LAMPIRAN 1

1. Analisa Data Atterberg Limit

FAKULTAS TEKNIK UNIVERSITAS INDONESIA
LABORATORIUM MEKANIKATANAH
Kampus UI - Depok 16424 Telp. (021)7270029, 78849102 Fax. (021)7270028

ATTERBERG LIMITS DETERMINATION

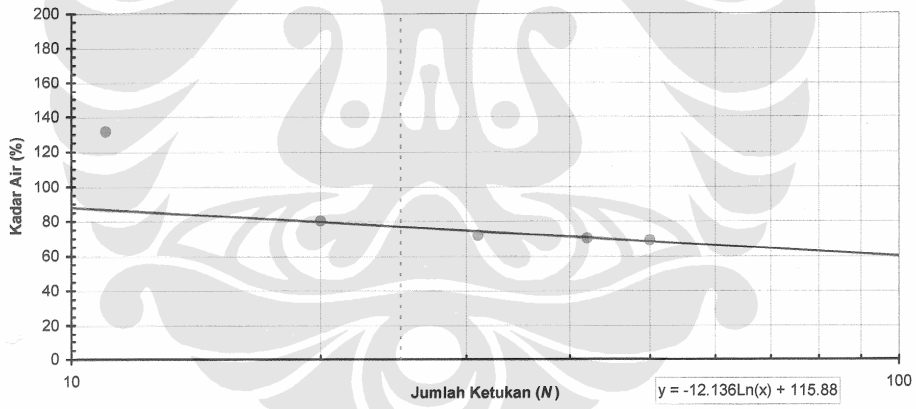
Proyek = Kaoline filler super 325 mesh
Lokasi proyek = Lab. Mektan FT-UI
Deskripsi tanah = kaoline, warna putih
Diuji oleh = Tim skripsi kaoline

No. Pekerjaan = ---
No. Boring = --- No. Sampel = 1
Kedalaman = ---
Tanggal Pengujian = 21 Juli 2008

Liquid Limit Determination

No. Can	Unit	1	2	3	4	5
Berat *can*	(*gr*)	6.34	8.13	7.87	7.94	8.15
Berat tanah basah + *can*	(*gr*)	26.13	27.74	27.22	25.11	36.57
Berat tanah kering + *can*	(*gr*)	14.87	18.99	19.11	18.00	24.94
Berat air	(*gr*)	11.26	8.75	8.11	7.11	11.63
Berat tanah kering	(*gr*)	8.53	10.86	11.24	10.06	16.79
Kadar air (*w*)	(%)	132.00	80.57	72.15	70.68	69.27
Jumlah ketukan (*N*)		11	20	31	42	50

Catatan : data no.1 pada LL diabaikan dalam grafik, karena menyimpang terlalu jauh.



Flow Index (FI) =	**-27.90** (%)
Liquid Limit (LL) =	**76.80** (%)
Plastic Limit (PL) =	- (%)
Plasticity Index (PI) =	- (%)

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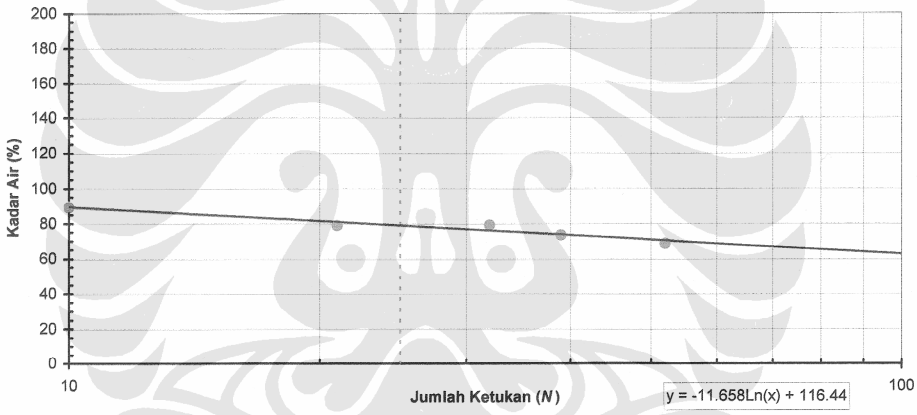
Diuji oleh = Tim skripsi kaoline

No. Pekerjaan = ---
No. Boring = --- No. Sampel = 2
Kedalaman = ---
Tanggal Pengujian = 21 Juli 2008

Liquid Limit Determination

No. Can	Unit	1	2	3	4	5
Berat *can*	(*gr*)	8.80	8.63	9.33	8.73	9.11
Berat tanah basah + *can*	(*gr*)	19.93	16.53	20.13	22.02	20.81
Berat tanah kering + *can*	(*gr*)	14.67	13.04	15.35	16.38	16.04
Berat air	(*gr*)	5.26	3.49	4.78	5.64	4.77
Berat tanah kering	(*gr*)	5.87	4.41	6.02	7.65	6.93
Kadar air (*w*)	(%)	89.61	79.14	79.40	73.73	68.83
Jumlah ketukan (*N*)		10	21	32	39	52

Catatan :



Flow Index (FI) =	**-26.80** (%)
Liquid Limit (LL) =	**78.90** (%)
Plastic Limit (PL) =	**38.40** (%)
Plasticity Index (PI) =	**40.50** (%)

Plastic Limit Determination

No. Can	Unit	1	2
Berat *can*	(*gr*)	21.49	12.82
Berat tanah basah + *can*	(*gr*)	39.65	29.76
Berat tanah kering + *can*	(*gr*)	34.60	25.07
Berat air	(*gr*)	5.05	4.69
Berat tanah kering	(*gr*)	13.11	12.25
Kadar air (*w*)	(%)	38.52	38.29

Catatan :

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ATTERBERG LIMITS DETERMINATION

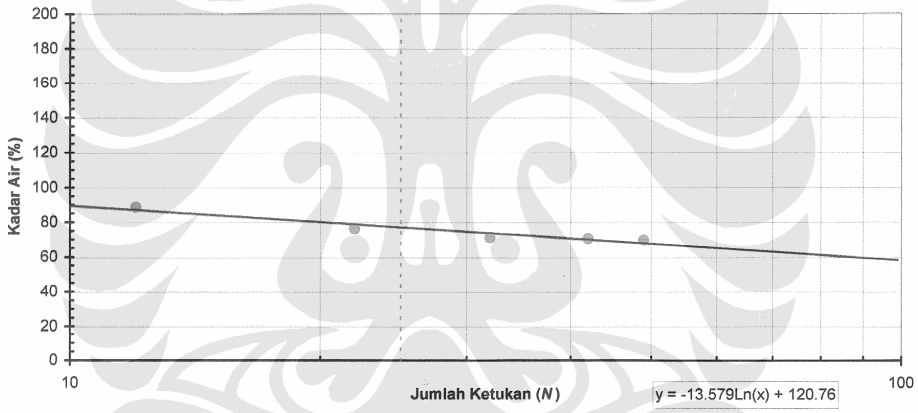
Proyek = Kaoline filler super 325 mesh
Lokasi proyek = Lab. Mektan FT-UI
Deskripsi tanah = kaoline, warna putih
Diuji oleh = Tim skripsi kaoline

No. Pekerjaan = ---
No. Boring = --- No. Sampel = 3
Kedalaman = ---
Tanggal Pengujian = 21 Juli 2008

Liquid Limit Determination

No. Can	Unit	1	2	3	4	5
Berat *can*	(*gr*)	9.14	8.00	8.00	8.47	8.04
Berat tanah basah + *can*	(*gr*)	26.43	18.39	19.73	23.53	26.55
Berat tanah kering + *can*	(*gr*)	18.29	13.89	14.84	17.29	18.94
Berat air	(*gr*)	8.14	4.50	4.89	6.24	7.61
Berat tanah kering	(*gr*)	9.15	5.89	6.84	8.82	10.90
Kadar air (*w*)	(%)	88.96	76.40	71.49	70.75	69.82
Jumlah ketukan (*N*)		12	22	32	42	49

Catatan :



Flow Index (FI) =	**-31.30** (%)
Liquid Limit (LL) =	**77.10** (%)
Plastic Limit (PL) =	**-** (%)
Plasticity Index (PI) =	**-** (%)

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ATTERBERG LIMITS DETERMINATION

Proyek = Kaoline filler super 325 mesh
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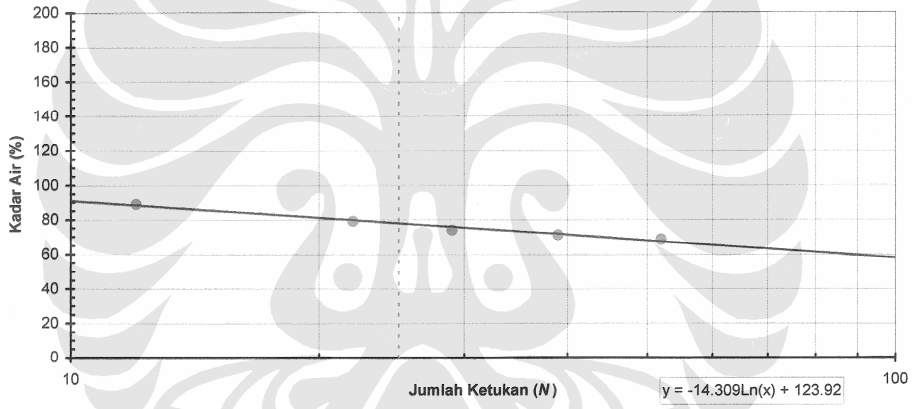
Deskripsi tanah = kaoline, warna putih
Diuji oleh = Tim skripsi kaoline

No. Pekerjaan = ---
No. Boring = --- No. Sampel = 4
Kedalaman = ---
Tanggal Pengujian = 22 Juli 2008

Liquid Limit Determination

No. Can	Unit	1	2	3	4	5
Berat *can*	(gr)	9.11	8.72	8.48	8.76	9.31
Berat tanah basah + *can*	(gr)	17.97	19.56	23.79	23.53	23.73
Berat tanah kering + *can*	(gr)	13.79	14.77	17.27	17.38	17.86
Berat air	(gr)	4.18	4.79	6.52	6.15	5.87
Berat tanah kering	(gr)	4.68	6.05	8.79	8.62	8.55
Kadar air (*w*)	(%)	89.32	79.17	74.18	71.35	68.65
Jumlah ketukan (*N*)		12	22	29	39	52

Catatan :



Flow Index (FI) =	**-32.90** (%)
Liquid Limit (LL) =	**77.90** (%)
Plastic Limit (PL) =	**40.17** (%)
Plasticity Index (PI) =	**37.73** (%)

Plastic Limit Determination

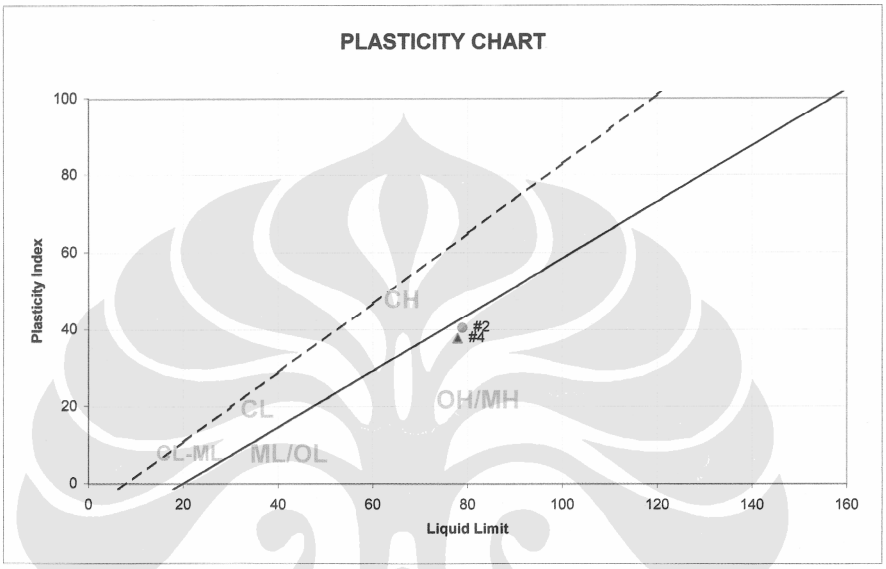
No. Can	Unit	1	2
Berat *can*	(gr)	20.95	13.06
Berat tanah basah + *can*	(gr)	38.65	30.12
Berat tanah kering + *can*	(gr)	33.62	25.19
Berat air	(gr)	5.03	4.93
Berat tanah kering	(gr)	12.67	12.13
Kadar air (*w*)	(%)	39.70	40.64

Catatan :

Laboratorium Mekanika Tanah
Departemen Sipil, Fakultas Teknik Universitas Indonesia
Depok 16424 Telp. +62 21 788 49102, Fax. +62 21 788 49102

ATTERBERG LIMIT

PROYEK	TANGGAL
Skripsi Kaoline	21-22 Juli 2008
LOKASI	**DIUJI OLEH**
Lab. Mektan FT-UI	Tim Kaoline



No. Bor	Kedalaman (m)	Simbol	LL (%)	PL (%)	PI (%)	*Unified Classification*
		#1	76.80			-
		#2	78.90	38.40	40.50	OH/MH
		#3	77.10			-
		#4	77.90	40.17	37.73	OH/MH

2. Analisa Data Specivic Gravity

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SPECIFIC GRAVITY DARI TANAH SOLID ***(Gs)***

Proyek = Kaoline filler super 325 mesh
Lokasi proyek = Lab. Mektan FT-UI
Deskripsi tanah = kaoline, warna putih
Diuji oleh = Tim skripsi kaoline

No. Pekerjaan = ---
No. Boring = --- No. Sampel = ---
Kedalaman = ---
Tanggal Pengujian = 23 Juli 2008

NO. TES	Unit	1	2	3	4
Vol. piknometer pada 20°C	(mL)	500	500	500	500
Metode *air removal* [1]		dididihkan	dididihkan	dididihkan	dididihkan
Berat piknometer + air + tanah = W_{bws}	(gr)	718.29	718.15	727.44	726.16
Temperatur pada saat pengujian, °C		29	29	29	29
Berat piknometer + air [2] = W_{bw}	(gr)	656.65	656.43	665.75	664.40
No. *evaporate dish*		1	2	7	8
Berat *evaporate dish* + tanah kering	(gr)	402.29	407.95	418.23	394.76
Berat *evaporate dish*	(gr)	302.27	307.92	318.08	294.71
Berat tanah kering = W_s	(gr)	100.02	100.03	100.15	100.05
$W_w = W_s + W_{bw} - W_{bws}$	(gr)	38.38	38.31	38.46	38.29
Nilai α pada temperatur pengujian		0.99598	0.99598	0.99598	0.99598
$Gs = \alpha W_s / W_w$		2.596	2.601	2.594	2.602
***Gs* Rata-rata**		**2.598**			

Keterangan :

[1] mengindikasikan pengeluaran udara dengan divakum atau dengan aspirator.

