



YAYASAN PERGURUAN "CIKINI"
**INSTITUT
 SAINS DAN TEKNOLOGI
 NASIONAL**

**FAKULTAS TEKNIK SIPIL
 DAN PERENCANAAN
JURUSAN TEKNIK SIPIL**

P E N U G A S A N
 No : 01-05/PM/LM/V/1996

Ketua Program Studi Teknik Sipil, Fakultas Teknik Sipil dan Perencanaan Institut Sains dan Teknologi Nasional Jakarta menugaskan kepada :

Ir. Idrus, MSc Staff Jurusan Teknik Sipil

Untuk melakukan pekerjaan Penyelidikan Tanah sebagai bentuk kegiatan :
Pengabdian Pada Masyarakat pada :

Nama Pekerjaan : Penyelidikan Tanah STO TELKOM
 Lokasi : Desa Sukasari , Rumpin, Jawa Barat
 Pemberi Tugas : PT. Mutiara Reksa Teknik

Dengan jadwal pelaksanaan pekerjaan selama 20 hari kerja (160Jam), 3 hari di lapangan dan 18hari di Laboratorium

Kepada Ir. Idrus MSc diberikan kepercayaan penuh untuk melakukan pekerjaan Pengabdian Pada Masyarakat tersebut dan bertanggung jawab atas segala sesuatu mengenai pekerjaan tersebut

Kepada pelaksana tugas ini akan diberikan honorarium sesuai dengan ketentuan yang berlaku di Laboratorium Mekanika Tanah Institut Sains dan Teknologi Nasional.

Penugasan ini berlaku sejak dikeluarkan sampai dengan berakhirnya jangka waktu penyusunan Laporan Akhir (Final Report) diterima oleh pemberi kerja dengan baik.

Jakarta, 01 May 1996
 Kaprodi Teknik Sipil



Ir. Ari Mulyo Diah Utami MT
 NIP : 01.83332

Tembusan :

1. Dekan FTSP-ISTN (sbg laporan)
2. Ka. Lab. Mekanika Tanah ISTN
3. Arsip

LEMBAR PENGESAHAN PENGABDIAN PADA MASYARAKAT



**PENYELIDIKAN TANAH STO Telkom
Lokasi : Desa Sukasari, Rumpin, Jawa Barat**

Oleh :
Idrus Ir, M.Sc

Mengetahui :
Ketua Jurusan Teknik Sipil



Ir. Arimulyo Diah Utami, M.T

**Program Studi Teknik Sipil
Institut Sain dan Teknologi Nasional
Jakarta 1996**

THE JOURNAL OF THE ROYAL ANTHROPOLOGICAL INSTITUTE



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SURAT PERJANJIAN KERJASAMA

No: 30-04.1/MRT/IV/96

Pada hari ini, Selasa tanggal Tiga Puluh bulan April tahun Seribu Sembilan Ratus Sembilan Puluh Enam (30-04-1996) yang bertanda tangan dibawah ini :

N a m a : PT. Mutiara Reksa Teknik

Selanjutnya disebut PIHAK PERTAMA.

N a m a : Ir. Idrus MSc

Jabatan : Kepala Laboratorium Mekanika Tanah ISTN

Selanjutnya disebut PIHAK KEDUA.

Kedua belah pihak telah sepakat untuk melakukan kerjasama dalam melakukan pekerjaan Penyelidikan Tanah (Soil Investigation) pada :

Proyek : S.T.O Telkom

Lokasi : Suka Sari, Rumpin, Jawa Barat

Demikian surat perjanjian kerja sama ini kami buat dengan sebenar-benarnya.

Jakarta, 30 April 1996

PIHAK KEDUA



Laboratorium Mekanika Tanah ISTN

PIHAK PERTAMA



PT. Mutiara Reksa Teknik

SOIL INVESTIGATION

FINAL REPORT

PROJECT : S.T.O TELKOM

LOCATION : DS. SUKA SARI, RUMPIN, JAWA BARAT

SOIL MECHANICS LABORATORY
NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY
I.S.T.N - JAKARTA



DAFTAR ISI.

