	13.8	13.7	12.8
Berat cawan + Tanah basah (w2)	gram	65.9	64.6	67.2
Berat cawan + Tanah kering (w3)	gram	61.1	59.8	61.9
Berat air (W8= W2 - W3)	gram	4.8	4.8	5.3
Berat tanah kering (W9= W3 - W1)	gram	47.3	46.1	49.1
kadar air ($W = W8 / W9$) * 100	%	10.148	10.412	10.794
Kadar air rata - rata	%	10.45		

Sumber : Hasil uji di laboratorium

- Perhitungan kadar air pemeraman tanggal 26 Juni 2019

KADAR AIR SAMPEL TANGGAL : 28 Juni 2019

Nomor sampel		1	2	3
Berat cawan (w1)	gram	14.6	12.9	12.9
Berat cawan + Tanah basah (w2)	gram	55.4	54.7	68.9
Berat cawan + Tanah kering (w3)	gram	55.3	54.6	68.7
Berat air (W8= W2 - W3)	gram	0.1	0.1	0.2
Berat tanah kering (W9= W3 - W1)	gram	40.7	41.7	55.8
kadar air ($W = W8 / W9$) * 100	%	0.246	0.240	0.358
Kadar air rata - rata	%	0.28		

Berat Tanah	=	38735	gram
W opt	=	10.5	%
Kadar Air Sample	=	0.28	%
Kadar Air Penambahan	=	10.22	%
Berat Air (w = Ww/Ws)	=	3958.21	gram

KADAR AIR SAMPEL SETELAH DI PERAM

Nomor sampel		1	2	3
Berat cawan (w1)	gram	14.6	12.9	12.9
Berat cawan + Tanah basah (w2)	gram	67.8	68.4	66
Berat cawan + Tanah kering (w3)	gram	63	63.1	60.8
Berat air (W8= W2 - W3)	gram	4.8	5.3	5.2
Berat tanah kering (W9= W3 - W1)	gram	48.4	50.2	47.9
kadar air ($W = W8 / W9) * 100$	%	9.917	10.558	10.856
Kadar air rata - rata	%	10.44		

Sumber : Hasil uji di laboratorium

Lampiran 8. Hasil Pengujian Pemodelan Lereng Tanpa Perkuatan

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm2
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TANPA PERKUATAN

Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm2)
0	0	0	0	0	0
10	0.01	0.0254	1.5	22.214	0.444
20	0.02	0.0508	3.1	45.909	0.918
30	0.03	0.0762	3.6	53.314	1.066
40	0.04	0.1016	4.3	63.680	1.274
50	0.05	0.127	5.2	77.009	1.540
60	0.06	0.1524	6.2	91.818	1.836
70	0.07	0.1778	7	103.665	2.073
80	0.08	0.2032	7.6	112.551	2.251

90	0.09	0.2286	8.3	122.918	2.458
100	0.1	0.254	9.4	139.208	2.784
110	0.11	0.2794	10.2	151.055	3.021
120	0.12	0.3048	11	162.903	3.258
130	0.13	0.3302	11.9	176.231	3.525
140	0.14	0.3556	13	192.521	3.850
150	0.15	0.381	13.5	199.926	3.999
160	0.16	0.4064	14.4	213.254	4.265
170	0.17	0.4318	15.2	225.102	4.502
180	0.18	0.4572	15.6	231.026	4.621
190	0.19	0.4826	16	236.949	4.739
200	0.2	0.508	16.5	244.354	4.887
210	0.21	0.5334	17	251.759	5.035
220	0.22	0.5588	17.7	262.125	5.243
230	0.23	0.5842	18.2	269.530	5.391
240	0.24	0.6096	18.7	276.935	5.539
250	0.25	0.635	19	281.377	5.628
260	0.26	0.6604	19.3	285.820	5.716
270	0.27	0.6858	19.5	288.782	5.776
280	0.28	0.7112	19.7	291.744	5.835
290	0.29	0.7366	19.8	293.225	5.864
300	0.3	0.762	19.5	288.782	5.776
310	0.31	0.7874	18.9	279.897	5.598
320	0.32	0.8128	18.5	273.973	5.479
330	0.33	0.8382	18	266.568	5.331
340	0.34	0.8636	17.5	259.163	5.183
350	0.35	0.889	17.2	254.721	5.094
360	0.36	0.9144	17	251.759	5.035
370	0.37	0.9398	16.2	239.911	4.798
380	0.38	0.9652	14.6	216.216	4.324
390	0.39	0.9906	13.8	204.369	4.087

Sumber : Hasil uji di laboratorium

Lampiran 9. Hasil Pengujian Pemodelan Lereng Pada Spasi 2 Cm

- Hasil Pengujian Pemodelan Lereng Pada Spasi 2 Cm Dengan Variasi Panjang Geotextile 10 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm ²
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL SPASI 2 CM, PANJANG GEOTEXTILE 10 CM

Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm ²)
0	0	0	0	0	0
10	0.01	0.0254	1.2	17.771	0.355
20	0.02	0.0508	2	29.619	0.592
30	0.03	0.0762	3	44.428	0.889

40	0.04	0.1016	4.3	63.680	1.274
50	0.05	0.127	5.9	87.375	1.748
60	0.06	0.1524	8	118.475	2.369
70	0.07	0.1778	9.9	146.612	2.932
80	0.08	0.2032	12.2	180.674	3.613
90	0.09	0.2286	14.8	219.178	4.384
100	0.1	0.254	17.2	254.721	5.094
110	0.11	0.2794	19.3	285.820	5.716
120	0.12	0.3048	21.5	318.401	6.368
130	0.13	0.3302	24.2	358.386	7.168
140	0.14	0.3556	28	414.662	8.293
150	0.15	0.381	31.3	463.532	9.271
160	0.16	0.4064	34.3	507.960	10.159
170	0.17	0.4318	37.1	549.427	10.989
180	0.18	0.4572	38.8	574.602	11.492
190	0.19	0.4826	41.4	613.107	12.262
200	0.2	0.508	44	651.611	13.032
210	0.21	0.5334	46	681.230	13.625
220	0.22	0.5588	48.6	719.734	14.395
230	0.23	0.5842	50.1	741.948	14.839
240	0.24	0.6096	52.3	774.528	15.491
250	0.25	0.635	54.5	807.109	16.142
260	0.26	0.6604	57.6	853.018	17.060
270	0.27	0.6858	60	888.560	17.771
280	0.28	0.7112	62.6	927.065	18.541
290	0.29	0.7366	65.3	967.050	19.341
300	0.3	0.762	68.1	1008.516	20.170
310	0.31	0.7874	72	1066.272	21.325
320	0.32	0.8128	74.5	1103.296	22.066
330	0.33	0.8382	77.5	1147.724	22.954
340	0.34	0.8636	80.5	1192.152	23.843
350	0.35	0.889	83	1229.175	24.584
360	0.36	0.9144	86.8	1285.451	25.709
370	0.37	0.9398	89.6	1326.917	26.538
380	0.38	0.9652	92.7	1372.826	27.457
390	0.39	0.9906	95.8	1418.735	28.375
400	0.4	1.016	98.2	1454.277	29.086
410	0.41	1.0414	100.6	1489.820	29.796
420	0.42	1.0668	102.3	1514.995	30.300
430	0.43	1.0922	104.8	1552.019	31.040