[2] W_{bw} adalah berat piknometer yang diisi air yang kuantitasnya sama dengan cairan pendispersi yang telah ditambahkan pada campuran air-tanah dan pada temperatur yang sama.

Catatan :

***Gs* rata-rata dari tanah solid = 2.598**

3. Analisa Data Hydrometer

FAKULTAS TEKNIK UNIVERSITAS INDONESIA
LABORATORIUM MEKANIKATANAH
Kampus UI - Depok 16424 Telp. (021)7270029, 78849102 Fax. (021)7270028

GRAIN SIZE ANALYSIS - HIDROMETER METHOD

Proyek = Kaoline filler super 325 mesh
Lokasi proyek = Lab. Mektan FT-UI
Deskripsi tanah = kaoline, warna putih
Diuji oleh = Tim skripsi kaoline

Tanggal Pengujian = 24 - 25 Juli 2008
No. Pekerjaan = ---
No. Boring = --- No. Sampel = ---
Kedalaman = ---

Hidrometer analysis

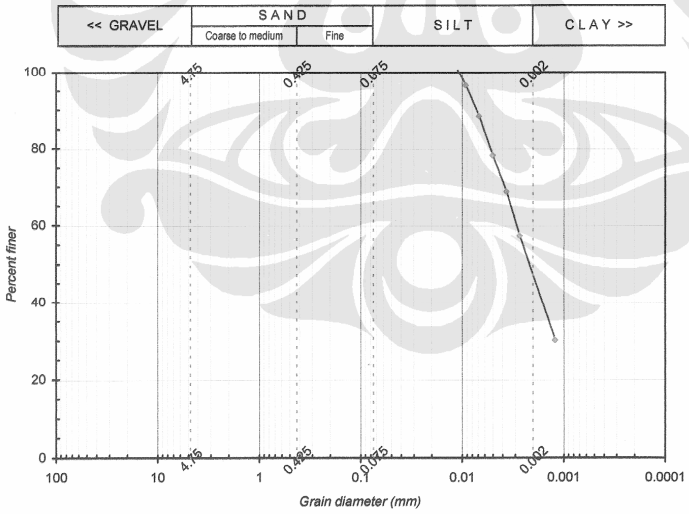
No. hidrometer = 1
Agen pendispersi = *Water glass*
Berat pendispersi = 40 *gr*

Gs tanah = 2.598
a = 1.012
Berat tanah (W_s) = 50 *gr*

Koreksi nol = 4
Koreksi meniskus = 1

Waktu pembacaan		Waktu berjalan (*menit*)	Temp. °C	C_T	Actual Hyd. reading R_a	Corr. Hyd. reading R_c	% Finer	Hyd. corr. only for meniskus R	L	L/t	K	D (*mm*)
Tanggal	Jam											
24-Jul-08	10:05	1	28.5	2.76	53	51.76	104.8	54	7.4	7.400	0.0126	0.034
	10:06	2	28.5	2.76	53	51.76	104.8	54	7.4	3.700	0.0126	0.024
	10:07	3	28.5	2.76	52.7	51.46	104.2	53.7	7.5	2.500	0.0126	0.020
	10:08	4	28.5	2.76	52.2	50.96	103.2	53.2	7.6	1.900	0.0126	0.017
	10:12	8	28.5	2.76	52	50.76	102.8	53	7.6	0.950	0.0126	0.012
	10:19	15	28.5	2.76	49	47.76	96.7	50	8.1	0.540	0.0126	0.009
	10:34	30	28.5	2.76	45	43.76	88.6	46	8.8	0.293	0.0126	0.007
	11:04	60	28.5	2.76	40	38.76	78.5	41	9.6	0.160	0.0126	0.005
	12:04	120	29	3.08	35	34.08	69.0	36	10.4	0.087	0.0125	0.004
	14:04	240	29.5	3.42	29	28.42	57.5	30	11.4	0.048	0.0125	0.003
	18:04	480										
	2:04	960										
25-Jul-08	10:04	1440	28	2.48	16.5	14.98	30.3	17.5	13.4	0.009	0.0126	0.001

Catatan : $R_c = R_a$ - (koreksi nol) + C_T *% finer* = $R_c.(a) / W_s$ $D = K.\sqrt{(L/t)}$



Komposisi	
Sand	0%
Silt	53%
Clay	47%

Deskripsi visual tanah :
Putih

Klasifikasi tanah :
Clayey Silt

Sistem klasifikasi :
Unified

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Lokasi proyek = Lab. Mektan FT-UI
Deskripsi tanah = kaoline, warna putih
Diuji oleh = Tim skripsi kaoline

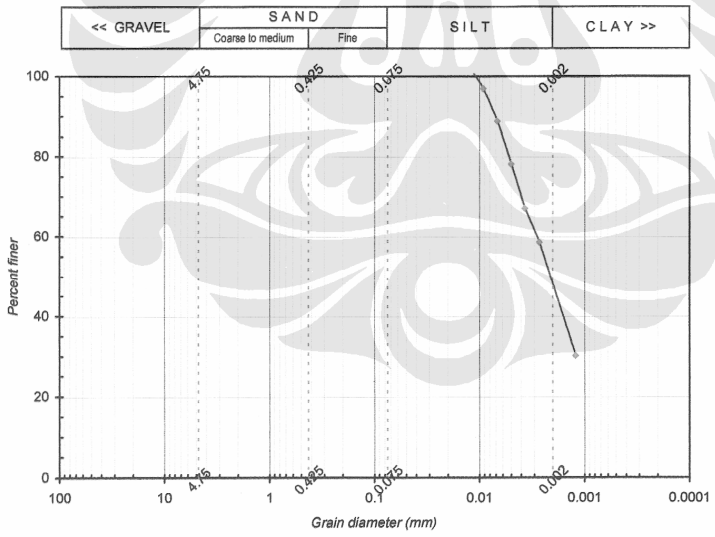
Tanggal Pengujian = 24 - 25 Juli 2008
No. Pekerjaan = ---
No. Boring = --- No. Sampel = ---
Kedalaman = ---

Hidrometer analysis

No. hidrometer = 1 *Gs* tanah = 2.598 Koreksi nol = 4
Agen pendispersi = *Water glass* *a* = 1.012 Koreksi meniskus = 1
Berat pendispersi = 40 *gr* Berat tanah (W_s) = 50 *gr*

Waktu pembacaan		Waktu berjalan (*menit*)	Temp. °C	C_T	Actual Hyd. reading R_a	Corr. Hyd. reading R_c	% Finer	Hyd. corr. only for meniskus R	L	L/t	K	D (*mm*)
Tanggal	Jam											
24-Jul-08	10:20	1	28.5	2.76	54	52.76	106.8	55	7.3	7.300	0.0126	0.034
	10:21	2	28.5	2.76	53.3	52.06	105.4	54.3	7.4	3.700	0.0126	0.024
	10:22	3	28.5	2.76	52.9	51.66	104.6	53.9	7.5	2.500	0.0126	0.020
	10:23	4	28.5	2.76	52.5	51.26	103.8	53.5	7.5	1.875	0.0126	0.017
	10:27	8	28.5	2.76	51.7	50.46	102.2	52.7	7.7	0.963	0.0126	0.012
	10:34	15	28.8	2.95	49	47.95	97.1	50	8.1	0.540	0.0125	0.009
	10:49	30	28.8	2.95	45	43.95	89.0	46	8.8	0.293	0.0125	0.007
	11:19	60	28.8	2.95	39.7	38.65	78.2	40.7	9.6	0.160	0.0125	0.005
	12:19	120	29	3.08	34.1	33.18	67.2	35.1	10.5	0.088	0.0125	0.004
	14:19	240	30	3.80	29.2	29.00	58.7	30.2	11.3	0.047	0.0124	0.003
	18:19	480										
	2:19	960										
25-Jul-08	10:19	1440	28	2.48	16.5	14.98	30.3	17.5	13.4	0.009	0.0126	0.001

Catatan : $R_c = R_a$ - (koreksi nol) + C_T % finer = $Rc.(a) / W_s$ $D = K.\sqrt{(L/t)}$



Komposisi	
Sand	0%
Silt	52%
Clay	48%

Deskripsi visual tanah :
Putih

Klasifikasi tanah :
Clayey Silt

Sistem klasifikasi :
Unified

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Deskripsi tanah = kaoline, warna putih
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Tanggal Pengujian = 24 - 25 Juli 2008
No. Pekerjaan = ---
No. Boring = --- No. Sampel = ---
Kedalaman = ---

Hidrometer analysis

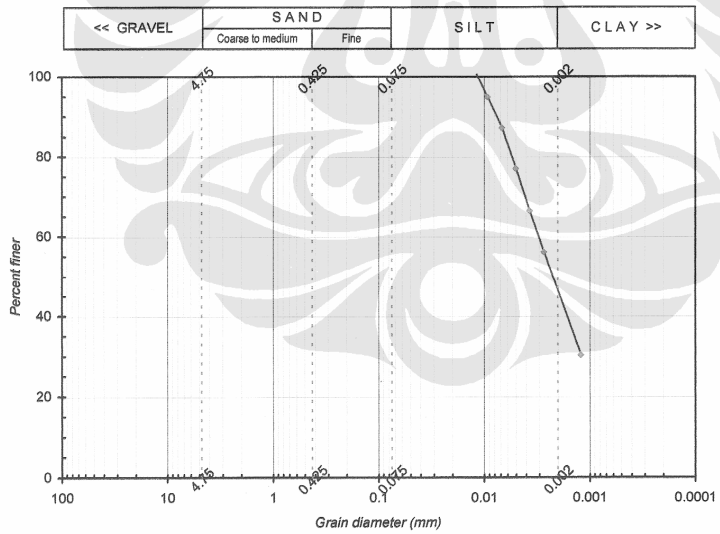
No. hidrometer = 1
Agen pendispersi = *Water glass*
Berat pendispersi = 40 *gr*

Gs tanah = 2.598
a = 1.012
Berat tanah (W_s) = 50 *gr*

Koreksi nol = 4
Koreksi meniskus = 1

Waktu pembacaan		Waktu berjalan (*menit*)	Temp. °C	C_T	Actual Hyd. reading R_a	Corr. Hyd. reading R_c	% Finer	Hyd. corr. only for meniskus R	L	L/t	K	D (*mm*)
Tanggal	Jam											
24-Jul-08	10:45	1	28.8	2.95	54	52.95	107.2	55	7.3	7.300	0.0125	0.034
	10:46	2	28.8	2.95	53	51.95	105.2	54	7.4	3.700	0.0125	0.024
	10:47	3	28.8	2.95	52.8	51.75	104.8	53.8	7.5	2.500	0.0125	0.020
	10:48	4	28.8	2.95	52	50.95	103.2	53	7.6	1.900	0.0125	0.017
	10:52	8	28.8	2.95	51.2	50.15	101.5	52.2	7.7	0.963	0.0125	0.012
	10:59	15	28.8	2.95	48	46.95	95.1	49	8.3	0.553	0.0125	0.009
	11:14	30	28.8	2.95	44.2	43.15	87.4	45.2	8.9	0.297	0.0125	0.007
	11:44	60	28.8	2.95	39.2	38.15	77.2	40.2	9.7	0.162	0.0125	0.005
	12:44	120	29	3.08	33.8	32.88	66.6	34.8	10.6	0.088	0.0125	0.004
	14:44	240	30	3.80	28	27.80	56.3	29	11.5	0.048	0.0124	0.003
	18:44	480										
	2:44	960										
25-Jul-08	10:44	1440	28.1	2.53	16.5	15.03	30.4	17.5	13.4	0.009	0.0126	0.001

Catatan : $R_c = R_a$ - (koreksi nol) + C_T *% finer* = $R_a.(a) / W_s$ $D = K.\sqrt{(L/t)}$