I.	PENDAHULUAN	page- 1
II.	PENYELIDIKAN DI LAPANGAN	page- 2
	2.1. Peralatan	page- 2
	2.2. Metode Pelaksanaan	page- 2
	2.3 Jumlah dan Hasil Penvelidikan	page- 4
III.	PENELITIAN DI LABORATORIUM	page- 5
IV.	KESIMPULAN DAN REKOMENDASI	page- 7
	4.1. Keadaan Lapisan Tanah	page- 7
	4.2. Rekomendasi	page- 8

Lampiran - Lampiran



25-05.1/FR/LM/V/96

Page : 1

FINAL REPORT
SOIL INVESTIGATION

PROYEK : S.T.O TELKOM

LOKASI : DS. SUKA SARI , RUMPIN , JAWA BARAT

I. PENDAHULUAN

Sehubungan permohonan penvelidikan tanah pada Proyek S.T.O TELKOM di Desa Suka Sari, Rumpin, Jawa Barat oleh PT. MUTIARA REKSA TEKNIK Jakarta kepada Laboratorium Mekanika Tanah I.S.T.N Jakarta , maka kami akan melaporkan hasil pekerjaan yang telah kami lakukan berupa pekerjaan lapangan dan laboratorium dalam bentuk Final Report.

Pekerjaan lapangan berupa pekerjaan Sondir (Cone Penetration Test) kapasitas 2,5 ton sebanyak 6 titik dan pekerjaan Bor Dangkal sebanyak 3 titik.

Pelaksanaan pekerjaan dilapangan telah kami laksanakan pada tanggal 6 - 7 Mei 1996.

Penvelidikan tanah ini dimaksudkan untuk mengetahui kondisi lapisan tanah hingga lapisan tanah keras dengan nilai Konus $> 100 \text{ Kg/cm}^2$ serta kemampuan daya dukungnya untuk memikul beban bangunan.



II. PENYELIDIKAN DI LAPANGAN.

Pelaksanaan penyelidikan di lapangan pada proyek ini meliputi :

- . CPT (sondir) kapasitas 2.50 tonf
- . Shallow Boring (bor dangkal)
- . Undisturbed Sampling (pengambilan contoh tanah tidak terganggu)

2.1. Peralatan.

- a. 1 (satu) mesin CPT (sondir) kapasitas 2.50 tonf lengkap.
- b. 1 (satu) unit alat bor dangkal lengkap dengan mata bor Iwan serta Thin Walled Sampler (Tabung contoh) dengan diameter 75 mm panjang 60 cm serta tebal 2.00 mm.

2.2. Metode Pelaksanaan.

a. CPT (sondir)

Konus yang digunakan adalah frictioncone (biconus) dengan suatu luas penampang 10 cm², luas selimut geser 150 cm² dan luas penampang 10 cm².

Sondir dilakukan secara terus menerus dengan interval 20 cm kedalaman (penetrasi) sampai menunjukkan jumlah tahanan konus dan geser maksimum 250 kg/cm² atau sampai kedalaman maksimum sebesar 30.0 meter.



Data yang disajikan dalam percobaan ini adalah nilai tahanan konus (ujung) , ratio antara friction & cone resistance dan total friksi dari tiap kedalaman sampai kedalaman maksimum dari kapasitas alat sondir yang dipakai.

b. Shallow Boring.

Pengeboran dilakukan dengan cara Rotary Core Drilling dengan menggunakan Bored Iwan. Deskripsi tanah secara visual dilakukan terus menerus sepanjang lubang pengeboran. Semua contoh tanah hasil coring disimpan didalam kantong plastik tertutup, lengkap dengan keterangannya.

c. Undisturbed Sampling.

Pengambilan contoh tanah tak terganggu / asli dilakukan dengan menggunakan Bored Iwan, dalam keadaan kering dan adakalanya dibutuhkan air.

Deskripsi tanah secara visual dilakukan terus menerus sepanjang lubang pengeboran.

Semua contoh tanah hasil coring disimpan dalam kantong plastik tertutup, lengkap dengan keterangannya.



25-05.1/FR/LM/V/96

Page : 4

2.3 Jumlah dan Hasil Penvelidikan

- Jumlah Pengujian C.P.T (sondir) sebanyak 6 titik.

Titik	Elevasi (m)	$Q_c > 100$ kg/cm ² kedalaman (m)	M.A.T (m)	Tf kg/cm ²
S-1	0.00	16.80	-16.00	2000
S-2	0.00	17.60	-16.40	2000
S-3	0.00	18.20	-16.80	>2000
S-4	0.00	16.20	-16.20	2000
S-5	0.00	19.00	-16.00	>2000
S-6	0.00	18.40	-----	>2000

Bor dangkal sebanyak 3 (tiga) titik

No: Bor	Elevasi	Kedalaman (meter)	Sampel U.D
B-1	0.00	-2.95	2
B-2	0.00	-2.95	2
B-1	0.00	-2.95	2



25-05.1/FR/LM/V/96

Page : 5

III. PENELITIAN DI LABORATORIUM.

Penelitian di Laboratorium meliputi kondisi contoh tanah :

- Undisturbed Sample.

Yang berasal dari Thin Walled Tube Sampler dilakukan penelitian Index Properties dan Mechanical Properties

- Disturbed Sample.