440	0.44	1.1176	106.6	1578.676	31.574
450	0.45	1.143	108.4	1605.332	32.107
460	0.46	1.1684	110.5	1636.432	32.729
470	0.47	1.1938	112.2	1661.608	33.232
480	0.48	1.2192	114.3	1692.708	33.854
490	0.49	1.2446	116.5	1725.288	34.506
500	0.5	1.27	118.6	1756.388	35.128
510	0.51	1.2954	120.3	1781.564	35.631
520	0.52	1.3208	122.5	1814.144	36.283
530	0.53	1.3462	125	1851.168	37.023
540	0.54	1.3716	127.1	1882.267	37.645
550	0.55	1.397	129.5	1917.810	38.356
560	0.56	1.4224	131	1940.024	38.800
570	0.57	1.4478	132.8	1966.680	39.334
580	0.58	1.4732	134.8	1996.299	39.926
590	0.59	1.4986	137	2028.880	40.578
600	0.6	1.524	139	2058.498	41.170
610	0.61	1.5494	140.5	2080.712	41.614
620	0.62	1.5748	141.5	2095.522	41.910
630	0.63	1.6002	142.5	2110.331	42.207
640	0.64	1.6256	143.1	2119.217	42.384
650	0.65	1.651	143.6	2126.621	42.532
660	0.66	1.6764	144.5	2139.950	42.799
670	0.67	1.7018	145.7	2157.721	43.154
680	0.68	1.7272	146.1	2163.645	43.273
690	0.69	1.7526	144.6	2141.431	42.829
700	0.7	1.778	143	2117.736	42.355
710	0.71	1.8034	142.8	2114.774	42.295
720	0.72	1.8288	138.4	2049.613	40.992
730	0.73	1.8542	137.5	2036.284	40.726
740	0.74	1.8796	135.62	2008.443	40.169
750	0.75	1.905	133.74	1980.601	39.612
760	0.76	1.9304	131.86	1952.760	39.055
770	0.77	1.9558	129.98	1924.918	38.498
780	0.78	1.9812	128.1	1897.076	37.942

Sumber : Hasil uji di laboratorium

- Hasil Pengujian Pemodelan Lereng Pada Spasi 2 Cm Dengan Variasi Panjang Geotextile 15Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm2
	lebar	10			

Pengali Penurunan	0.001
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Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm2)
0	0	0	0	0	0
10	0.01	0.0254	0.9	13.328	0.267
20	0.02	0.0508	1	14.809	0.296
30	0.03	0.0762	1.2	17.771	0.355
40	0.04	0.1016	1.5	22.214	0.444
50	0.05	0.127	1.9	28.138	0.563
60	0.06	0.1524	2.1	31.100	0.622
70	0.07	0.1778	2.5	37.023	0.740

80	0.08	0.2032	3.1	45.909	0.918
90	0.09	0.2286	3.8	56.275	1.126
100	0.1	0.254	4.1	60.718	1.214
110	0.11	0.2794	5	74.047	1.481
120	0.12	0.3048	6	88.856	1.777
130	0.13	0.3302	7	103.665	2.073
140	0.14	0.3556	8.1	119.956	2.399
150	0.15	0.381	9.5	140.689	2.814
160	0.16	0.4064	10.8	159.941	3.199
170	0.17	0.4318	12.2	180.674	3.613
180	0.18	0.4572	14.6	216.216	4.324
190	0.19	0.4826	17	251.759	5.035
200	0.2	0.508	19.2	284.339	5.687
210	0.21	0.5334	20	296.187	5.924
220	0.22	0.5588	21.1	312.477	6.250
230	0.23	0.5842	22.8	337.653	6.753
240	0.24	0.6096	24.9	368.753	7.375
250	0.25	0.635	26	385.043	7.701
260	0.26	0.6604	28.8	426.509	8.530
270	0.27	0.6858	31.1	460.570	9.211
280	0.28	0.7112	34	503.518	10.070
290	0.29	0.7366	36.7	543.503	10.870
300	0.3	0.762	39.8	589.412	11.788
310	0.31	0.7874	42.5	629.397	12.588
320	0.32	0.8128	45.4	672.344	13.447
330	0.33	0.8382	48.5	718.253	14.365
340	0.34	0.8636	51.5	762.681	15.254
350	0.35	0.889	54.5	807.109	16.142
360	0.36	0.9144	57.5	851.537	17.031
370	0.37	0.9398	60	888.560	17.771
380	0.38	0.9652	63.6	941.874	18.837
390	0.39	0.9906	66.8	989.264	19.785
400	0.4	1.016	70	1036.654	20.733
410	0.41	1.0414	73.2	1084.044	21.681
420	0.42	1.0668	76.7	1135.876	22.718
430	0.43	1.0922	81	1199.557	23.991
440	0.44	1.1176	84.7	1254.351	25.087
450	0.45	1.143	88.5	1310.627	26.213
460	0.46	1.1684	92.8	1374.307	27.486
470	0.47	1.1938	97.4	1442.430	28.849

480	0.48	1.2192	102	1510.553	30.211
490	0.49	1.2446	106.8	1581.638	31.633
500	0.5	1.27	111.2	1646.799	32.936
510	0.51	1.2954	115.4	1708.998	34.180
520	0.52	1.3208	119.7	1772.678	35.454
530	0.53	1.3462	123.1	1823.030	36.461
540	0.54	1.3716	126.8	1877.824	37.556
550	0.55	1.397	128	1895.596	37.912
560	0.56	1.4224	129.3	1914.848	38.297
570	0.57	1.4478	134.7	1994.818	39.896
580	0.58	1.4732	136.9	2027.399	40.548
590	0.59	1.4986	143.7	2128.102	42.562
600	0.6	1.524	144.1	2134.026	42.681
610	0.61	1.5494	145.8	2159.202	43.184
620	0.62	1.5748	152	2251.020	45.020
630	0.63	1.6002	157.5	2332.471	46.649
640	0.64	1.6256	162	2399.113	47.982
650	0.65	1.651	166	2458.350	49.167
660	0.66	1.6764	170	2517.588	50.352
670	0.67	1.7018	174	2576.825	51.537
680	0.68	1.7272	177.9	2634.582	52.692
690	0.69	1.7526	181	2680.491	53.610
700	0.7	1.778	184	2724.919	54.498
710	0.71	1.8034	187	2769.347	55.387
720	0.72	1.8288	190.5	2821.179	56.424
730	0.73	1.8542	192.7	2853.760	57.075
740	0.74	1.8796	192.9	2856.722	57.134
750	0.75	1.905	193	2858.203	57.164
760	0.76	1.9304	199.5	2954.463	59.089
770	0.77	1.9558	203.9	3019.624	60.392
780	0.78	1.9812	207.2	3068.495	61.370
790	0.79	2.0066	210.3	3114.404	62.288
800	0.8	2.032	213.7	3164.756	63.295
810	0.81	2.0574	216.5	3206.222	64.124
820	0.82	2.0828	218.3	3232.879	64.658
830	0.83	2.1082	223.6	3311.368	66.227
840	0.84	2.1336	227.5	3369.125	67.382
850	0.85	2.159	230	3406.148	68.123
860	0.86	2.1844	224	3317.292	66.346
870	0.87	2.2098	217.5	3221.031	64.421

880	0.88	2.2352	215.3	3188.451	63.769
890	0.89	2.2606	210.9	3123.290	62.466
900	0.9	2.286	208.5	3087.747	61.755
910	0.91	2.3114	202.7	3001.853	60.037
920	0.92	2.3368	198.8	2944.097	58.882
930	0.93	2.3622	196.7	2912.997	58.260
940	0.94	2.3876	194.5	2880.417	57.608
950	0.95	2.413	191.2	2831.546	56.631

Sumber : Hasil uji di laboratorium

- Hasil Pengujian Pemodelan Lereng Pada Spasi 2 Cm Dengan Variasi Panjang Geotextile 20 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm ²
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TEBAL 2 CM, PANJANG GEOTEXTILE 20 CM