Komposisi	
Sand	0%
Silt	53%
Clay	47%

Deskripsi visual tanah :
Putih

Klasifikasi tanah :
Clayey Silt

Sistem klasifikasi :
Unified

4. Analisa Data Pembuatan Benda Uji

MONITORING PEMBUATAN BENDA UJI

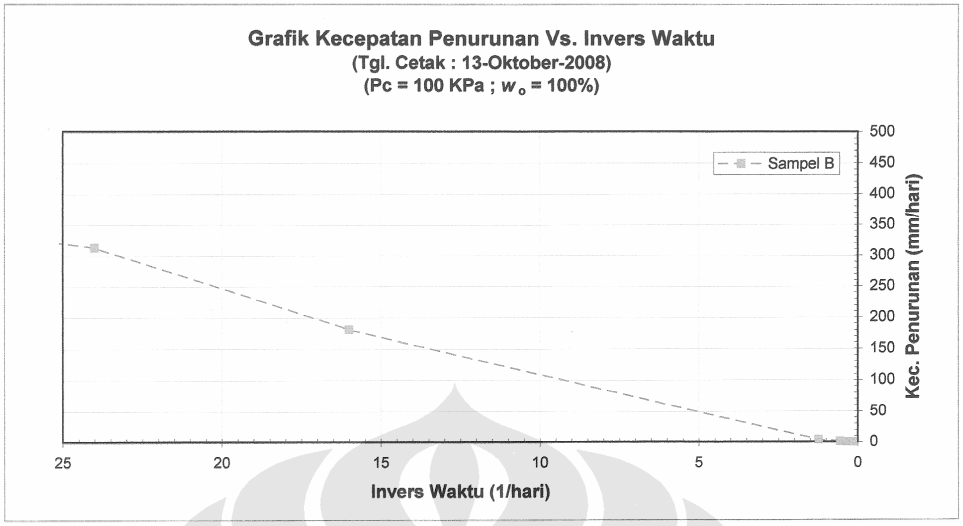
Hari / Tanggal =		13-Oct-08
Jenis tanah =		Kaoline murni
Tegangan preloading (Pc) =		100 kPa
Alat untuk preloading =		Rowe Cell
Kode sampel =		# 1 - B
Kadar air renc. Sblm. preloading (w_o) =		100 %
Ukuran cetakan :	ϕ =	15.2 cm
	H =	17.8 cm
Kondisi sebelum preloading :		
(a) Volume cetakan (can) =		79.10 cm3
(b) Berat cetakan =		9.45 gr
(c) Berat cetakan + wet soil =		119.67 gr
(d) Berat cetakan + dry soil =		65.24 gr

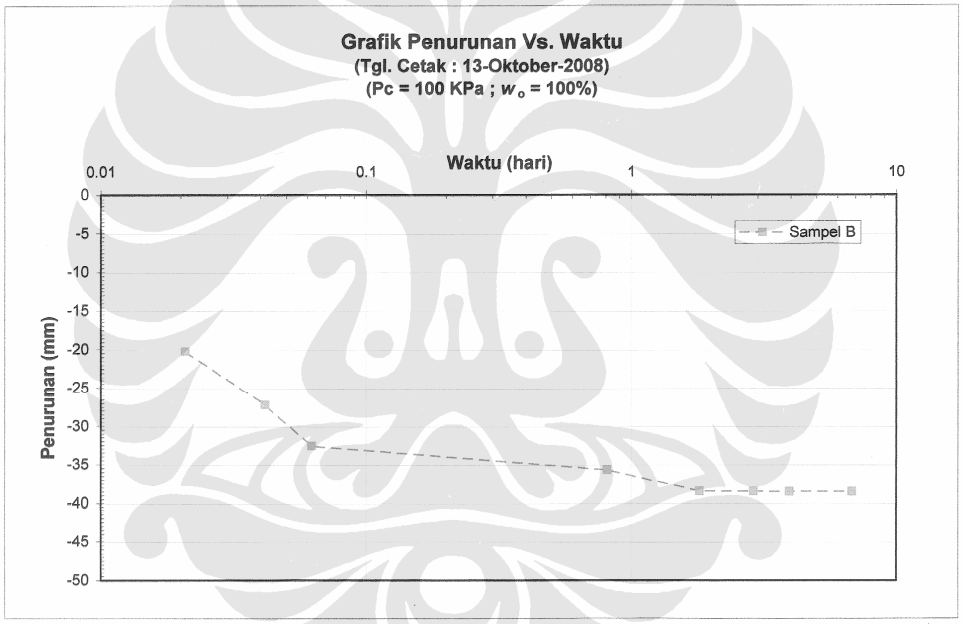
Kadar air aktual w_{act} --> (c-d)/(d-b) =	97.56 %
γ_{wet} --> (c-b)/a =	1.393 gr/cm3
γ_{dry} --> $\gamma_{wet}/(1+w_{act})$ =	0.705 gr/cm3
Specific Gravity (GS) =	2.598
Vw --> $(\gamma_{wet}-\gamma_{dry})/\gamma_w$ =	0.688 cm3/cm3 sampel
Vs --> $\gamma_{dry}/(GS \times \gamma_w)$ =	0.271 cm3/cm3 sampel
Vv --> 1-Vs =	0.729 cm3/cm3 sampel
Derajat kejenuhan (DS) --> Vw/Vv =	0.945
Angka pori (e) --> Vv/Vs =	2.683
Porositas (n) --> Vv/V =	0.729

Waktu		Waktu Berjalan			Elevasi Sampel (1 div = 0.01 mm)			Penurunan	Kecepatan Penurunan (1 div = 0.01 mm)				Kec. Penurunan (v)	Catatan
					Elev.(H)	Bacaan Dial		(ΔH)	Penurunan (Δh)		Durasi (Δt)			
(hari)	(jam)	(jam)	(hari)	(1/hari)	(mm)	(div)	(mm)	(mm)	(div)	(mm)	(detik)	(hari)	(mm/hari)	
13-Oct-08	14:30	0:00:00	0.000	~	79.00	27	0.27	**0**	-	-	-	-	-	
	15:00	0:30:00	0.021	48	58.87	2040	20.40	**-20.13**	10	0.10	18.28	0.0002	**472.648**	
	15:30	1:00:00	0.042	24	51.87	2740	27.40	**-27.13**	10	0.10	27.60	0.0003	**313.043**	
	16:00	1:30:00	0.063	16	46.47	3280	32.80	**-32.53**	5	0.05	23.85	0.0003	**181.132**	
14-Oct-08	10:00	19:30:00	0.813	1.231	43.37	3590	35.90	**-35.63**	-	3.10	-	0.7500	**4.133**	
15-Oct-08	10:00	43:30:00	1.813	0.552	40.67	3860	38.60	**-38.33**	-	2.70	-	1.8125	**1.490**	
16-Oct-08	12:00	69:30:00	2.896	0.345	40.63	3864	38.64	**-38.37**	-	0.04	-	2.8958	**0.014**	
17-Oct-08	13:30	95:00:00	3.958	0.253	40.60	3867	38.67	**-38.40**	-	0.03	-	3.9583	**0.008**	
20-Oct-08	10:00	163:30:00	6.813	0.147	40.59	3868	38.68	**-38.41**	-	0.01	-	6.8125	**0.001**	

Kondisi setelah preloading :		
(a) Volume cetakan =		79.10 cm3
(b) Berat cetakan =		8.11 gr
(c) Berat cetakan + wet soil =		153.12 gr
(d) Berat cetakan + dry soil =		99.42 gr

Kadar air w_c --> (c-d)/(d-b) =	58.81 %
γ_{wet} --> (c-b)/a =	1.833 gr/cm3
γ_{dry} --> $\gamma_{wet}/(1+w_c)$ =	1.154 gr/cm3
Specific Gravity (GS) =	2.598
Vw --> $(\gamma_{wet}-\gamma_{dry})/\gamma_w$ =	0.679 cm3/cm3 sampel
Vs --> $\gamma_{dry}/(GS \times \gamma_w)$ =	0.444 cm3/cm3 sampel
Vv --> 1-Vs =	0.556 cm3/cm3 sampel
Derajat kejenuhan (DS) --> Vw/Vv =	1.222
Angka pori (e) --> Vv/Vs =	1.251
Porositas (n) --> Vv/V =	0.556


Grafik Kecepatan Penurunan Vs. Invers Waktu
(Tgl. Cetak : 13-Oktober-2008)
(Pc = 100 KPa ; w_o = 100%)
Sampel B
500
450
400
350
300
250
200
150
100
50
0
Kec. Penurunan (mm/hari)
25
20
15
10
5
0
Invers Waktu (1/hari)


Grafik Penurunan Vs. Waktu
(Tgl. Cetak : 13-Oktober-2008)
(Pc = 100 KPa ; w_o = 100%)
Waktu (hari)
0.01
0.1
1
10
Sampel B
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
Penurunan (mm)

MONITORING PEMBUATAN BENDA UJI

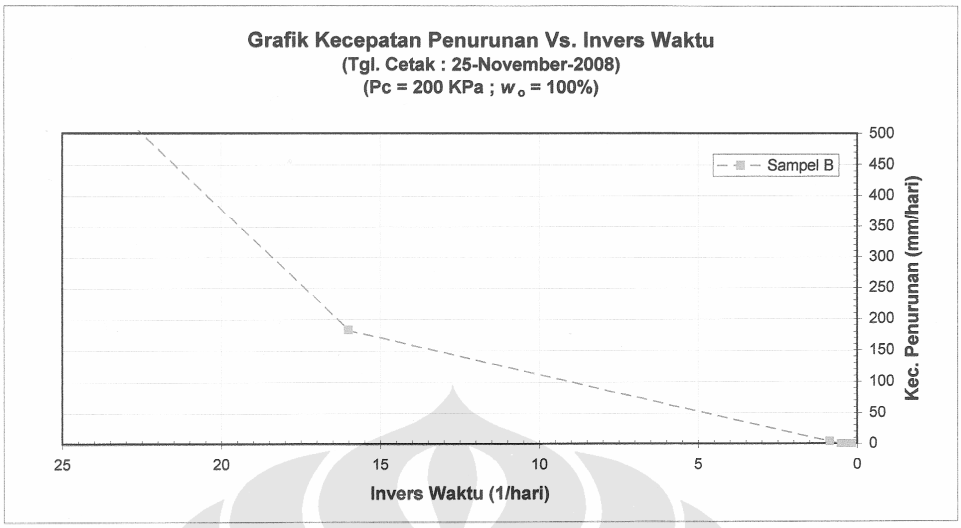
Hari / Tanggal =		25-Nov-08
Jenis tanah =		Kaoline murni
Tegangan preloading (Pc) =		200 kPa
Alat untuk preloading =		Rowe Cell
Kode sampel =		# 1 - B
Kadar air renc. Sblm. preloading (w_o) =		100 %
Ukuran cetakan :	ϕ =	15.2 cm
	H =	17.8 cm
Kondisi sebelum preloading :		
(a) Volume cetakan (can) =		79.10 cm3
(b) Berat cetakan =		7.99 gr
(c) Berat cetakan + wet soil =		92.03 gr
(d) Berat cetakan + dry soil =		50.27 gr

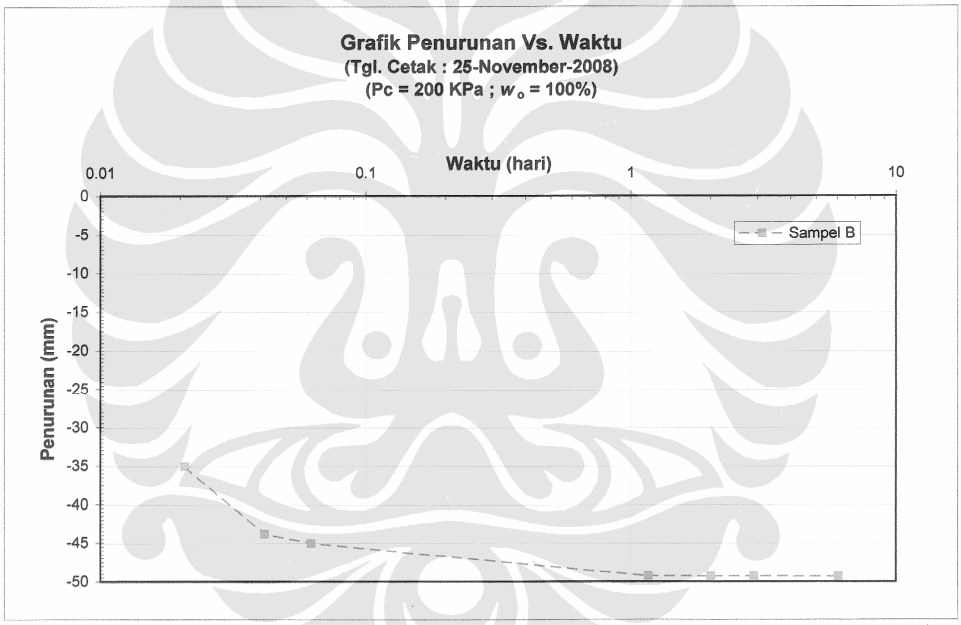
Kadar air aktual w_{act} --> (c-d)/(d-b) =	98.77 %
γ_{wet} --> (c-b)/a =	1.062 gr/cm3
γ_{dry} --> $\gamma_{wet}/(1+w_{act})$ =	0.535 gr/cm3
Specific Gravity (GS) =	2.598
Vw --> $(\gamma_{wet}-\gamma_{dry})/\gamma_w$ =	0.528 cm3/cm3 sampel
Vs --> $\gamma_{dry}/(GS \times \gamma_w)$ =	0.206 cm3/cm3 sampel
Vv --> $1-Vs$ =	0.794 cm3/cm3 sampel
Derajat kejenuhan (DS) --> Vw/Vv =	0.665
Angka pori (e) --> Vv/Vs =	3.860
Porositas (n) --> Vv/V =	0.794