Dari contoh tanah yang terganggu dilakukan deskripsi tanah secara visual.

Penelitian dari contoh tanah tidak terganggu (undisturb sample) dilakukan sesuai dengan persyaratan prosedur percobaan dari ASTM (American Standard for Testing Material), yang meliputi :

1. Penentuan kadar air asli (W_n)
2. Penentuan berat isi tanah (γ_n)
3. Penentuan berat isi kering (γ_d)
4. Penentuan specific gravity (G_s)
5. Atterberg limits
6. Grained Sizes and hydrometer analysis.
7. Uji konsolidasi test (Oedometer test)
8. Triaxial UU Test



25-05.1/FR/LM/V/96

Page : 6

Jenis dan Jumlah Pengujian di Laboratorium :

Jenis Pengujian	Jumlah	Sampel
1. Index Properties "	6 titik	Undisturbed
2. Grained sizes Distri- bution	6 titik	Undisturbed
3. Atterberg limit	6 titik	Undisturbed
4. Consolidasi	6 titik	Undisturbed
5. Triaxial UU Test	6 titik	Undisturbed



IV. KESIMPULAN DAN REKOMENDASI

4.1 Kondisi Lapisan Tanah.

Dari hasil pengujian CPT test dan Bor Dangkal pada lokasi pekerjaan, dapat diterangkan kondisi lapisan tanah sebagai berikut :

- Secara umum kondisi lapisan tanah sama (homogen) dimana tanah lempung kelanauan dengan konsistensi sedang ditemui dari permukaan tanah hingga -2.00 meter.

Lapisan lempung kelanaun dengan konsistensi stiff to very stiff dijumpai dari -2.00 meter sampai kedalaman -14.00 meter.

Lapisan tanah keras yang ditunjukkan dengan tahanan ujung konus $> 200 \text{ kg/cm}^2$ ditemui pada kedalaman antara 16.20 s/d 19.00 meter.

Total friction hingga kedalaman maksimum didapat sebesar 2000 kg/cm^2 (cukup besar).

Muka air tanah yang diprediksi dari jejak pembasahan stang sondir ditemui pada kedalaman -16.00 meter dari permukaan tanah rata-rata.



25-05.1/FR/LM/V/96

Page : 8

4.2 Rekomendasi

Dari kondisi lapisan tanah seperti dijelaskan diatas,
maka kami sarankan pemilihan pondasi sebagai berikut :

1. Pondasi Dangkal.(untuk bangunan s/d 2 lantai)

Dengan ketentuan sebagai berikut :

- kedalaman pondasi -1.00 meter s/d 1.50 meter
- lebar pondasi 1.20 meter s/d 1.50 meter.
- daya dukung keseimbangan yang diizinkan adalah
sbb:

a. Pondasi Setempat

$$\sigma_{all} = 0.55 \text{ kg/cm}^2.$$

b. Pondasi menerus

$$\sigma_{all} = 0.50 \text{ kg/cm}^2$$

Catatan : perlu diperhitungkan settlement akibat
proses konsolidasi sampai kedalaman 3 B,
dimana B adalah lebar pondasi yang dipakai.



25-05.2/FR/LM/V/96

Page : 9

2. Pondasi Pancang Pracetak, (bangunan 3 lantai atau lebih)

Dengan ketentuan sebagai berikut :

- Kedalaman Pemancangan hingga kedalaman -15.00 meter s/d 17.00 meter atau.

Pemancangan sampai dengan final set maksimum 1.00 - 2.00 cm / 10 pukulan hammer terakhir.

- Dapat digunakan tiang pancang dengan ukuran :

28 x 28 x 28 cm , $P_{all} = 27.50$ tonf

20 x 20 cm , $P_{all} = 27.50$ tonf

30 x 30 cm , $P_{all} = 55$ tonf

40 x 40 cm , $P_{all} = 75$ tonf

- Dalam satu kelompok tiang, dapat dilakukan pemancangan dengan ketentuan jarak antara satu tiang ke tiang lainnya sebesar 3 D. dimana D adalah diameter pondasi yang dipakai.