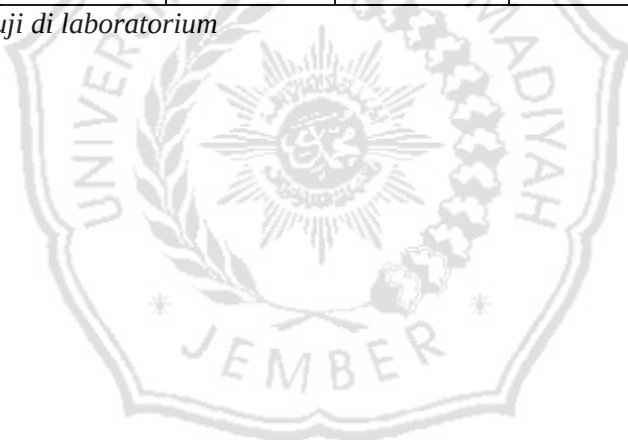
Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm ²)
0	0	0	0	0	0
10	0.01	0.0254	1.2	17.771	0.355
20	0.02	0.0508	2	29.619	0.592
30	0.03	0.0762	2.5	37.023	0.740
40	0.04	0.1016	3.2	47.390	0.948
50	0.05	0.127	4	59.237	1.185
60	0.06	0.1524	4.2	62.199	1.244
70	0.07	0.1778	5	74.047	1.481
80	0.08	0.2032	6	88.856	1.777

90	0.09	0.2286	7.4	109.589	2.192
100	0.1	0.254	8.4	124.398	2.488
110	0.11	0.2794	9.8	145.132	2.903
120	0.12	0.3048	11	162.903	3.258
130	0.13	0.3302	12.5	185.117	3.702
140	0.14	0.3556	14	207.331	4.147
150	0.15	0.381	15.6	231.026	4.621
160	0.16	0.4064	17.8	263.606	5.272
170	0.17	0.4318	19.5	288.782	5.776
180	0.18	0.4572	21.8	322.844	6.457
190	0.19	0.4826	23.8	352.462	7.049
200	0.2	0.508	26	385.043	7.701
210	0.21	0.5334	28	414.662	8.293
220	0.22	0.5588	30.5	451.685	9.034
230	0.23	0.5842	32.8	485.746	9.715
240	0.24	0.6096	35.2	521.289	10.426
250	0.25	0.635	37.5	555.350	11.107
260	0.26	0.6604	40	592.374	11.847
270	0.27	0.6858	42.6	630.878	12.618
280	0.28	0.7112	45	666.420	13.328
290	0.29	0.7366	47	696.039	13.921
300	0.3	0.762	50	740.467	14.809
310	0.31	0.7874	53	784.895	15.698
320	0.32	0.8128	55.6	823.399	16.468
330	0.33	0.8382	58.8	870.789	17.416
340	0.34	0.8636	61.8	915.217	18.304
350	0.35	0.889	64.8	959.645	19.193
360	0.36	0.9144	67.9	1005.554	20.111
370	0.37	0.9398	71	1051.463	21.029
380	0.38	0.9652	74.2	1098.853	21.977
390	0.39	0.9906	77	1140.319	22.806
400	0.4	1.016	80.2	1187.709	23.754
410	0.41	1.0414	82	1214.366	24.287
420	0.42	1.0668	86	1273.603	25.472
430	0.43	1.0922	89.4	1323.955	26.479
440	0.44	1.1176	92	1362.459	27.249
450	0.45	1.143	94.8	1403.925	28.079
460	0.46	1.1684	95.8	1418.735	28.375
470	0.47	1.1938	100	1480.934	29.619
480	0.48	1.2192	104	1540.171	30.803

490	0.49	1.2446	107.6	1593.485	31.870
500	0.5	1.27	111.8	1655.684	33.114
510	0.51	1.2954	115.2	1706.036	34.121
520	0.52	1.3208	118.8	1759.350	35.187
530	0.53	1.3462	122	1806.739	36.135
540	0.54	1.3716	125.2	1854.129	37.083
550	0.55	1.397	129.8	1922.252	38.445
560	0.56	1.4224	133	1969.642	39.393
570	0.57	1.4478	133	1969.642	39.393
580	0.58	1.4732	137.2	2031.841	40.637
590	0.59	1.4986	138	2043.689	40.874
600	0.6	1.524	145	2147.354	42.947
610	0.61	1.5494	150	2221.401	44.428
620	0.62	1.5748	153.8	2277.677	45.554
630	0.63	1.6002	157.2	2328.028	46.561
640	0.64	1.6256	159.2	2357.647	47.153
650	0.65	1.651	162.4	2405.037	48.101
660	0.66	1.6764	164.2	2431.694	48.634
670	0.67	1.7018	170.2	2520.550	50.411
680	0.68	1.7272	175.4	2597.558	51.951
690	0.69	1.7526	180	2665.681	53.314
700	0.7	1.778	185	2739.728	54.795
710	0.71	1.8034	189.4	2804.889	56.098
720	0.72	1.8288	194	2873.012	57.460
730	0.73	1.8542	198	2932.249	58.645
740	0.74	1.8796	202	2991.487	59.830
750	0.75	1.905	205	3035.915	60.718
760	0.76	1.9304	207	3065.533	61.311
770	0.77	1.9558	211	3124.771	62.495
780	0.78	1.9812	218	3228.436	64.569
790	0.79	2.0066	221.8	3284.712	65.694
800	0.8	2.032	225.2	3335.063	66.701
810	0.81	2.0574	238	3524.623	70.492
820	0.82	2.0828	239	3539.432	70.789
830	0.83	2.1082	248.8	3684.564	73.691
840	0.84	2.1336	259	3835.619	76.712
850	0.85	2.159	262.5	3887.452	77.749
860	0.86	2.1844	264.8	3921.513	78.430
870	0.87	2.2098	266	3939.284	78.786
880	0.88	2.2352	268	3968.903	79.378

890	0.89	2.2606	270	3998.522	79.970
900	0.9	2.286	275	4072.569	81.451
910	0.91	2.3114	278	4116.997	82.340
920	0.92	2.3368	281.8	4173.272	83.465
930	0.93	2.3622	284	4205.853	84.117
940	0.94	2.3876	286	4235.471	84.709
950	0.95	2.413	287.2	4253.242	85.065
960	0.96	2.4384	284.4	4211.776	84.236
970	0.97	2.4638	281.2	4164.386	83.288
980	0.98	2.4892	278.5	4124.401	82.488
990	0.99	2.5146	275.1	4074.049	81.481
1000	1	2.54	272.1	4029.621	80.592
1010	1.01	2.5654	269.2	3986.674	79.733
1020	1.02	2.5908	266.9	3952.613	79.052
1030	1.03	2.6162	264.3	3914.109	78.282
1040	1.04	2.6416	261.8	3877.085	77.542
1050	1.05	2.667	257.8	3817.848	76.357

Sumber : Hasil uji di laboratorium



Lampiran 10. Hasil Pengujian Pemodelan Lereng Pada Spasi 3 Cm

- Hasil Pengujian Pemodelan Lereng Pada Spasi 3 Cm Dengan Variasi Panjang Geotextile 10 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm ²
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TEBAL 3 CM, PANJANG GEOTEXTILE 10 CM

Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm ²)
0	0	0	0	0.000	0.000
10	0.01	0.0254	1	14.809	0.296
20	0.02	0.0508	1.9	28.138	0.563
30	0.03	0.0762	2.2	32.581	0.652
40	0.04	0.1016	2.9	42.947	0.859
50	0.05	0.127	3.9	57.756	1.155
60	0.06	0.1524	5	74.047	1.481
70	0.07	0.1778	6.1	90.337	1.807