Waktu		Waktu Berjalan			Elevasi Sampel (1 div = 0.01 mm)			Penurunan	Kecepatan Penurunan (1 div = 0.01 mm)				Kec. Penurunan (v)	Catatan
					Elev.(H)	Bacaan Dial		(ΔH)	Penurunan (Δh)		Durasi (Δt)			
(hari)	(jam)	(jam)	(hari)	(1/hari)	(mm)	(div)	(mm)	(mm)	(div)	(mm)	(detik)	(hari)	(mm/hari)	
25-Nov-08	12:00	0:00:00	0.000	~	83.00	0	0.00	0	-	-	-	-	-	
	12:30	0:30:00	0.021	48	48.00	3500	35.00	-35.00	10	0.10	6.46	0.0001	1337.461	
	13:00	1:00:00	0.042	24	39.20	4380	43.80	-43.80	10	0.10	15.01	0.0002	575.616	
	13:30	1:30:00	0.063	16	38.00	4500	45.00	-45.00	10	0.10	47.09	0.0005	183.478	
26-Nov-08	16:00	28:00:00	1.167	0.857	33.80	4920	49.20	-49.20	-	4.20	-	1.1042	3.804	
27-Nov-08	12:10	48:10:00	2.007	0.498	33.75	4925	49.25	-49.25	-	0.05	-	2.0069	0.025	
28-Nov-08	10:00	70:00:00	2.917	0.343	33.73	4927	49.27	-49.27	-	0.02	-	2.9167	0.007	
1-Dec-08	13:30	145:30:00	6.063	0.165	33.72	4928	49.28	-49.28	-	0.01	-	6.0625	0.002	

Kondisi setelah preloading :	
(a) Volume cetakan =	79.10 cm3
(b) Berat cetakan =	7.87 gr
(c) Berat cetakan + wet soil =	140.05 gr
(d) Berat cetakan + dry soil =	91.78 gr

Kadar air w_c --> (c-d)/(d-b) =	57.53 %
γ_{wet} --> (c-b)/a =	1.671 gr/cm3
γ_{dry} --> $\gamma_{wet}/(1+w_c)$ =	1.061 gr/cm3
Specific Gravity (GS) =	2.598
Vw --> $(\gamma_{wet}-\gamma_{dry})/\gamma_w$ =	0.610 cm3/cm3 sampel
Vs --> $\gamma_{dry}/(GS \times \gamma_w)$ =	0.408 cm3/cm3 sampel
Vv --> $1-Vs$ =	0.592 cm3/cm3 sampel
Derajat kejenuhan (DS) --> Vw/Vv =	1.031
Angka pori (e) --> Vv/Vs =	1.449
Porositas (n) --> Vv/V =	0.592

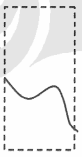
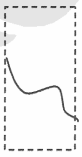
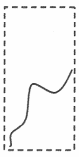

Grafik Kecepatan Penurunan Vs. Invers Waktu
(Tgl. Cetak : 25-November-2008)
(Pc = 200 KPa ; w_o = 100%)
Sampel B
500
450
400
350
300
250
200
150
100
50
0
Kec. Penurunan (mm/hari)
25
20
15
10
5
0
Invers Waktu (1/hari)


Grafik Penurunan Vs. Waktu
(Tgl. Cetak : 25-November-2008)
(Pc = 200 KPa ; w_o = 100%)
Waktu (hari)
0.01
0.1
1
10
Sampel B
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
Penurunan (mm)

5. Analisa Data Triaksial UU

TRIAXIAL COMPRESSION TEST

Proyek	:Skripsi grup kaoline	Tanggal	: 3-Nov-08
Lokasi	:Lab. MekTan FTUI		
Deskripsi tanah	:Kaoline Pc=100 kPa, *w* o=100%	Jenis pengujiar	: UU - test
No. pengeboran			
No. sampel		Diuji oleh	: Taufik Hidayat
Kedalaman			

		Unit	Data sampel			Catatan
	No. Sampel		1	2	3	
	Kode Sampel		-	-		
(a)	Berat can	(gr)	0.00	0.00	0.00	
(b)	Berat can + tanah basah	(gr)	141.63	138.05	140.00	
(c)	Berat can + tanah kering	(gr)	89.43	87.08	88.38	
(b-c)	Berat air	(gr)	52.20	50.97	51.62	
(c-a)	Berat tanah kering	(gr)	89.43	87.08	88.38	
(b-c)/(c-a)	Kadar air (*w*)	(%)	58.37	58.53	58.41	
	Kadar air rata-rata (*w*)	(%)	58.44			
(d)	Tinggi sampel (*Ho*)	(cm)	7.56	7.59	7.56	
(e)	Diameter sampel (*Do*)	(cm)	3.81	3.78	3.82	
(f)	Luas (*Ao*)	(cm2)	11.40	11.22	11.46	
(g)	Volume (*Vo*)	(cm3)	86.19	85.18	86.64	
(b-a)/(g)	Berat jenis tanah basah (γ_{wet})	(gr/cm3)	1.643	1.621	1.616	
(c-a)/(g)	Berat jenis tanah kering (γ_{dry})	(gr/cm3)	1.038	1.022	1.020	
	Rata-rata (γ_{wet})	(gr/cm3)	1.627			
	Rata-rata (γ_{dry})	(gr/cm3)	1.027			
	Tegangan lateral / sel pada sampel (σ_3)	(kg/cm2)	0.50	1.00	1.50	
	Tipe keruntuhan					
						

TRIAXIAL COMPRESSION TEST

Proyek	:Skripsi grup kaoline	Tanggal	: 3-Nov-08
Lokasi	:Lab. MekTan FTUI	Jenis pengujian triaksial	: UU - test
Deskripsi tanah	:Kaoline Pc=100 kPa, *w* o=100%	Diuji oleh	: Taufik Hidayat
No. pengeboran	:		
No. sampel	:1	*Data sampel :*	
Kedalaman	:	Kode sampel	: -
		Diameter (ϕ)	: 3.81 cm
Data alat :		Tinggi awal (Ho)	: 7.56 cm
Load ring constant (LRC)	0.364 kg/div	Luas penampang (Ao)	: 11.40 cm2
Strain rate	1.00 mm/menit	Volume (V)	: 129.98 cm3

Waktu Berjalan	Deformasi (ΔH) Dial Reading		Beban (P) Dial Reading		Tegangan Sel (σ_3)	Regangan (ε) (ΔH/Ho)	Faktor Koreksi Luas (1-ε)	Luas Pen. Terkoreksi (Ao/[1-ε])	Tegangan Deviator (σ_1-σ_3)
	1 div =	0.001 cm	1 div =	0.364 kg					
(menit)	(div)	(cm)	(div)	(kg)	(kg/cm2)	(%)		(cm2)	(kg/cm2)
	0	0.000	0	0.000	0.500	0.000	1.000	11.401	0.000
	25	0.025	2.1	0.764	0.500	0.331	0.997	11.439	0.067
	50	0.050	3	1.092	0.500	0.661	0.993	11.477	0.095
	75	0.075	3.5	1.274	0.500	0.992	0.990	11.515	0.111
	100	0.100	4	1.456	0.500	1.323	0.987	11.554	0.126
	125	0.125	4.7	1.711	0.500	1.653	0.983	11.593	0.148
	150	0.150	5	1.820	0.500	1.984	0.980	11.632	0.156
	175	0.175	5.5	2.002	0.500	2.315	0.977	11.671	0.172
	200	0.200	5.8	2.111	0.500	2.646	0.974	11.711	0.180
	225	0.225	6	2.184	0.500	2.976	0.970	11.751	0.186
	250	0.250	6.2	2.257	0.500	3.307	0.967	11.791	0.191
	275	0.275	6.5	2.366	0.500	3.638	0.964	11.831	0.200
	300	0.300	6.8	2.475	0.500	3.968	0.960	11.872	0.208
	325	0.325	6.9	2.512	0.500	4.299	0.957	11.913	0.211
	350	0.350	7.1	2.584	0.500	4.630	0.954	11.954	0.216
	375	0.375	7.4	2.694	0.500	4.960	0.950	11.996	0.225
	400	0.400	7.7	2.803	0.500	5.291	0.947	12.038	0.233
	425	0.425	7.95	2.894	0.500	5.622	0.944	12.080	0.240
	450	0.450	8.1	2.948	0.500	5.952	0.940	12.122	0.243
	475	0.475	8.25	3.003	0.500	6.283	0.937	12.165	0.247
	500	0.500	8.4	3.058	0.500	6.614	0.934	12.208	0.250
	525	0.525	8.75	3.185	0.500	6.944	0.931	12.252	0.260
	550	0.550	8.9	3.240	0.500	7.275	0.927	12.295	0.263
	575	0.575	9.1	3.312	0.500	7.606	0.924	12.339	0.268
	600	0.600	9.3	3.385	0.500	7.937	0.921	12.384	0.273
	625	0.625	9.45	3.440	0.500	8.267	0.917	12.428	0.277
	650	0.650	9.6	3.494	0.500	8.598	0.914	12.473	0.280
	675	0.675	9.75	3.549	0.500	8.929	0.911	12.519	0.283
	700	0.700	9.9	3.604	0.500	9.259	0.907	12.564	0.287
	725	0.725	10.15	3.695	0.500	9.590	0.904	12.610	0.293
	750	0.750	10.25	3.731	0.500	9.921	0.901	12.657	0.295
	775	0.775	10.4	3.786	0.500	10.251	0.897	12.703	0.298
	800	0.800	10.6	3.858	0.500	10.582	0.894	12.750	0.303
	825	0.825	10.75	3.913	0.500	10.913	0.891	12.797	0.306
	850	0.850	10.9	3.968	0.500	11.243	0.888	12.845	0.309
	875	0.875	11.2	4.077	0.500	11.574	0.884	12.893	0.316
	900	0.900	11.4	4.150	0.500	11.905	0.881	12.942	0.321
	925	0.925	11.65	4.241	0.500	12.235	0.878	12.990	0.326
	950	0.950	11.85	4.313	0.500	12.566	0.874	13.039	0.331
	975	0.975	12	4.368	0.500	12.897	0.871	13.089	0.334
	1000	1.000	12.2	4.441	0.500	13.228	0.868	13.139	0.338
	1025	1.025	12.4	4.514	0.500	13.558	0.864	13.189	0.342
	1050	1.050	12.65	4.605	0.500	13.889	0.861	13.240	0.348
	1075	1.075	12.8	4.659	0.500	14.220	0.858	13.291	0.351
	1100	1.100	13	4.732	0.500	14.550	0.854	13.342	0.355
	1125	1.125	13.15	4.787	0.500	14.881	0.851	13.394	0.357
	1150	1.150	13.25	4.823	0.500	15.212	0.848	13.446	0.359
	1175	1.175	13.35	4.859	0.500	15.542	0.845	13.499	0.360
	1200	1.200	13.4	4.878	0.500	15.873	0.841	13.552	0.360
	1225	1.225	13.5	4.914	0.500	16.204	0.838	13.606	0.361
	1250	1.250	13.5	4.914	0.500	16.534	0.835	13.659	0.360
	1275	1.275	13.5	4.914	0.500	16.865	0.831	13.714	0.358

Perhitungan data :

Tegangan lateral (σ_3) =	**0.500** kg/cm2
Tegangan deviator maksimum ($\Delta\sigma = \sigma_1$-σ_3)=	**0.361** kg/cm2
Tegangan vertikal maksimum ($\sigma_1 = \Delta\sigma+\sigma_3$) =	**0.861** kg/cm2
Regangan saat tegangan vertikal maximum =	**16.204** %

TRIAXIAL COMPRESSION TEST

Proyek	:Skripsi grup kaoline	Tanggal	: 3-Nov-08
Lokasi	:Lab. MekTan FTUI	Jenis pengujian triaksial	: UU - test
Deskripsi tanah	:Kaoline Pc=100 kPa, *w* o=100%	Diuji oleh	: Taufik Hidayat
No. pengeboran	:		
No. sampel	:2	*Data sampel :*	
Kedalaman	:	Kode sampel	: -
		Diameter (ϕ)	: 3.78 cm
Data alat :		Tinggi awal (Ho)	: 7.59 cm
Load ring constant (LRC)	0.364 kg/div	Luas penampang (Ao)	: 11.22 cm2
Strain rate	1.00 mm/menit	Volume (V)	: 125.94 cm3