80	0.08	0.2032	7.7	114.032	2.281
90	0.09	0.2286	9.1	134.765	2.695
100	0.1	0.254	10.8	159.941	3.199
110	0.11	0.2794	12.2	180.674	3.613
120	0.12	0.3048	13.8	204.369	4.087
130	0.13	0.3302	15.4	228.064	4.561
140	0.14	0.3556	17	251.759	5.035
150	0.15	0.381	19	281.377	5.628
160	0.16	0.4064	21	310.996	6.220
170	0.17	0.4318	23	340.615	6.812
180	0.18	0.4572	25	370.234	7.405
190	0.19	0.4826	27	399.852	7.997
200	0.2	0.508	29	429.471	8.589
210	0.21	0.5334	31.2	462.051	9.241
220	0.22	0.5588	33.8	500.556	10.011
230	0.23	0.5842	36	533.136	10.663
240	0.24	0.6096	37.9	561.274	11.225
250	0.25	0.635	40.6	601.259	12.025
260	0.26	0.6604	43	636.802	12.736
270	0.27	0.6858	45.4	672.344	13.447
280	0.28	0.7112	48.2	713.810	14.276
290	0.29	0.7366	50.2	743.429	14.869
300	0.3	0.762	53	784.895	15.698
310	0.31	0.7874	55	814.514	16.290
320	0.32	0.8128	57.1	845.613	16.912
330	0.33	0.8382	59.3	878.194	17.564
340	0.34	0.8636	62	918.179	18.364
350	0.35	0.889	64.4	953.722	19.074
360	0.36	0.9144	65.5	970.012	19.400
370	0.37	0.9398	68	1007.035	20.141
380	0.38	0.9652	70.2	1039.616	20.792
390	0.39	0.9906	72.5	1073.677	21.474
400	0.4	1.016	74	1095.891	21.918
410	0.41	1.0414	75.6	1119.586	22.392
420	0.42	1.0668	76.8	1137.357	22.747
430	0.43	1.0922	78	1155.129	23.103
440	0.44	1.1176	79.8	1181.785	23.636
450	0.45	1.143	80.4	1190.671	23.813
460	0.46	1.1684	81.8	1211.404	24.228
470	0.47	1.1938	82.4	1220.290	24.406

480	0.48	1.2192	82.2	1217.328	24.347
490	0.49	1.2446	81.9	1212.885	24.258
500	0.5	1.27	79.8	1181.785	23.636
510	0.51	1.2954	78.1	1156.609	23.132
520	0.52	1.3208	75.5	1118.105	22.362
530	0.53	1.3462	73.8	1092.929	21.859
540	0.54	1.3716	71.2	1054.425	21.089
550	0.55	1.397	68	1007.035	20.141
560	0.56	1.4224	65.2	965.569	19.311
570	0.57	1.4478	63.8	944.836	18.897

Sumber : Hasil uji di laboratorium

- Hasil Pengujian Pemodelan Lereng Pada Spasi 3 Cm Dengan Variasi Panjang Geotextile 15 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm ²
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TEBAL 3 CM, PANJANG GEOTEXTILE 15 CM

Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm ²)
0	0	0	0	0.000	0.000
10	0.01	0.0254	0.8	11.847	0.237
20	0.02	0.0508	1	14.809	0.296
30	0.03	0.0762	1.4	20.733	0.415
40	0.04	0.1016	2	29.619	0.592
50	0.05	0.127	2.5	37.023	0.740
60	0.06	0.1524	3.2	47.390	0.948
70	0.07	0.1778	4	59.237	1.185
80	0.08	0.2032	4.8	71.085	1.422

90	0.09	0.2286	5.7	84.413	1.688
100	0.1	0.254	6.6	97.742	1.955
110	0.11	0.2794	7.5	111.070	2.221
120	0.12	0.3048	8.8	130.322	2.606
130	0.13	0.3302	10	148.093	2.962
140	0.14	0.3556	11.5	170.307	3.406
150	0.15	0.381	13	192.521	3.850
160	0.16	0.4064	15	222.140	4.443
170	0.17	0.4318	16.8	248.797	4.976
180	0.18	0.4572	18.2	269.530	5.391
190	0.19	0.4826	20.1	297.668	5.953
200	0.2	0.508	22	325.805	6.516
210	0.21	0.5334	23.6	349.500	6.990
220	0.22	0.5588	25.4	376.157	7.523
230	0.23	0.5842	27.6	408.738	8.175
240	0.24	0.6096	29	429.471	8.589
250	0.25	0.635	30.8	456.128	9.123
260	0.26	0.6604	32	473.899	9.478
270	0.27	0.6858	34.2	506.479	10.130
280	0.28	0.7112	36	533.136	10.663
290	0.29	0.7366	38.8	574.602	11.492
300	0.3	0.762	40.1	593.855	11.877
310	0.31	0.7874	43	636.802	12.736
320	0.32	0.8128	44.8	663.458	13.269
330	0.33	0.8382	47	696.039	13.921
340	0.34	0.8636	49	725.658	14.513
350	0.35	0.889	51	755.276	15.106
360	0.36	0.9144	53	784.895	15.698
370	0.37	0.9398	54.8	811.552	16.231
380	0.38	0.9652	56.8	841.171	16.823
390	0.39	0.9906	59	873.751	17.475
400	0.4	1.016	61	903.370	18.067
410	0.41	1.0414	63.2	935.950	18.719
420	0.42	1.0668	65	962.607	19.252
430	0.43	1.0922	68	1007.035	20.141
440	0.44	1.1176	70	1036.654	20.733
450	0.45	1.143	72.2	1069.234	21.385
460	0.46	1.1684	74.2	1098.853	21.977
470	0.47	1.1938	77	1140.319	22.806
480	0.48	1.2192	78.8	1166.976	23.340

490	0.49	1.2446	80	1184.747	23.695
500	0.5	1.27	83.8	1241.023	24.820
510	0.51	1.2954	86	1273.603	25.472
520	0.52	1.3208	88.8	1315.069	26.301
530	0.53	1.3462	90	1332.841	26.657
540	0.54	1.3716	93	1377.269	27.545
550	0.55	1.397	95.7	1417.254	28.345
560	0.56	1.4224	98.2	1454.277	29.086
570	0.57	1.4478	101	1495.743	29.915
580	0.58	1.4732	103	1525.362	30.507
590	0.59	1.4986	105.5	1562.385	31.248
600	0.6	1.524	108	1599.409	31.988
610	0.61	1.5494	111.2	1646.799	32.936
620	0.62	1.5748	113	1673.455	33.469
630	0.63	1.6002	115.8	1714.922	34.298
640	0.64	1.6256	118.2	1750.464	35.009
650	0.65	1.651	122	1806.739	36.135
660	0.66	1.6764	124.8	1848.206	36.964
670	0.67	1.7018	128	1895.596	37.912
680	0.68	1.7272	130.8	1937.062	38.741
690	0.69	1.7526	134	1984.452	39.689
700	0.7	1.778	136.8	2025.918	40.518
710	0.71	1.8034	139.8	2070.346	41.407
720	0.72	1.8288	143	2117.736	42.355
730	0.73	1.8542	146.7	2172.530	43.451
740	0.74	1.8796	149	2206.592	44.132
750	0.75	1.905	152	2251.020	45.020
760	0.76	1.9304	154.2	2283.600	45.672
770	0.77	1.9558	158	2339.876	46.798
780	0.78	1.9812	162.2	2402.075	48.041
790	0.79	2.0066	166.8	2470.198	49.404
800	0.8	2.032	170.5	2524.992	50.500
810	0.81	2.0574	175	2591.635	51.833
820	0.82	2.0828	178.2	2639.024	52.780
830	0.83	2.1082	182	2695.300	53.906
840	0.84	2.1336	186.2	2757.499	55.150
850	0.85	2.159	189	2798.965	55.979
860	0.86	2.1844	193.5	2865.607	57.312
870	0.87	2.2098	198	2932.249	58.645
880	0.88	2.2352	202	2991.487	59.830

890	0.89	2.2606	195	2887.821	57.756
900	0.9	2.286	192.5	2850.798	57.016
910	0.91	2.3114	188.7	2794.522	55.890
920	0.92	2.3368	183.2	2713.071	54.261
930	0.93	2.3622	178.3	2640.505	52.810
940	0.94	2.3876	170.6	2526.473	50.529
950	0.95	2.413	166.3	2462.793	49.256
960	0.96	2.4384	162.1	2400.594	48.012
970	0.97	2.4638	158.2	2342.838	46.857
980	0.98	2.4892	154.7	2291.005	45.820

Sumber : Hasil uji di laboratorium

- Hasil Pengujian Pemodelan Lereng Pada Spasi 3 Cm Dengan Variasi Panjang

Geotextile 20 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm ²
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TEBAL 3 CM, PANJANG GEOTEXTILE 20 CM

Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm ²)
0	0	0	0	0	0
10	0.01	0.0254	0.9	13.328	0.267
20	0.02	0.0508	1.2	17.771	0.355
30	0.03	0.0762	1.7	25.176	0.504
40	0.04	0.1016	2.3	34.061	0.681
50	0.05	0.127	3.1	45.909	0.918
60	0.06	0.1524	3.8	56.275	1.126
70	0.07	0.1778	4.4	65.161	1.303
80	0.08	0.2032	5.5	81.451	1.629
90	0.09	0.2286	6.5	96.261	1.925

100	0.1	0.254	8	118.475	2.369
110	0.11	0.2794	9.1	134.765	2.695
120	0.12	0.3048	10	148.093	2.962
130	0.13	0.3302	11.2	165.865	3.317
140	0.14	0.3556	13.1	194.002	3.880
150	0.15	0.381	14.8	219.178	4.384
160	0.16	0.4064	16.3	241.392	4.828
170	0.17	0.4318	18	266.568	5.331
180	0.18	0.4572	19.8	293.225	5.864
190	0.19	0.4826	21.6	319.882	6.398
200	0.2	0.508	23.8	352.462	7.049
210	0.21	0.5334	25.5	377.638	7.553
220	0.22	0.5588	27.9	413.181	8.264
230	0.23	0.5842	29.4	435.395	8.708
240	0.24	0.6096	31.4	465.013	9.300
250	0.25	0.635	33.2	491.670	9.833
260	0.26	0.6604	35	518.327	10.367
270	0.27	0.6858	37	547.946	10.959
280	0.28	0.7112	38.8	574.602	11.492
290	0.29	0.7366	41.1	608.664	12.173
300	0.3	0.762	42	621.992	12.440
310	0.31	0.7874	45.5	673.825	13.476
320	0.32	0.8128	47.6	704.925	14.098
330	0.33	0.8382	50	740.467	14.809
340	0.34	0.8636	52.6	778.971	15.579
350	0.35	0.889	55.8	826.361	16.527
360	0.36	0.9144	58	858.942	17.179
370	0.37	0.9398	60.2	891.522	17.830
380	0.38	0.9652	63.1	934.469	18.689
390	0.39	0.9906	65.6	971.493	19.430
400	0.4	1.016	68	1007.035	20.141
410	0.41	1.0414	70.5	1044.058	20.881
420	0.42	1.0668	73	1081.082	21.622
430	0.43	1.0922	75	1110.701	22.214
440	0.44	1.1176	77.4	1146.243	22.925
450	0.45	1.143	79.8	1181.785	23.636
460	0.46	1.1684	82	1214.366	24.287
470	0.47	1.1938	84.8	1255.832	25.117
480	0.48	1.2192	88.6	1312.108	26.242
490	0.49	1.2446	90	1332.841	26.657

500	0.5	1.27	92	1362.459	27.249
510	0.51	1.2954	95.2	1409.849	28.197
520	0.52	1.3208	97.1	1437.987	28.760
530	0.53	1.3462	101	1495.743	29.915
540	0.54	1.3716	103.2	1528.324	30.566
550	0.55	1.397	106	1569.790	31.396
560	0.56	1.4224	109	1614.218	32.284
570	0.57	1.4478	112	1658.646	33.173
580	0.58	1.4732	115	1703.074	34.061
590	0.59	1.4986	118.2	1750.464	35.009
600	0.6	1.524	122.2	1809.701	36.194
610	0.61	1.5494	125	1851.168	37.023
620	0.62	1.5748	127.5	1888.191	37.764
630	0.63	1.6002	130	1925.214	38.504
640	0.64	1.6256	133	1969.642	39.393
650	0.65	1.651	135.5	2006.666	40.133
660	0.66	1.6764	138.6	2052.575	41.051
670	0.67	1.7018	141.8	2099.964	41.999
680	0.68	1.7272	145	2147.354	42.947
690	0.69	1.7526	149	2206.592	44.132
700	0.7	1.778	152.1	2252.501	45.050
710	0.71	1.8034	156	2310.257	46.205
720	0.72	1.8288	159.8	2366.533	47.331
730	0.73	1.8542	164	2428.732	48.575
740	0.74	1.8796	167.5	2480.564	49.611
750	0.75	1.905	172	2547.206	50.944
760	0.76	1.9304	173	2562.016	51.240
770	0.77	1.9558	175	2591.635	51.833
780	0.78	1.9812	179.5	2658.277	53.166
790	0.79	2.0066	182	2695.300	53.906
800	0.8	2.032	188	2784.156	55.683
810	0.81	2.0574	190.2	2816.736	56.335
820	0.82	2.0828	196	2902.631	58.053
830	0.83	2.1082	199	2947.059	58.941
840	0.84	2.1336	205	3035.915	60.718
850	0.85	2.159	210.5	3117.366	62.347
860	0.86	2.1844	215.8	3195.856	63.917
870	0.87	2.2098	217	3213.627	64.273
880	0.88	2.2352	223	3302.483	66.050
890	0.89	2.2606	226	3346.911	66.938

900	0.9	2.286	231.5	3428.362	68.567
910	0.91	2.3114	234	3465.386	69.308
920	0.92	2.3368	231	3420.958	68.419
930	0.93	2.3622	226.5	3354.316	67.086
940	0.94	2.3876	220	3258.055	65.161
950	0.95	2.413	213.8	3166.237	63.325
960	0.96	2.4384	210.2	3112.923	62.258
970	0.97	2.4638	208.5	3087.747	61.755
980	0.98	2.4892	204	3021.105	60.422
990	0.99	2.5146	200.5	2969.273	59.385
1000	1	2.54	198	2932.249	58.645
1010	1.01	2.5654	196	2902.631	58.053

Sumber : Hasil uji di laboratorium

Lampiran 11. Hasil Pengujian Pemodelan Lereng Pada Spasi 4 Cm

- Hasil Pengujian Pemodelan Lereng Pada Spasi 4 Cm Dengan Variasi Panjang Geotextile 10 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm ²
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TEBAL 4 CM, PANJANG GEOTEXTILE 10 CM

Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm ²)
0	0	0	0	0	0
10	0.01	0.0254	1.7	25.176	0.504
20	0.02	0.0508	2.1	31.100	0.622
30	0.03	0.0762	3.1	45.909	0.918
40	0.04	0.1016	4	59.237	1.185
50	0.05	0.127	4.9	72.566	1.451
60	0.06	0.1524	5.8	85.894	1.718