Waktu Berjalan	Deformasi (ΔH) Dial Reading		Beban (P) Dial Reading		Tegangan Sel	Regangan (ε)	Faktor Koreksi Luas	Luas Pen. Terkoreksi	Tegangan Deviator
	1 div =	0.001 cm	1 div =	0.364 kg	(σ_3)	(ΔH/Ho)	(1-ε)	(Ao/[1-ε])	(σ_1-σ_3)
(menit)	(div)	(cm)	(div)	(kg)	(kg/cm2)	(%)		(cm2)	(kg/cm2)
	0	0.000	0	0.000	1.000	0.000	1.000	11.222	0.000
	25	0.025	1.5	0.546	1.000	0.329	0.997	11.259	0.048
	50	0.050	2.5	0.910	1.000	0.659	0.993	11.297	0.081
	75	0.075	5	1.820	1.000	0.988	0.990	11.334	0.161
	100	0.100	7	2.548	1.000	1.318	0.987	11.372	0.224
	125	0.125	8.5	3.094	1.000	1.647	0.984	11.410	0.271
	150	0.150	9.7	3.531	1.000	1.976	0.980	11.448	0.308
	175	0.175	10.5	3.822	1.000	2.306	0.977	11.487	0.333
	200	0.200	11.2	4.077	1.000	2.635	0.974	11.526	0.354
	225	0.225	12	4.368	1.000	2.964	0.970	11.565	0.378
	250	0.250	12.55	4.568	1.000	3.294	0.967	11.604	0.394
	275	0.275	13	4.732	1.000	3.623	0.964	11.644	0.406
	300	0.300	13.7	4.987	1.000	3.953	0.960	11.684	0.427
	325	0.325	14	5.096	1.000	4.282	0.957	11.724	0.435
	350	0.350	14.3	5.205	1.000	4.611	0.954	11.765	0.442
	375	0.375	14.9	5.424	1.000	4.941	0.951	11.805	0.459
	400	0.400	15.2	5.533	1.000	5.270	0.947	11.846	0.467
	425	0.425	15.6	5.678	1.000	5.599	0.944	11.888	0.478
	450	0.450	16	5.824	1.000	5.929	0.941	11.929	0.488
	475	0.475	16.1	5.860	1.000	6.258	0.937	11.971	0.490
	500	0.500	16.4	5.970	1.000	6.588	0.934	12.013	0.497
	525	0.525	16.8	6.115	1.000	6.917	0.931	12.056	0.507
	550	0.550	17.1	6.224	1.000	7.246	0.928	12.099	0.514
	575	0.575	17.3	6.297	1.000	7.576	0.924	12.142	0.519
	600	0.600	17.5	6.370	1.000	7.905	0.921	12.185	0.523
	625	0.625	17.9	6.516	1.000	8.235	0.918	12.229	0.533
	650	0.650	18	6.552	1.000	8.564	0.914	12.273	0.534
	675	0.675	18.2	6.625	1.000	8.893	0.911	12.318	0.538
	700	0.700	18.4	6.698	1.000	9.223	0.908	12.362	0.542
	725	0.725	18.8	6.843	1.000	9.552	0.904	12.407	0.552
	750	0.750	19	6.916	1.000	9.881	0.901	12.453	0.555
	775	0.775	19.15	6.971	1.000	10.211	0.898	12.498	0.558
	800	0.800	19.25	7.007	1.000	10.540	0.895	12.544	0.559
	825	0.825	19.5	7.098	1.000	10.870	0.891	12.591	0.564
	850	0.850	19.8	7.207	1.000	11.199	0.888	12.637	0.570
	875	0.875	20	7.280	1.000	11.528	0.885	12.684	0.574
	900	0.900	20.1	7.316	1.000	11.858	0.881	12.732	0.575
	925	0.925	20.2	7.353	1.000	12.187	0.878	12.780	0.575
	950	0.950	20.4	7.426	1.000	12.516	0.875	12.828	0.579
	975	0.975	20.6	7.498	1.000	12.846	0.872	12.876	0.582
	1000	1.000	20.9	7.608	1.000	13.175	0.868	12.925	0.589
	1025	1.025	21	7.644	1.000	13.505	0.865	12.974	0.589
	1050	1.050	21.2	7.717	1.000	13.834	0.862	13.024	0.593
	1075	1.075	21.4	7.790	1.000	14.163	0.858	13.074	0.596
	1100	1.100	21.7	7.899	1.000	14.493	0.855	13.124	0.602
	1125	1.125	21.85	7.953	1.000	14.822	0.852	13.175	0.604
	1150	1.150	21.9	7.972	1.000	15.152	0.848	13.226	0.603
	1175	1.175	21.95	7.990	1.000	15.481	0.845	13.278	0.602
	1200	1.200	22	8.008	1.000	15.810	0.842	13.330	0.601
	1225	1.225	22	8.008	1.000	16.140	0.839	13.382	0.598
	1250	1.250	22	8.008	1.000	16.469	0.835	13.435	0.596

Perhitungan data :

Tegangan lateral (σ_3) =	**1.000** kg/cm2
Tegangan deviator maksimum ($\Delta\sigma = \sigma_1-\sigma_3$) =	**0.604** kg/cm2
Tegangan vertikal maksimum ($\sigma_1 = \Delta\sigma+\sigma_3$) =	**1.604** kg/cm2
Regangan saat tegangan vertikal maximum =	**14.822** %

TRIAXIAL COMPRESSION TEST

Proyek :Skripsi grup kaoline
Lokasi :Lab. MekTan FTUI
Deskripsi tanah :Kaoline Pc=100 kPa, *w*o=100%
No. pengeboran :
No. sampel :3
Kedalaman :

Tanggal : 3-Nov-08
Jenis pengujian triaksial : UU - test
Diuji oleh : Taufik Hidayat

Data alat :
Load ring constant (LRC) 0.364 kg/div
Strain rate 1.00 mm/menit

Data sampel :
Kode sampel :
Diameter (ϕ) : 3.82 cm
Tinggi awal (Ho) : 7.56 cm
Luas penampang (Ao) : 11.46 cm2
Volume (V) : 131.35 cm3

Waktu Berjalan	Deformasi (ΔH) Dial Reading		Beban (P) Dial Reading		Tegangan Sel	Regangan (ε)	Faktor Koreksi Luas	Luas Pen. Terkoreksi	Tegangan Deviator
	1 div =	0.001 cm	1 div =	0.364 kg	(σ_3)	(ΔH/Ho)	(1-ε)	(Ao/[1-ε])	(σ_1-σ_3)
(menit)	(div)	(cm)	(div)	(kg)	(kg/cm2)	(%)		(cm2)	(kg/cm2)
	0	0.000	0	0.000	1.500	0.000	1.000	11.461	0.000
	25	0.025	2	0.728	1.500	0.331	0.997	11.499	0.063
	50	0.050	6	2.184	1.500	0.661	0.993	11.537	0.189
	75	0.075	7.8	2.839	1.500	0.992	0.990	11.576	0.245
	100	0.100	9	3.276	1.500	1.323	0.987	11.614	0.282
	125	0.125	10	3.640	1.500	1.653	0.983	11.654	0.312
	150	0.150	10.9	3.968	1.500	1.984	0.980	11.693	0.339
	175	0.175	11.7	4.259	1.500	2.315	0.977	11.732	0.363
	200	0.200	12.2	4.441	1.500	2.646	0.974	11.772	0.377
	225	0.225	13	4.732	1.500	2.976	0.970	11.812	0.401
	250	0.250	13.5	4.914	1.500	3.307	0.967	11.853	0.415
	275	0.275	14	5.096	1.500	3.638	0.964	11.893	0.428
	300	0.300	14.5	5.278	1.500	3.968	0.960	11.934	0.442
	325	0.325	15	5.460	1.500	4.299	0.957	11.976	0.456
	350	0.350	15.6	5.678	1.500	4.630	0.954	12.017	0.473
	375	0.375	16	5.824	1.500	4.960	0.950	12.059	0.483
	400	0.400	16.3	5.933	1.500	5.291	0.947	12.101	0.490
	425	0.425	16.8	6.115	1.500	5.622	0.944	12.144	0.504
	450	0.450	17	6.188	1.500	5.952	0.940	12.186	0.508
	475	0.475	17.2	6.261	1.500	6.283	0.937	12.229	0.512
	500	0.500	17.6	6.406	1.500	6.614	0.934	12.273	0.522
	525	0.525	18	6.552	1.500	6.944	0.931	12.316	0.532
	550	0.550	18.2	6.625	1.500	7.275	0.927	12.360	0.536
	575	0.575	18.55	6.752	1.500	7.606	0.924	12.404	0.544
	600	0.600	18.8	6.843	1.500	7.937	0.921	12.449	0.550
	625	0.625	19	6.916	1.500	8.267	0.917	12.494	0.554
	650	0.650	19.15	6.971	1.500	8.598	0.914	12.539	0.556
	675	0.675	19.4	7.062	1.500	8.929	0.911	12.584	0.561
	700	0.700	19.8	7.207	1.500	9.259	0.907	12.630	0.571
	725	0.725	20	7.280	1.500	9.590	0.904	12.677	0.574
	750	0.750	20.1	7.316	1.500	9.921	0.901	12.723	0.575
	775	0.775	20.15	7.335	1.500	10.251	0.897	12.770	0.574
	800	0.800	20.25	7.371	1.500	10.582	0.894	12.817	0.575
	825	0.825	20.6	7.498	1.500	10.913	0.891	12.865	0.583
	850	0.850	20.8	7.571	1.500	11.243	0.888	12.913	0.586
	875	0.875	21	7.644	1.500	11.574	0.884	12.961	0.590
	900	0.900	21.1	7.680	1.500	11.905	0.881	13.010	0.590
	925	0.925	21.25	7.735	1.500	12.235	0.878	13.059	0.592
	950	0.950	21.4	7.790	1.500	12.566	0.874	13.108	0.594
	975	0.975	21.8	7.935	1.500	12.897	0.871	13.158	0.603
	1000	1.000	21.9	7.972	1.500	13.228	0.868	13.208	0.604
	1025	1.025	22	8.008	1.500	13.558	0.864	13.258	0.604
	1050	1.050	21.15	7.699	1.500	13.889	0.861	13.309	0.578
	1075	1.075	22.2	8.081	1.500	14.220	0.858	13.361	0.605
	1100	1.100	22.3	8.117	1.500	14.550	0.854	13.412	0.605
	1125	1.125	22.4	8.154	1.500	14.881	0.851	13.464	0.606
	1150	1.150	22.8	8.299	1.500	15.212	0.848	13.517	0.614
	1175	1.175	22.85	8.317	1.500	15.542	0.845	13.570	0.613
	1200	1.200	22.95	8.354	1.500	15.873	0.841	13.623	0.613
	1225	1.225	23	8.372	1.500	16.204	0.838	13.677	0.612
	1250	1.250	23.1	8.408	1.500	16.534	0.835	13.731	0.612
	1275	1.275	23.2	8.445	1.500	16.865	0.831	13.786	0.613
	1300	1.300	23.3	8.481	1.500	17.196	0.828	13.841	0.613
	1325	1.325	23.4	8.518	1.500	17.526	0.825	13.896	0.613
	1350	1.350	23.5	8.554	1.500	17.857	0.821	13.952	0.613
	1375	1.375	23.6	8.590	1.500	18.188	0.818	14.009	0.613
	1400	1.400	23.8	8.663	1.500	18.519	0.815	14.066	0.616
	1425	1.425	23.9	8.700	1.500	18.849	0.812	14.123	0.616
	1450	1.450	24	8.736	1.500	19.180	0.808	14.181	0.616
	1475	1.475	24	8.736	1.500	19.511	0.805	14.239	0.614
	1500	1.500	24	8.736	1.500	19.841	0.802	14.298	0.611

Perhitungan data :

Tegangan lateral (σ_3) =	**1.500** kg/cm2
Tegangan deviator maksimum ($\Delta\sigma = \sigma_1-\sigma_3$) =	**0.616** kg/cm2
Tegangan vertikal maksimum ($\sigma_1 = \Delta\sigma+\sigma_3$) =	**2.116** kg/cm2
Regangan saat tegangan vertikal maximum =	**19.180** %

TRIAXIAL COMPRESSION TEST

Proyek	: Skripsi grup kaoline	Tanggal:	3-Nov-08
Lokasi	: Lab. MekTan FTUI		
Deskripsi tanah	: Kaoline Pc=100 kPa, *w*o=100%	Jenis pengujian	
No. pengeboran	: ---	Triaksial:	UU - test
No. sampel	: ---		
Kedalaman	: ---	Diuji oleh:	Taufik Hidayat

No. sampel		1	2	3	Catatan
Kode sampel		-	-	0	
Teg. normal saat runtuh ($\Delta\sigma$)	(kg/cm2)	0.36	0.60	0.62	
Tegangan lateral (σ_3)	(kg/cm2)	0.50	1.00	1.50	
Tegangan normal total (σ_1)	(kg/cm2)	0.86	1.60	2.12	
Regangan saat runtuh	(%)	16.20	14.82	19.18	

Berat jenis tanah basah (γ_{wet}) = 1.627 gr/cm3

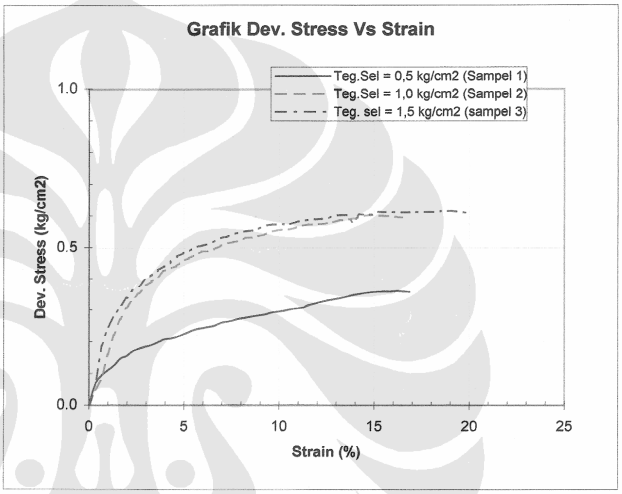
Berat jenis tanah kering (γ_{dry}) = 1.027 gr/cm3

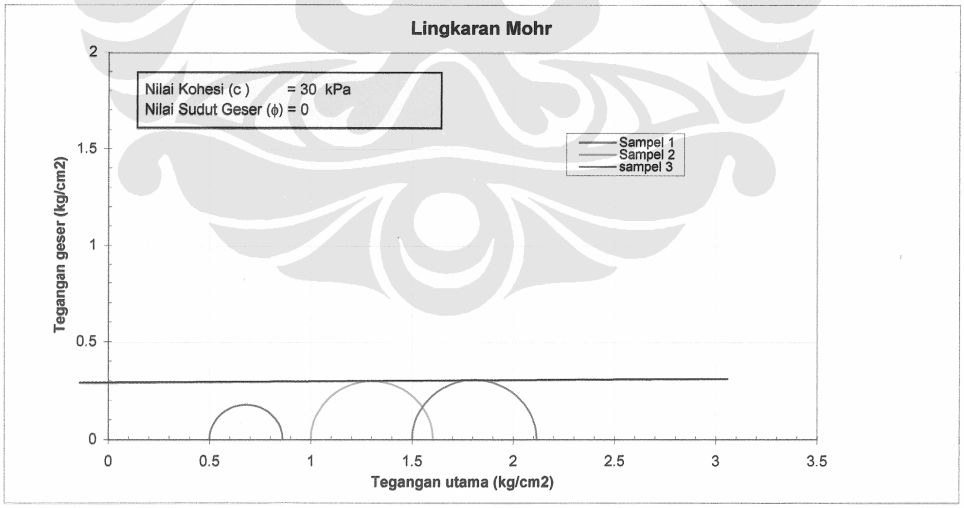
Kadar air (*w*) = 58.44 %

Nilai tahanan kohesi (c) = 0.3 kg/cm2

Nilai tahanan sudut geser (ϕ) = 0

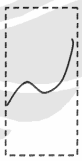
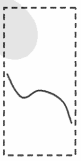
Strain rate = 1 mm/min