70	0.07	0.1778	7	103.665	2.073
80	0.08	0.2032	8	118.475	2.369
90	0.09	0.2286	9.2	136.246	2.725
100	0.1	0.254	10.3	152.536	3.051
110	0.11	0.2794	11.8	174.750	3.495
120	0.12	0.3048	13	192.521	3.850
130	0.13	0.3302	14.2	210.293	4.206
140	0.14	0.3556	16.3	241.392	4.828
150	0.15	0.381	18.1	268.049	5.361
160	0.16	0.4064	19.7	291.744	5.835
170	0.17	0.4318	20.6	305.072	6.101
180	0.18	0.4572	21.8	322.844	6.457
190	0.19	0.4826	22.8	337.653	6.753
200	0.2	0.508	23.7	350.981	7.020
210	0.21	0.5334	24.7	365.791	7.316
220	0.22	0.5588	25.8	382.081	7.642
230	0.23	0.5842	26.5	392.448	7.849
240	0.24	0.6096	27	399.852	7.997
250	0.25	0.635	28.3	419.104	8.382
260	0.26	0.6604	29.2	432.433	8.649
270	0.27	0.6858	30	444.280	8.886
280	0.28	0.7112	31.2	462.051	9.241
290	0.29	0.7366	31.9	472.418	9.448
300	0.3	0.762	32.8	485.746	9.715
310	0.31	0.7874	33.5	496.113	9.922
320	0.32	0.8128	34.3	507.960	10.159
330	0.33	0.8382	35	518.327	10.367
340	0.34	0.8636	35.6	527.213	10.544
350	0.35	0.889	36.1	534.617	10.692
360	0.36	0.9144	36.5	540.541	10.811
370	0.37	0.9398	37	547.946	10.959
380	0.38	0.9652	37.1	549.427	10.989
390	0.39	0.9906	37.1	549.427	10.989
400	0.4	1.016	37.2	550.907	11.018
410	0.41	1.0414	36.9	546.465	10.929
420	0.42	1.0668	36.4	539.060	10.781
430	0.43	1.0922	36.1	534.617	10.692
440	0.44	1.1176	35.8	530.174	10.603
450	0.45	1.143	35.8	530.174	10.603
460	0.46	1.1684	35.6	527.213	10.544

470	0.47	1.1938	35.3	522.770	10.455
480	0.48	1.2192	34.9	516.846	10.337
490	0.49	1.2446	34.4	509.441	10.189
500	0.5	1.27	34.1	504.998	10.100

Sumber : Hasil uji di laboratorium

- Hasil Pengujian Pemodelan Lereng Pada Spasi 4 Cm Dengan Variasi Panjang Geotextile 15 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm ²
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TEBAL 4 CM, PANJANG GEOTEXTILE 15 CM

Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm ²)
0	0	0	0	0	0
10	0.01	0.0254	0.8	11.847	0.237
20	0.02	0.0508	1.2	17.771	0.355
30	0.03	0.0762	1.5	22.214	0.444
40	0.04	0.1016	1.5	22.214	0.444
50	0.05	0.127	1.5	22.214	0.444
60	0.06	0.1524	1.5	22.214	0.444
70	0.07	0.1778	2	29.619	0.592
80	0.08	0.2032	2.5	37.023	0.740
90	0.09	0.2286	3.2	47.390	0.948

100	0.1	0.254	3.8	56.275	1.126
110	0.11	0.2794	4.8	71.085	1.422
120	0.12	0.3048	5.8	85.894	1.718
130	0.13	0.3302	6.8	100.704	2.014
140	0.14	0.3556	7.8	115.513	2.310
150	0.15	0.381	8.8	130.322	2.606
160	0.16	0.4064	10.5	155.498	3.110
170	0.17	0.4318	11.7	173.269	3.465
180	0.18	0.4572	13.2	195.483	3.910
190	0.19	0.4826	15	222.140	4.443
200	0.2	0.508	17	251.759	5.035
210	0.21	0.5334	19	281.377	5.628
220	0.22	0.5588	21	310.996	6.220
230	0.23	0.5842	22.8	337.653	6.753
240	0.24	0.6096	24.5	362.829	7.257
250	0.25	0.635	26.6	393.928	7.879
260	0.26	0.6604	28.6	423.547	8.471
270	0.27	0.6858	30.5	451.685	9.034
280	0.28	0.7112	32.5	481.304	9.626
290	0.29	0.7366	34.4	509.441	10.189
300	0.3	0.762	36.5	540.541	10.811
310	0.31	0.7874	38.7	573.121	11.462
320	0.32	0.8128	41	607.183	12.144
330	0.33	0.8382	43	636.802	12.736
340	0.34	0.8636	45.6	675.306	13.506
350	0.35	0.889	47.5	703.444	14.069
360	0.36	0.9144	49.5	733.062	14.661
370	0.37	0.9398	52	770.086	15.402
380	0.38	0.9652	54.2	802.666	16.053
390	0.39	0.9906	57.2	847.094	16.942
400	0.4	1.016	60	888.560	17.771
410	0.41	1.0414	62	918.179	18.364
420	0.42	1.0668	65.5	970.012	19.400
430	0.43	1.0922	70	1036.654	20.733
440	0.44	1.1176	72.9	1079.601	21.592
450	0.45	1.143	75	1110.701	22.214
460	0.46	1.1684	77.2	1143.281	22.866
470	0.47	1.1938	78.7	1165.495	23.310
480	0.48	1.2192	81	1199.557	23.991
490	0.49	1.2446	82	1214.366	24.287

500	0.5	1.27	85.2	1261.756	25.235
510	0.51	1.2954	87.5	1295.817	25.916
520	0.52	1.3208	89	1318.031	26.361
530	0.53	1.3462	91.5	1355.055	27.101
540	0.54	1.3716	93.9	1390.597	27.812
550	0.55	1.397	95.8	1418.735	28.375
560	0.56	1.4224	98.2	1454.277	29.086
570	0.57	1.4478	100.2	1483.896	29.678
580	0.58	1.4732	102.5	1517.957	30.359
590	0.59	1.4986	104.8	1552.019	31.040
600	0.6	1.524	107.8	1596.447	31.929
610	0.61	1.5494	110.5	1636.432	32.729
620	0.62	1.5748	113	1673.455	33.469
630	0.63	1.6002	115.2	1706.036	34.121
640	0.64	1.6256	117	1732.693	34.654
650	0.65	1.651	118.8	1759.350	35.187
660	0.66	1.6764	120.5	1784.525	35.691
670	0.67	1.7018	122.3	1811.182	36.224
680	0.68	1.7272	123.8	1833.396	36.668
690	0.69	1.7526	125.6	1860.053	37.201
700	0.7	1.778	127.5	1888.191	37.764
710	0.71	1.8034	129.1	1911.886	38.238
720	0.72	1.8288	131.1	1941.504	38.830
730	0.73	1.8542	132.8	1966.680	39.334
740	0.74	1.8796	135	1999.261	39.985
750	0.75	1.905	137.2	2031.841	40.637
760	0.76	1.9304	139.1	2059.979	41.200
770	0.77	1.9558	141.5	2095.522	41.910
780	0.78	1.9812	144.1	2134.026	42.681
790	0.79	2.0066	146.2	2165.126	43.303
800	0.8	2.032	148.2	2194.744	43.895
810	0.81	2.0574	150	2221.401	44.428
820	0.82	2.0828	152	2251.020	45.020
830	0.83	2.1082	153.7	2276.196	45.524
840	0.84	2.1336	155.5	2302.852	46.057
850	0.85	2.159	156.8	2322.105	46.442
860	0.86	2.1844	158.7	2350.242	47.005
870	0.87	2.2098	159.5	2362.090	47.242
880	0.88	2.2352	156.5	2317.662	46.353
890	0.89	2.2606	155.5	2302.852	46.057

900	0.9	2.286	150.5	2228.806	44.576
910	0.91	2.3114	139.3	2062.941	41.259
920	0.92	2.3368	138.5	2051.094	41.022
930	0.93	2.3622	137	2028.880	40.578
940	0.94	2.3876	136.2	2017.032	40.341
950	0.95	2.413	133.9	1982.971	39.659
960	0.96	2.4384	132	1954.833	39.097
970	0.97	2.4638	131.2	1942.985	38.860

Sumber : Hasil uji di laboratorium

- Hasil Pengujian Pemodelan Lereng Pada Spasi 4 Cm Dengan Variasi Panjang

Geotextile 20 Cm

Faktor Kalibrasi	lbf	kgf
	32.6917	14.8093401

Luas Pondasi	panjang	5	Luasan	50	cm2
	lebar	10			

Pengali Penurunan	0.001
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PENGUJIAN SAMPEL TEBAL 4 CM, PANJANG GEOTEXTILE 20 CM

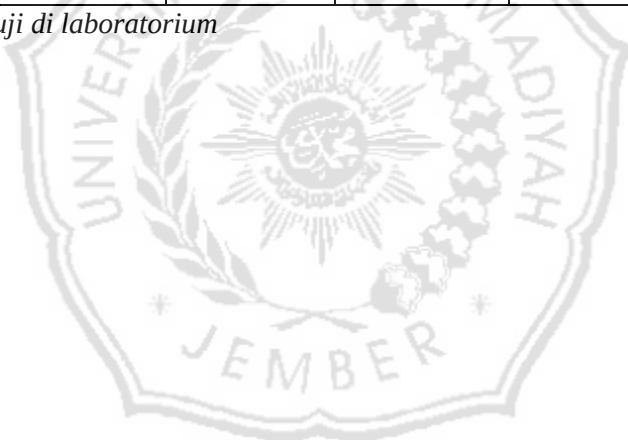
Pembacaan Arloji	Penurunan	Penurunan	Pembacaan Dial	Beban	Tegangan
	(inch)	(cm)		(kgf)	(kgf/cm2)
0	0	0	0	0	0
10	0.01	0.0254	0.2	2.962	0.059
20	0.02	0.0508	0.4	5.924	0.118
30	0.03	0.0762	0.5	7.405	0.148
40	0.04	0.1016	0.9	13.328	0.267
50	0.05	0.127	1	14.809	0.296
60	0.06	0.1524	1.3	19.252	0.385
70	0.07	0.1778	1.7	25.176	0.504
80	0.08	0.2032	2	29.619	0.592
90	0.09	0.2286	2	29.619	0.592
100	0.1	0.254	2.7	39.985	0.800

110	0.11	0.2794	4	59.237	1.185
120	0.12	0.3048	4.8	71.085	1.422
130	0.13	0.3302	6	88.856	1.777
140	0.14	0.3556	7.2	106.627	2.133
150	0.15	0.381	8.8	130.322	2.606
160	0.16	0.4064	10.2	151.055	3.021
170	0.17	0.4318	12.2	180.674	3.613
180	0.18	0.4572	14.2	210.293	4.206
190	0.19	0.4826	16.4	242.873	4.857
200	0.2	0.508	18.3	271.011	5.420
210	0.21	0.5334	20	296.187	5.924
220	0.22	0.5588	22.1	327.286	6.546
230	0.23	0.5842	24.3	359.867	7.197
240	0.24	0.6096	25.7	380.600	7.612
250	0.25	0.635	27.7	410.219	8.204
260	0.26	0.6604	29.4	435.395	8.708
270	0.27	0.6858	32.2	476.861	9.537
280	0.28	0.7112	34.1	504.998	10.100
290	0.29	0.7366	37.1	549.427	10.989
300	0.3	0.762	40	592.374	11.847
310	0.31	0.7874	43	636.802	12.736
320	0.32	0.8128	47.2	699.001	13.980
330	0.33	0.8382	50	740.467	14.809
340	0.34	0.8636	55	814.514	16.290
350	0.35	0.889	60	888.560	17.771
360	0.36	0.9144	63	932.988	18.660
370	0.37	0.9398	65	962.607	19.252
380	0.38	0.9652	68.7	1017.402	20.348
390	0.39	0.9906	71.9	1064.792	21.296
400	0.4	1.016	74.8	1107.739	22.155
410	0.41	1.0414	77.8	1152.167	23.043
420	0.42	1.0668	80	1184.747	23.695
430	0.43	1.0922	82	1214.366	24.287
440	0.44	1.1176	85.1	1260.275	25.205
450	0.45	1.143	87.7	1298.779	25.976
460	0.46	1.1684	90	1332.841	26.657
470	0.47	1.1938	92	1362.459	27.249
480	0.48	1.2192	94.2	1395.040	27.901
490	0.49	1.2446	95.5	1414.292	28.286
500	0.5	1.27	98	1451.315	29.026

510	0.51	1.2954	100	1480.934	29.619
520	0.52	1.3208	101.7	1506.110	30.122
530	0.53	1.3462	103.5	1532.767	30.655
540	0.54	1.3716	105.5	1562.385	31.248
550	0.55	1.397	108	1599.409	31.988
560	0.56	1.4224	110.6	1637.913	32.758
570	0.57	1.4478	113.2	1676.417	33.528
580	0.58	1.4732	116	1717.883	34.358
590	0.59	1.4986	118.1	1748.983	34.980
600	0.6	1.524	121.2	1794.892	35.898
610	0.61	1.5494	123.3	1825.992	36.520
620	0.62	1.5748	125.5	1858.572	37.171
630	0.63	1.6002	127.8	1892.634	37.853
640	0.64	1.6256	129.8	1922.252	38.445
650	0.65	1.651	132	1954.833	39.097
660	0.66	1.6764	133.8	1981.490	39.630
670	0.67	1.7018	136.2	2017.032	40.341
680	0.68	1.7272	138.5	2051.094	41.022
690	0.69	1.7526	141	2088.117	41.762
700	0.7	1.778	143	2117.736	42.355
710	0.71	1.8034	145.2	2150.316	43.006
720	0.72	1.8288	147	2176.973	43.539
730	0.73	1.8542	149	2206.592	44.132
740	0.74	1.8796	150.5	2228.806	44.576
750	0.75	1.905	152.9	2264.348	45.287
760	0.76	1.9304	155	2295.448	45.909
770	0.77	1.9558	157	2325.066	46.501
780	0.78	1.9812	160	2369.494	47.390
790	0.79	2.0066	162.1	2400.594	48.012
800	0.8	2.032	164	2428.732	48.575
810	0.81	2.0574	165	2443.541	48.871
820	0.82	2.0828	168	2487.969	49.759
830	0.83	2.1082	170.2	2520.550	50.411
840	0.84	2.1336	172.2	2550.168	51.003
850	0.85	2.159	174	2576.825	51.537
860	0.86	2.1844	175.5	2599.039	51.981
870	0.87	2.2098	176.8	2618.291	52.366
880	0.88	2.2352	178.5	2643.467	52.869
890	0.89	2.2606	180.1	2667.162	53.343
900	0.9	2.286	181	2680.491	53.610