TRIAXIAL COMPRESSION TEST

Proyek	:Skripsi grup kaoline	Tanggal	: 3-Dec-08
Lokasi	:Lab. MekTan FTUI		
Deskripsi tanah	:Kaoline Pc=200 kPa, *w* o=100%	Jenis pengujiar	: UU - test
No. pengeboran			
No. sampel		Diuji oleh	: Taufik Hidayat
Kedalaman			

		Unit	Data sampel			Catatan
	No. Sampel		1	2	3	
	Kode Sampel		-	-		
(a)	Berat can	(gr)	0.00	0.00	0.00	
(b)	Berat can + tanah basah	(gr)	118.43	142.17	120.17	
(c)	Berat can + tanah kering	(gr)	76.21	77.40	90.80	
(b-c)	Berat air	(gr)	42.22	64.77	29.37	
(c-a)	Berat tanah kering	(gr)	76.21	77.40	90.80	
(b-c)/(c-a)	Kadar air (*w*)	(%)	55.40	83.68	32.35	
	Kadar air rata-rata (*w*)	(%)	57.14			
(d)	Tinggi sampel (*Ho*)	(cm)	7.10	7.60	7.20	
(e)	Diameter sampel (*Do*)	(cm)	3.60	3.80	3.60	
(f)	Luas (*Ao*)	(cm2)	10.18	11.34	10.18	
(g)	Volume (*Vo*)	(cm3)	72.27	86.19	73.29	
(b-a)/(g)	Berat jenis tanah basah (γ_{wet})	(gr/cm3)	1.639	1.649	1.640	
(c-a)/(g)	Berat jenis tanah kering (γ_{dry})	(gr/cm3)	1.055	0.898	1.239	
	Rata-rata (γ_{wet})	(gr/cm3)	1.643			
	Rata-rata (γ_{dry})	(gr/cm3)	1.064			
	Tegangan lateral / sel pada sampel (σ_3)	(kg/cm2)	0.50	1.00	1.50	
	Tipe keruntuhan					
						

TRIAXIAL COMPRESSION TEST

Proyek	:Skripsi grup kaoline	Tanggal	: 3-Dec-08
Lokasi	:Lab. MekTan FTUI	Jenis pengujian triaksial	: UU - test
Deskripsi tanah	:Kaoline Pc=200 kPa, *w* o=100%	Diuji oleh	: Taufik Hidayat
No. pengeboran	:		
No. sampel	:1	*Data sampel :*	
Kedalaman	:	Kode sampel	: -
		Diameter (ϕ)	: 3.60 cm
Data alat :		Tinggi awal (Ho)	: 7.10 cm
Load ring constant (LRC)	0.196 kg/div	Luas penampang (Ao)	: 10.18 cm2
Strain rate	1.00 mm/menit	Volume (V)	: 103.61 cm3

Waktu Berjalan	Deformasi (ΔH) Dial Reading		Beban (P) Dial Reading		Tegangan Sel (σ_3)	Regangan (ε) (ΔH/Ho)	Faktor Koreksi Luas (1-ε)	Luas Pen. Terkoreksi (Ao/[1-ε])	Tegangan Deviator (σ_1-σ_3)
	1 div =	0.001 cm	1 div =	0.196 kg					
(menit)	(div)	(cm)	(div)	(kg)	(kg/cm2)	(%)		(cm2)	(kg/cm2)
	0	0.000	0	0.000	0.500	0.000	1.000	10.179	0.000
	25	0.025	9	1.764	0.500	0.352	0.996	10.215	0.173
	50	0.050	12	2.352	0.500	0.704	0.993	10.251	0.229
	75	0.075	15	2.940	0.500	1.056	0.989	10.287	0.286
	100	0.100	17.5	3.430	0.500	1.408	0.986	10.324	0.332
	125	0.125	19	3.724	0.500	1.761	0.982	10.361	0.359
	150	0.150	21.5	4.214	0.500	2.113	0.979	10.398	0.405
	175	0.175	23.8	4.665	0.500	2.465	0.975	10.436	0.447
	200	0.200	26	5.096	0.500	2.817	0.972	10.474	0.487
	225	0.225	27.8	5.449	0.500	3.169	0.968	10.512	0.518
	250	0.250	28.8	5.645	0.500	3.521	0.965	10.550	0.535
	275	0.275	31	6.076	0.500	3.873	0.961	10.589	0.574
	300	0.300	32.8	6.429	0.500	4.225	0.958	10.628	0.605
	325	0.325	34.8	6.821	0.500	4.577	0.954	10.667	0.639
	350	0.350	36	7.056	0.500	4.930	0.951	10.707	0.659
	375	0.375	37.5	7.350	0.500	5.282	0.947	10.746	0.684
	400	0.400	38.4	7.526	0.500	5.634	0.944	10.786	0.698
	425	0.425	39	7.644	0.500	5.986	0.940	10.827	0.706
	450	0.450	41	8.036	0.500	6.338	0.937	10.868	0.739
	475	0.475	42	8.232	0.500	6.690	0.933	10.909	0.755
	500	0.500	43.5	8.526	0.500	7.042	0.930	10.950	0.779
	525	0.525	44.5	8.722	0.500	7.394	0.926	10.992	0.794
	550	0.550	45.4	8.898	0.500	7.746	0.923	11.033	0.806
	575	0.575	46.3	9.075	0.500	8.099	0.919	11.076	0.819
	600	0.600	47	9.212	0.500	8.451	0.915	11.118	0.829
	625	0.625	47.5	9.310	0.500	8.803	0.912	11.161	0.834
	650	0.650	48.2	9.447	0.500	9.155	0.908	11.205	0.843
	675	0.675	49	9.604	0.500	9.507	0.905	11.248	0.854
	700	0.700	49.5	9.702	0.500	9.859	0.901	11.292	0.859
	725	0.725	50	9.800	0.500	10.211	0.898	11.336	0.864
	750	0.750	50.8	9.957	0.500	10.563	0.894	11.381	0.875
	775	0.775	51	9.996	0.500	10.915	0.891	11.426	0.875
	800	0.800	51.7	10.133	0.500	11.268	0.887	11.471	0.883
	825	0.825	52	10.192	0.500	11.620	0.884	11.517	0.885
	850	0.850	52.5	10.290	0.500	11.972	0.880	11.563	0.890
	875	0.875	52.8	10.349	0.500	12.324	0.877	11.610	0.891
	900	0.900	53.3	10.447	0.500	12.676	0.873	11.656	0.896
	925	0.925	53.5	10.486	0.500	13.028	0.870	11.704	0.896
	950	0.950	53.8	10.545	0.500	13.380	0.866	11.751	0.897
	975	0.975	54.4	10.662	0.500	13.732	0.863	11.799	0.904
	1000	1.000	54.5	10.682	0.500	14.085	0.859	11.847	0.902
	1025	1.025	54.6	10.702	0.500	14.437	0.856	11.896	0.900
	1050	1.050	54.9	10.760	0.500	14.789	0.852	11.945	0.901
	1075	1.075	55	10.780	0.500	15.141	0.849	11.995	0.899
	1100	1.100	55.2	10.819	0.500	15.493	0.845	12.045	0.898
	1125	1.125	55.4	10.858	0.500	15.845	0.842	12.095	0.898
	1150	1.150	55.5	10.878	0.500	16.197	0.838	12.146	0.896
	1175	1.175	55.5	10.878	0.500	16.549	0.835	12.197	0.892
	1200	1.200	55.6	10.898	0.500	16.901	0.831	12.249	0.890
	1225	1.225	55.8	10.937	0.500	17.254	0.827	12.301	0.889
	1250	1.250	55.9	10.956	0.500	17.606	0.824	12.354	0.887
	1275	1.275	56	10.976	0.500	17.958	0.820	12.407	0.885
	1300	1.300	56.5	11.074	0.500	18.310	0.817	12.460	0.889
	1325	1.325	56.7	11.113	0.500	18.662	0.813	12.514	0.888
	1350	1.350	56.8	11.133	0.500	19.014	0.810	12.569	0.886
	1375	1.375	57	11.172	0.500	19.366	0.806	12.623	0.885
	1400	1.400	57	11.172	0.500	19.718	0.803	12.679	0.881
	1425	1.425	57	11.172	0.500	20.070	0.799	12.735	0.877

Perhitungan data :

Tegangan lateral (σ_3) =	**0.500** kg/cm2
Tegangan deviator maksimum ($\Delta\sigma = \sigma_1-\sigma_3$) =	**0.904** kg/cm2
Tegangan vertikal maksimum ($\sigma_1 = \Delta\sigma+\sigma_3$) =	**1.404** kg/cm2
Regangan saat tegangan vertikal maximum =	**13.732** %

TRIAXIAL COMPRESSION TEST

Proyek	:Skripsi grup kaoline	Tanggal	: 3-Dec-08
Lokasi	:Lab. MekTan FTUI	Jenis pengujian triaksial	: UU - test
Deskripsi tanah	:Kaoline Pc=200 kPa, *w*o=100%	Diuji oleh	: Taufik Hidayat
No. pengeboran	:		
No. sampel	:2	*Data sampel :*	
Kedalaman	:	Kode sampel	: -
		Diameter (ϕ)	: 3.80 cm
Data alat :		Tinggi awal (Ho)	: 7.60 cm
Load ring constant (LRC)	0.196 kg/div	Luas penampang (Ao)	: 11.34 cm2
Strain rate	1.00 mm/menit	Volume (V)	: 128.62 cm3

Waktu Berjalan	Deformasi (ΔH) Dial Reading		Beban (P) Dial Reading		Tegangan Sel (σ_3)	Regangan (ε) (ΔH/Ho)	Faktor Koreksi Luas (1-ε)	Luas Pen. Terkoreksi (Ao/[1-ε])	Tegangan Deviator (σ_1-σ_3)
	1 div =	0.001 cm	1 div =	0.196 kg					
(menit)	(div)	(cm)	(div)	(kg)	(kg/cm2)	(%)		(cm2)	(kg/cm2)
	0	0.000	0	0.000	1.000	0.000	1.000	11.341	0.000
	25	0.025	10	1.960	1.000	0.329	0.997	11.379	0.172
	50	0.050	12	2.352	1.000	0.658	0.993	11.416	0.206
	75	0.075	15	2.940	1.000	0.987	0.990	11.454	0.257
	100	0.100	18	3.528	1.000	1.316	0.987	11.492	0.307
	125	0.125	20.5	4.018	1.000	1.645	0.984	11.531	0.348
	150	0.150	22.5	4.410	1.000	1.974	0.980	11.569	0.381
	175	0.175	24	4.704	1.000	2.303	0.977	11.608	0.405
	200	0.200	26.5	5.194	1.000	2.632	0.974	11.648	0.446
	225	0.225	29	5.684	1.000	2.961	0.970	11.687	0.486
	250	0.250	31	6.076	1.000	3.289	0.967	11.727	0.518
	275	0.275	32	6.272	1.000	3.618	0.964	11.767	0.533
	300	0.300	33.5	6.566	1.000	3.947	0.961	11.807	0.556
	325	0.325	36	7.056	1.000	4.276	0.957	11.848	0.596
	350	0.350	38	7.448	1.000	4.605	0.954	11.889	0.626
	375	0.375	39.5	7.742	1.000	4.934	0.951	11.930	0.649
	400	0.400	40.5	7.938	1.000	5.263	0.947	11.971	0.663
	425	0.425	41.5	8.134	1.000	5.592	0.944	12.013	0.677
	450	0.450	42	8.232	1.000	5.921	0.941	12.055	0.683
	475	0.475	43	8.428	1.000	6.250	0.938	12.097	0.697
	500	0.500	44	8.624	1.000	6.579	0.934	12.140	0.710
	525	0.525	45	8.820	1.000	6.908	0.931	12.183	0.724
	550	0.550	46	9.016	1.000	7.237	0.928	12.226	0.737
	575	0.575	47.1	9.232	1.000	7.566	0.924	12.269	0.752
	600	0.600	48.2	9.447	1.000	7.895	0.921	12.313	0.767
	625	0.625	49	9.604	1.000	8.224	0.918	12.357	0.777
	650	0.650	50	9.800	1.000	8.553	0.914	12.402	0.790
	675	0.675	50.5	9.898	1.000	8.882	0.911	12.447	0.795
	700	0.700	51.2	10.035	1.000	9.211	0.908	12.492	0.803
	725	0.725	51.8	10.153	1.000	9.539	0.905	12.537	0.810
	750	0.750	52.5	10.290	1.000	9.868	0.901	12.583	0.818
	775	0.775	52.7	10.329	1.000	10.197	0.898	12.629	0.818
	800	0.800	53	10.388	1.000	10.526	0.895	12.675	0.820
	825	0.825	53.2	10.427	1.000	10.855	0.891	12.722	0.820
	850	0.850	53.7	10.525	1.000	11.184	0.888	12.769	0.824
	875	0.875	54.4	10.662	1.000	11.513	0.885	12.817	0.832
	900	0.900	54.8	10.741	1.000	11.842	0.882	12.865	0.835
	925	0.925	55.1	10.800	1.000	12.171	0.878	12.913	0.836
	950	0.950	55.4	10.858	1.000	12.500	0.875	12.961	0.838
	975	0.975	55.6	10.898	1.000	12.829	0.872	13.010	0.838
	1000	1.000	55.9	10.956	1.000	13.158	0.868	13.060	0.839
	1025	1.025	56.2	11.015	1.000	13.487	0.865	13.109	0.840
	1050	1.050	56.5	11.074	1.000	13.816	0.862	13.159	0.842
	1075	1.075	56.8	11.133	1.000	14.145	0.859	13.210	0.843
	1100	1.100	57	11.172	1.000	14.474	0.855	13.260	0.843
	1125	1.125	57.2	11.211	1.000	14.803	0.852	13.312	0.842
	1150	1.150	57.5	11.270	1.000	15.132	0.849	13.363	0.843
	1175	1.175	57.7	11.309	1.000	15.461	0.845	13.415	0.843
	1200	1.200	58	11.368	1.000	15.789	0.842	13.468	0.844
	1225	1.225	58.1	11.388	1.000	16.118	0.839	13.520	0.842
	1250	1.250	58.2	11.407	1.000	16.447	0.836	13.574	0.840
	1275	1.275	58.4	11.446	1.000	16.776	0.832	13.627	0.840
	1300	1.300	58.5	11.466	1.000	17.105	0.829	13.681	0.838
	1325	1.325	58.8	11.525	1.000	17.434	0.826	13.736	0.839
	1350	1.350	58.9	11.544	1.000	17.763	0.822	13.791	0.837
	1375	1.375	59	11.564	1.000	18.092	0.819	13.846	0.835
	1400	1.400	59.1	11.584	1.000	18.421	0.816	13.902	0.833
	1425	1.425	59.2	11.603	1.000	18.750	0.813	13.958	0.831
	1450	1.450	59.4	11.642	1.000	19.079	0.809	14.015	0.831
	1475	1.475	59.4	11.642	1.000	19.408	0.806	14.072	0.827
	1500	1.500	59.6	11.682	1.000	19.737	0.803	14.130	0.827
	1525	1.525	59.6	11.682	1.000	20.066	0.799	14.188	0.823
	1550	1.550	59.8	11.721	1.000	20.395	0.796	14.247	0.823
	1575	1.575	60	11.760	1.000	20.724	0.793	14.306	0.822
	1600	1.600	60	11.760	1.000	21.053	0.789	14.365	0.819