910	0.91	2.3114	181	2680.491	53.610
920	0.92	2.3368	184.8	2736.766	54.735
930	0.93	2.3622	187.8	2781.194	55.624
940	0.94	2.3876	189	2798.965	55.979
950	0.95	2.413	191.8	2840.431	56.809
960	0.96	2.4384	193.8	2870.050	57.401
970	0.97	2.4638	194.8	2884.859	57.697
980	0.98	2.4892	192.2	2846.355	56.927
990	0.99	2.5146	186.8	2766.385	55.328
1000	1	2.54	182	2695.300	53.906
1010	1.01	2.5654	175	2591.635	51.833
1020	1.02	2.5908	172.8	2559.054	51.181
1030	1.03	2.6162	170	2517.588	50.352
1040	1.04	2.6416	166.8	2470.198	49.404
1050	1.05	2.667	163.2	2416.884	48.338
1060	1.06	2.6924	156	2310.257	46.205
1070	1.07	2.7178	150.8	2233.248	44.665

Sumber : Hasil uji di laboratorium



Lampiran 12. Hasil Analisa Dengan Parameter BCI

- BCI Untuk Variasi Geotextile Pada Variasi Spasi

SPASI	P. GEOTEXTILE	BCI
2	20	11.94
	15	9.58
	10	6.11
3	20	9.72
	15	8.47
	10	3.33
4	20	8.06
	15	6.53
	10	1.53

Sumber : Hasil Perhitungan

- BCI Untuk Variasi Spasi Pada Variasi Panjang Geotextile

P.GEOTEXTILE	SPASI	BCI
10	2	6.11
	3	3.33

	4	1.56
15	2	9.58
	3	8.47
	4	6.61
20	2	11.94
	3	9.72
	4	8.06

Sumber : Hasil Perhitungan

- BCI Untuk Variasi Jumlah Lapisan Pada Variasi Panjang Geotextile

P.GEOTEXTILE	J. LAPISAN	BCI
10	3	1.56
	4	3.33
	6	6.11
15	3	6.61
	4	8.47
	6	9.58
20	3	8.06
	4	9.72
	6	11.94

Sumber : Hasil Perhitungan



Lampiran 13. Spesifikasi Geotextile MXW 150

Environmental Solutions

PRODUCT SPECIFICATION

WOVEN GEOTEXTILE

PROPERTIES	POLYPROPYLENE (PP) 100 %							POLYESTER (PET) 100 %				UNIT	TEST METHOD
	MXW150	MXW200	MXW250	MXW300	SG 80	SG 100	SG 200	HS 70	HS 100	HS 150	HS 200		
Mass	150	200	250	300	360	475	615	260	375	380	481	gr/m ²	ASTM D3776/D5261
Thickness 2kPa	1.6	1.9	2.0	2.5	1.35	1.50	2.15	0.35	0.50	0.70	0.95	mm	ASTM D1777/EN964
Tensile Strength	35/30	45/40	55/50	60/60	84/81	110/110	240/54	70/70	100/50	150/50	200/50	KN/m MD/CD	ASTM D4595/EN ISO 10319
Elongation	21/22	20/20	19/21	20/25	11/20	11/20	10/13	10/11	10/10	12/12	10/11	% MD/CD	ASTM D4595/EN ISO 10319
Garb Strength	41/38	56/48	72/64	75/60								KN/m MD/CD	ASTM D4632
Trapezoidal Tear Strength	700/630	720/650	750/670	780/700								N MD/CD	ASTM D4533
CBR Puncture Resistance	284	435	685	1150								N	ASTM D4833
				4500	9500	12500	9200	7600	7400	7200	7300	N	EN ISO 12236/ DIN 54307
Drop Cone Test					10	10	13	30	26	24	20	mm (hole ø)	EN 918-1996
Effective Opening Size	400	300	280	150	255	190	400	200	200	275	205	microns	ASTM D4751/EN ISO 12956
Flow Rate	26	22	21	20	18	23	14	9	11	38	20	L/m ² /sec	ASTM D4991/EN ISO 11058
Permeability (k)	0.04	0.03	0.25	0.25	1.8	2.3	1.4	4.0	3.8	3.8	2.0	cm/sec	ASTM D4991/EN ISO 11058
UV Resistance	70 % strength retention after 500 hours outdoor weathering							85 % strength retention after 500 hours outdoor weathering				-	ASTM D4355

NON-WOVEN CONTINUOUS NEEDLE PUNCH & MECHANICALLY BONDED

PROPERTIES	POLYPROPYLENE (PP) 100 %						POLYESTER (PET) 100 %						UNIT	TEST METHOD	
	MX200	MX250	MX285	MX325	MX350	MX400	MX015	MX020	MX025	MX030	MX035	MX055			
Mass	200	250	285	325	350	400	150	200	250	300	350	550	gr/m ²	ASTM D3776	
Thickness 2kPa	2.0	2.3	2.5	3.0	3.2	3.5	1.9	2.5	3.0	3.1	3.7	5.0	mm	ASTM D1777	
Wide Strip Tensile Strength	15.5	19.8	22.5	25.0	26.5	29.0	15.0	16.5	20.5	26.0	28.5	32.0	KN/m MD	EN ISO 10319/ ASTM D4595	
	15.5	19.0	21.0	24.0	25.0	28.5	12.0	15.5	19.5	24.0	28.0	30.0	CD		
Elongation At Maximum Load	35/75			40/80			45/80			45/90			% MD/CD	EN ISO 10319/ ASTM D4595	
Garb Strength	0.95	1.20	1.35	1.50	1.72	1.95	0.80	1.05	1.75	1.92	2.35	3.55	KN/m MD	ASTM D4632	
	0.85	1.08	1.20	1.40	1.65	1.80	0.70	1.03	1.60	1.75	2.22	3.10	CD		
Garb Elongation	40/75			40/80			40/80			60/90			% MD/CD	ASTM D4632	
CBR Puncture Resistance	2,450	3,000	3,300	3,850	3,950	4,250	2,000	3,000	3,500	4,700	5,100	6,900	N	EN ISO 12236/ DIN 54307	
	200	490	550	625	720	750	360	650	720	810	940	1,360	N	ASTM D4833	
Trapezoidal Tear Strength	380	400	450	520	630	650	260	350	430	525	660	740	N	DIN EN 29073-3/ASTM D 4533	
Drop Cone Test	24	19	16.5	14	15	12	27	24	18	13	12	10	mm (hole ø)	EN 918	
Pore Size O ₉₀	100-90			90-80			110-90			90-80		80-70		microns	ASTM D4751
Water Flow	85	75	65	55	50	45	100	85	80	60	55	50	L/m ² /sec	EN ISO 11058	
	170	155	140	120	100	100	200	180	160	150	125	115	50mm head 100mm head		
Permeability (k)	3 X 10 ⁻³												m/s	EN ISO 11058	
UV Resistance	75 % strength retention after 500 hours outdoor weathering						90 % strength retention after 500 hours outdoor weathering						-	ASTM D4355	



Lampiran 14. Dokumentasi Penelitian

- Dokumentasi Pengambilan Sampel



- Dokumentasi Pengayakan Sampel Sebelum Digunakan



- Dokumentasi Hasil Sampel Yang Telah Diayak



- Dokumentasi Pengerigan Sampel Yang Akan Digunakan



- Dokumentasi Pengujian Analisa Saringan



- Dokumentasi Hasil Pengujian Analisa Saringan



- Dokumentasi Pengujian Specific Gravity



- Dokumentasi Pengujian Specific Gravity



- Dokumentasi Persiapan Sampel Untuk Proctor



- Dokumentasi Pengujian Proctor



- Dokumentasi pembuatan sampel direct shear



- Dokumentasi pengujian direct shear



- Dokumentasi Pengujian Pembebanan Pada Pemodelan Lereng Tanpa Perkuatan



- Dokumentasi Hasil Pengujian Pembebanan Pada Pemodelan Tanpa Perkuatan



- Dokumentasi Pemotongan Geotextile



- Dokumentasi Pengujian Pembebanan Pada Pemodelan Lereng Dengan Perkuatan Geotextile