Perhitungan data :

Tegangan lateral (σ_3) =	**1.000** kg/cm2
Tegangan deviator maksimum ($\Delta\sigma = \sigma_1$-σ_3) =	**0.844** kg/cm2
Tegangan vertikal maksimum ($\sigma_1 = \Delta\sigma$+σ_3) =	**1.844** kg/cm2
Regangan saat tegangan vertikal maximum =	**15.789** %

TRIAXIAL COMPRESSION TEST

Proyek	:Skripsi grup kaoline	Tanggal	: 3-Dec-08
Lokasi	:Lab. MekTan FTUI	Jenis pengujian triaksial	: UU - test
Deskripsi tanah	:Kaoline Pc=200 kPa, *w*o=100%	Diuji oleh	: Taufik Hidayat
No. pengeboran	:		
No. sampel	:3	*Data sampel :*	
Kedalaman	:	Kode sampel	:
		Diameter (ϕ)	: 3.60 cm
Data alat :		Tinggi awal (Ho)	: 7.20 cm
Load ring constant (LRC)	0.196 kg/div	Luas penampang (Ao)	: 10.18 cm2
Strain rate	1.00 mm/menit	Volume (V)	: 103.61 cm3

Waktu Berjalan	Deformasi (ΔH) Dial Reading		Beban (P) Dial Reading		Tegangan Sel	Regangan (ε)	Faktor Koreksi Luas	Luas Pen. Terkoreksi	Tegangan Deviator
	1 div =	0.001 cm	1 div =	0.196 kg	(σ_3)	(ΔH/Ho)	(1-ε)	(Ao/[1-ε])	(σ_1-σ_3)
(menit)	(div)	(cm)	(div)	(kg)	(kg/cm2)	(%)		(cm2)	(kg/cm2)
	0	0.000	0	0.000	1.500	0.000	1.000	10.179	0.000
	25	0.025	11	2.156	1.500	0.347	0.997	10.214	0.211
	50	0.050	14	2.744	1.500	0.694	0.993	10.250	0.268
	75	0.075	16.8	3.293	1.500	1.042	0.990	10.286	0.320
	100	0.100	19	3.724	1.500	1.389	0.986	10.322	0.361
	125	0.125	20.5	4.018	1.500	1.736	0.983	10.359	0.388
	150	0.150	23.8	4.665	1.500	2.083	0.979	10.395	0.449
	175	0.175	26	5.096	1.500	2.431	0.976	10.432	0.488
	200	0.200	28.2	5.527	1.500	2.778	0.972	10.470	0.528
	225	0.225	30	5.880	1.500	3.125	0.969	10.507	0.560
	250	0.250	30.8	6.037	1.500	3.472	0.965	10.545	0.572
	275	0.275	33.5	6.566	1.500	3.819	0.962	10.583	0.620
	300	0.300	35.3	6.919	1.500	4.167	0.958	10.621	0.651
	325	0.325	37	7.252	1.500	4.514	0.955	10.660	0.680
	350	0.350	38	7.448	1.500	4.861	0.951	10.699	0.696
	375	0.375	39.3	7.703	1.500	5.208	0.948	10.738	0.717
	400	0.400	40.2	7.879	1.500	5.556	0.944	10.778	0.731
	425	0.425	41	8.036	1.500	5.903	0.941	10.817	0.743
	450	0.450	42.5	8.330	1.500	6.250	0.938	10.857	0.767
	475	0.475	44	8.624	1.500	6.597	0.934	10.898	0.791
	500	0.500	45	8.820	1.500	6.944	0.931	10.938	0.806
	525	0.525	45.6	8.938	1.500	7.292	0.927	10.979	0.814
	550	0.550	46.5	9.114	1.500	7.639	0.924	11.021	0.827
	575	0.575	47.2	9.251	1.500	7.986	0.920	11.062	0.836
	600	0.600	48	9.408	1.500	8.333	0.917	11.104	0.847
	625	0.625	48.5	9.506	1.500	8.681	0.913	11.146	0.853
	650	0.650	49.1	9.624	1.500	9.028	0.910	11.189	0.860
	675	0.675	49.8	9.761	1.500	9.375	0.906	11.232	0.869
	700	0.700	50.1	9.820	1.500	9.722	0.903	11.275	0.871
	725	0.725	50.5	9.898	1.500	10.069	0.899	11.318	0.875
	750	0.750	51	9.996	1.500	10.417	0.896	11.362	0.880
	775	0.775	52	10.192	1.500	10.764	0.892	11.407	0.894
	800	0.800	52.8	10.349	1.500	11.111	0.889	11.451	0.904
	825	0.825	53.2	10.427	1.500	11.458	0.885	11.496	0.907
	850	0.850	53.5	10.486	1.500	11.806	0.882	11.541	0.909
	875	0.875	54.2	10.623	1.500	12.153	0.878	11.587	0.917
	900	0.900	54.8	10.741	1.500	12.500	0.875	11.633	0.923
	925	0.925	55	10.780	1.500	12.847	0.872	11.679	0.923
	950	0.950	55.8	10.937	1.500	13.194	0.868	11.726	0.933
	975	0.975	56	10.976	1.500	13.542	0.865	11.773	0.932
	1000	1.000	56.5	11.074	1.500	13.889	0.861	11.820	0.937
	1025	1.025	57	11.172	1.500	14.236	0.858	11.868	0.941
	1050	1.050	57.4	11.250	1.500	14.583	0.854	11.917	0.944
	1075	1.075	57.8	11.329	1.500	14.931	0.851	11.965	0.947
	1100	1.100	58.1	11.388	1.500	15.278	0.847	12.014	0.948
	1125	1.125	58.3	11.427	1.500	15.625	0.844	12.064	0.947
	1150	1.150	58.6	11.486	1.500	15.972	0.840	12.114	0.948
	1175	1.175	58.8	11.525	1.500	16.319	0.837	12.164	0.947
	1200	1.200	58.9	11.544	1.500	16.667	0.833	12.215	0.945
	1225	1.225	59	11.564	1.500	17.014	0.830	12.266	0.943
	1250	1.250	59.4	11.642	1.500	17.361	0.826	12.317	0.945
	1275	1.275	59.6	11.682	1.500	17.708	0.823	12.369	0.944
	1300	1.300	59.8	11.721	1.500	18.056	0.819	12.422	0.944
	1325	1.325	59.9	11.740	1.500	18.403	0.816	12.474	0.941
	1350	1.350	60	11.760	1.500	18.750	0.813	12.528	0.939
	1375	1.375	60.2	11.799	1.500	19.097	0.809	12.581	0.938
	1400	1.400	60.6	11.878	1.500	19.444	0.806	12.636	0.940
	1425	1.425	60.7	11.897	1.500	19.792	0.802	12.690	0.937
	1450	1.450	60.8	11.917	1.500	20.139	0.799	12.746	0.935
	1475	1.475	61	11.956	1.500	20.486	0.795	12.801	0.934
	1500	1.500	61	11.956	1.500	20.833	0.792	12.857	0.930
	1525	1.525	61	11.956	1.500	21.181	0.788	12.914	0.926

Perhitungan data :

Tegangan lateral (σ_3) =	**1.500** kg/cm2
Tegangan deviator maksimum ($\Delta\sigma = \sigma_1-\sigma_3$) =	**0.948** kg/cm2
Tegangan vertikal maksimum ($\sigma_1 = \Delta\sigma+\sigma_3$) =	**2.448** kg/cm2
Regangan saat tegangan vertikal maximum =	**15.972** %

TRIAXIAL COMPRESSION TEST

Proyek	: Skripsi grup kaoline		Tanggal:	3-Dec-08
Lokasi	: Lab. MekTan FTUI			
Deskripsi tanah	: Kaoline Pc=200 kPa, *w*o=100%		Jenis pengujian	
No. pengeboran	: ---		Triaksial:	UU - test
No. sampel	: ---			
Kedalaman	: ---		Diuji oleh:	Taufik Hidayat

No. sampel		1	2	3	Catatan
Kode sampel		-	-	0	
Teg. normal saat runtuh ($\Delta\sigma$)	(kg/cm2)	0.90	0.84	0.95	
Tegangan lateral (σ_3)	(kg/cm2)	0.50	1.00	1.50	
Tegangan normal total (σ_1)	(kg/cm2)	1.40	1.84	2.45	
Regangan saat runtuh	(%)	13.73	15.79	15.97	

Berat jenis tanah basah (γ_{wet}) = 1.643 gr/cm3

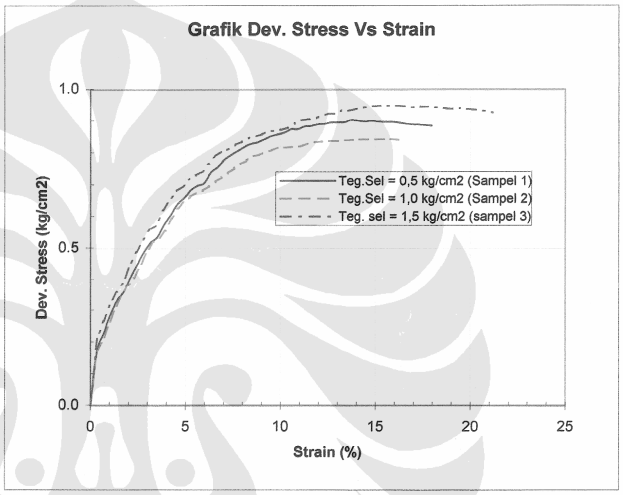
Berat jenis tanah kering (γ_{dry}) = 1.064 gr/cm3

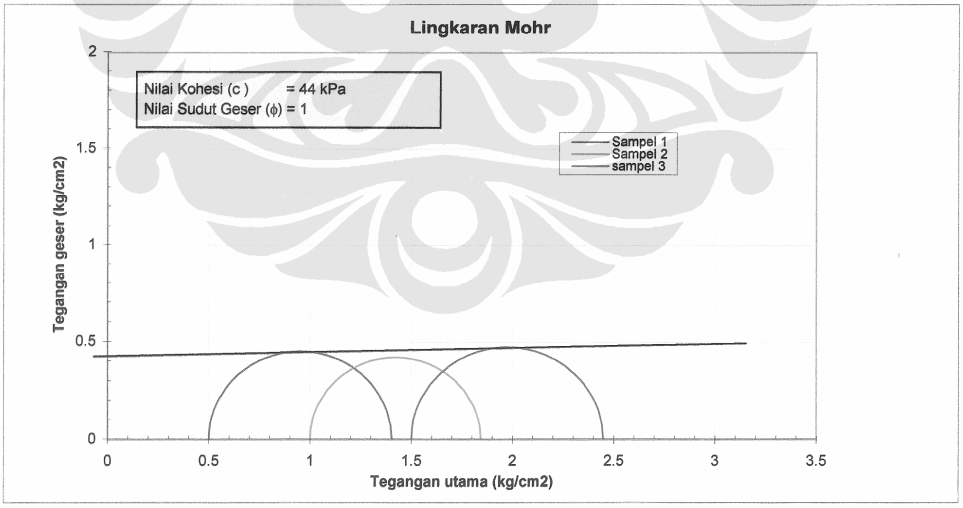
Kadar air (*w*) = 57.14 %

Nilai tahanan kohesi (c) = 0.44 kg/cm2

Nilai tahanan sudut geser (ϕ) = 1

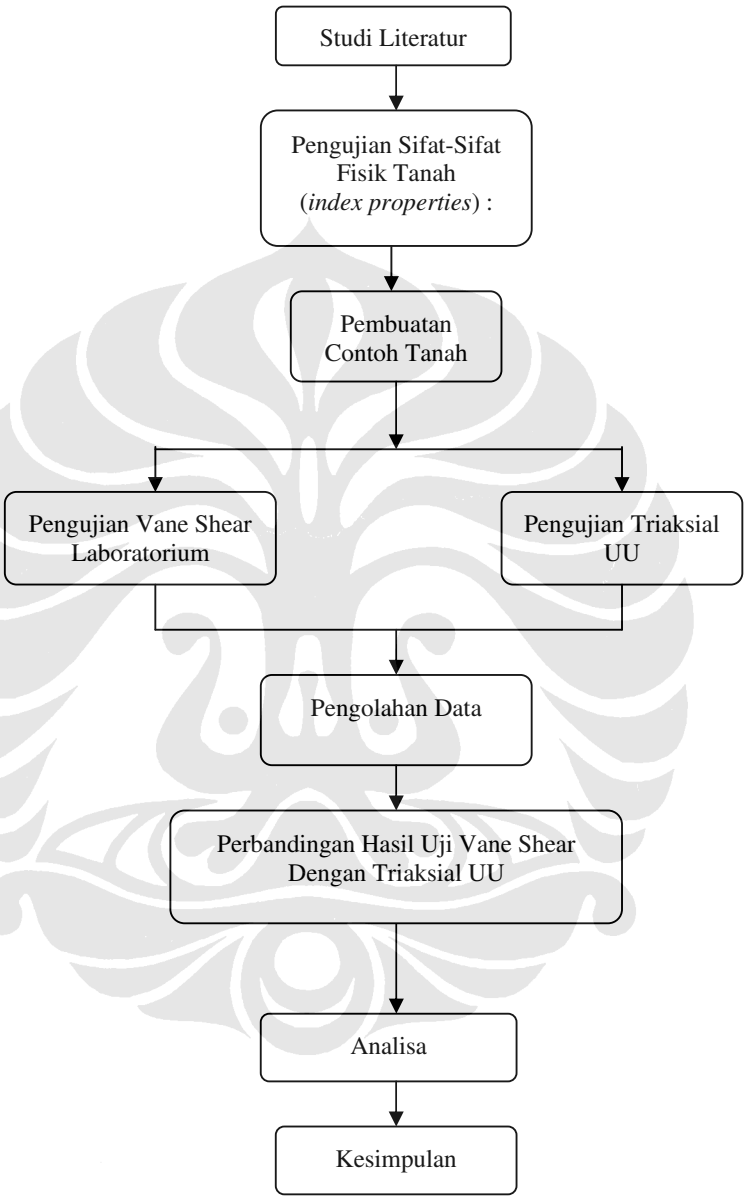
Strain rate = 1 mm/min





LAMPIRAN 2

1. Diagram Alir Pengujian Kuat Geser Tanah Kaolin



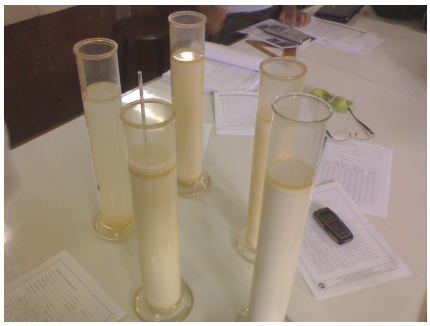
2. Gambar Pengujian Atterberg Limit

- Pengujian Liquid Limit (Alat Cassagrande)

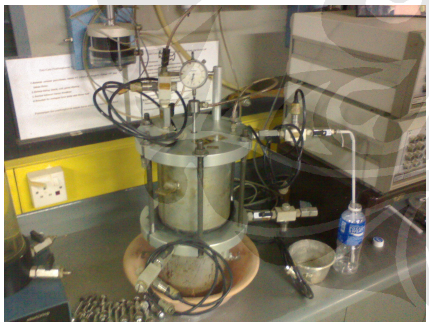

- Pengujian Plastic Limit

3. Gambar Pengujian Specific Gravity (Alat Pycnometer)

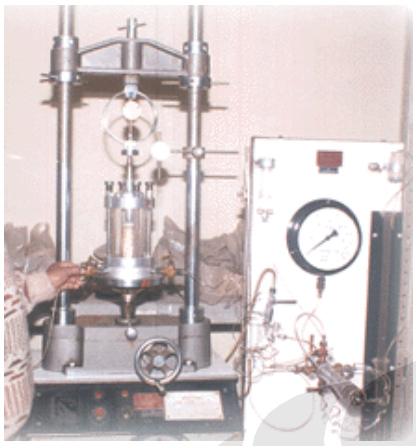

4. Gambar Pengujian Hydrometer



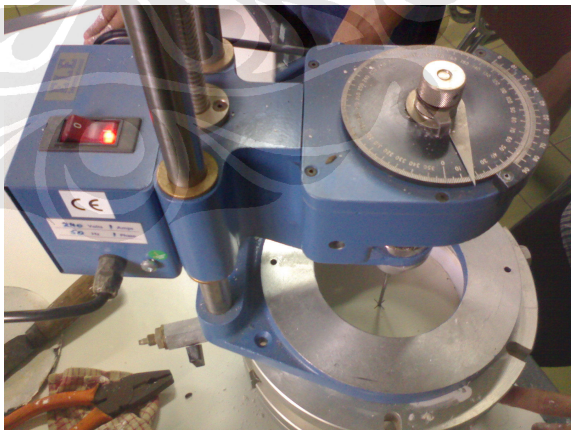
5. Gambar Pembuatan Contoh Tanah (Alat Rowe Cell)



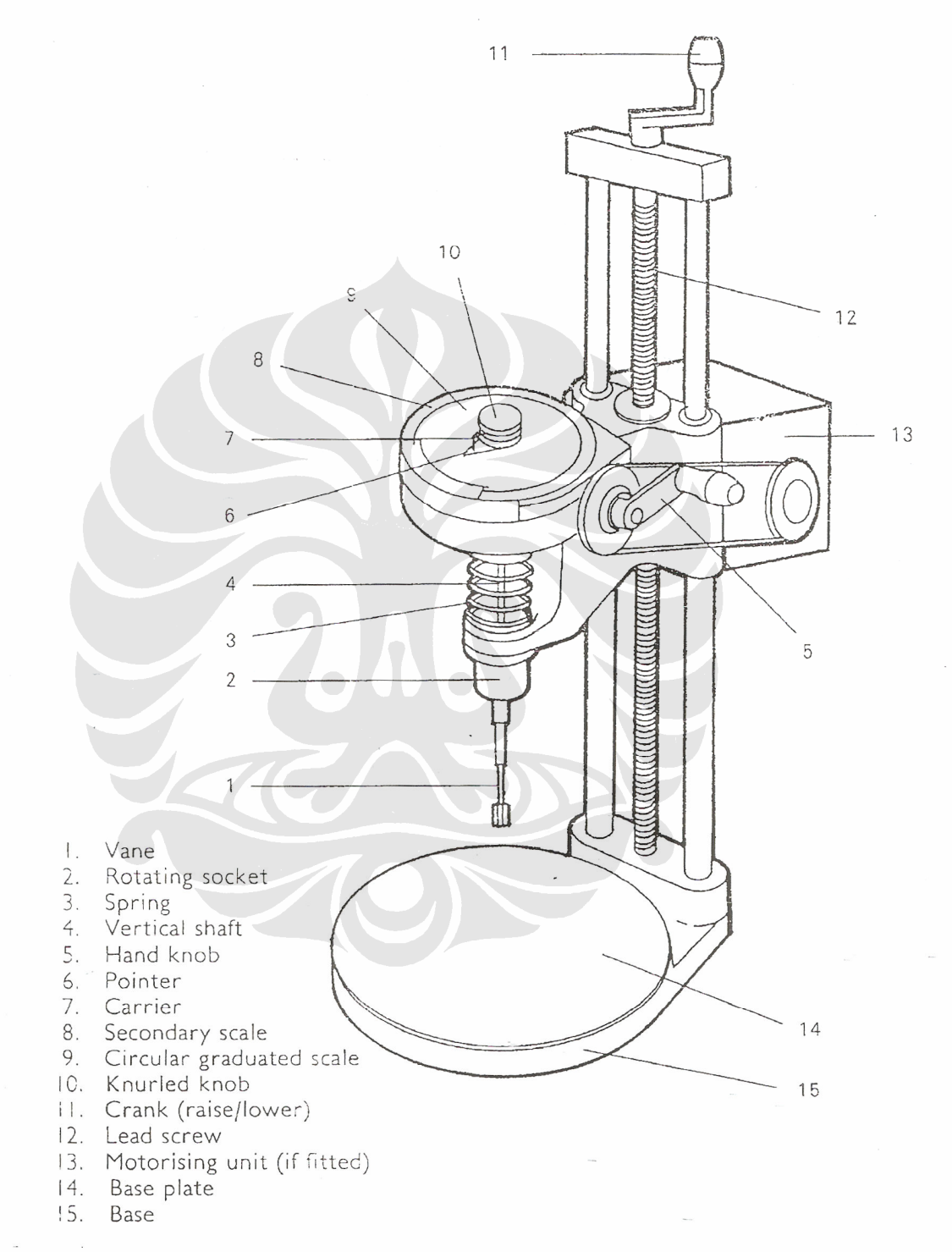
6. Gambar Pengujian Triaksial UU



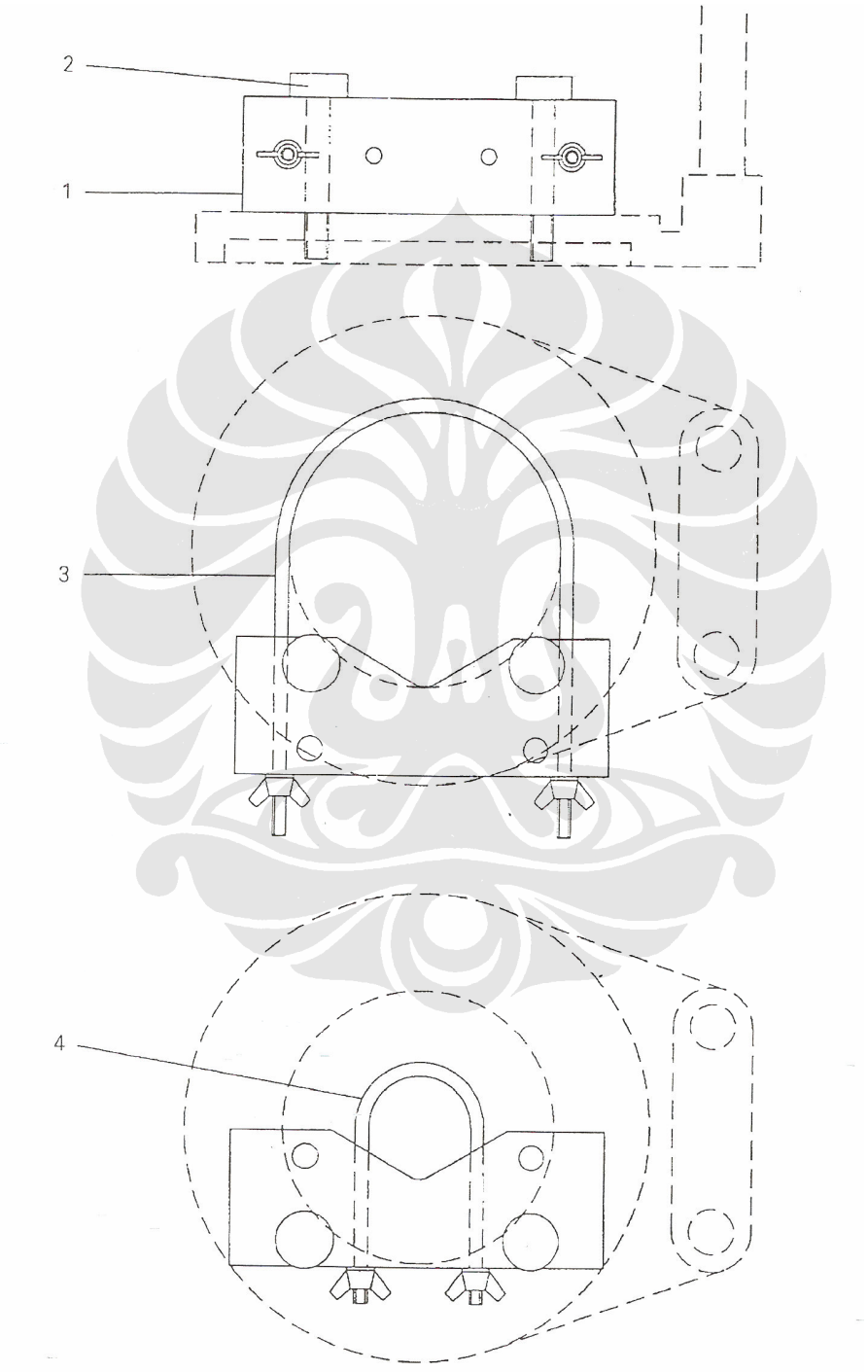
7. Gambar Pengujian Vane Shear Laboratorium



8. Gambar Komponen-Komponen Vane Shear Laboratorium



9. Gambar Tampak Atas Vane Shear Laboratorium



10. Gambar Titik Pengujian Vane Shear Laboratorium Dan Triaksial