LABORATORIUM MEKANIKA TANAH I.S.T.N

Kepala

(Ir. Idrus MSc)

Geotechnical Engineer



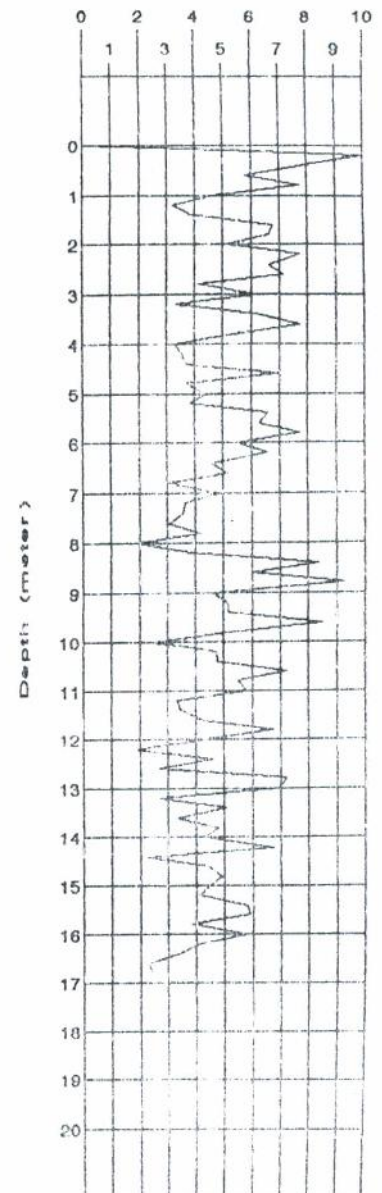
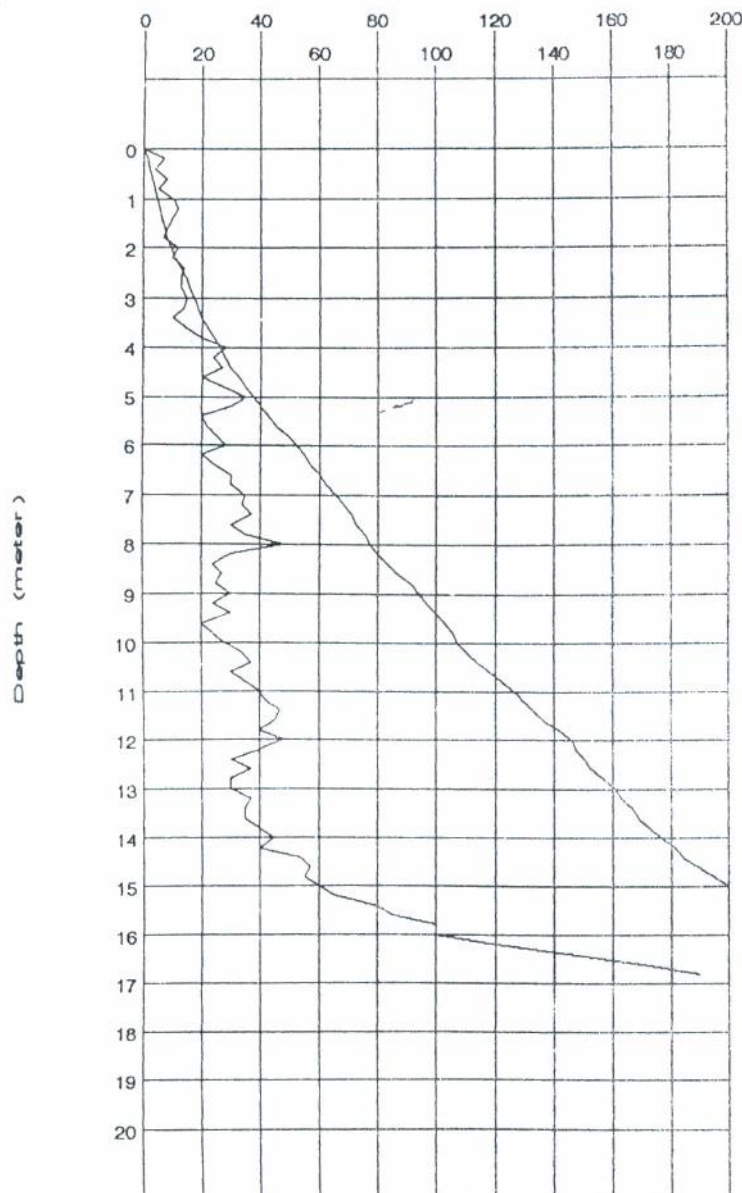
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CONE PENETRATION TEST

SONDIR No.	: 81.	D1. qonus	3.45	DATE OF TESTED:	MEI 07th.1998.
PROJECT	: STO TELKOM	D2. jacket	3.60	TESTED BY	: NEAN Mr.
LOCATION	: DESA SUKA SARI RUMPIN -JABAR.	H. jacket	15.00	CHECKED BY	: MA.ONTOWIRYO
		Ratio (R)	18.15		
		Elevation (- meter)			
		G.W.L (- meter)	16.00		

Qc (Kg/cm²) and Tf (Kg/cm² x 10)

Friction / Qonus Resistance (%)





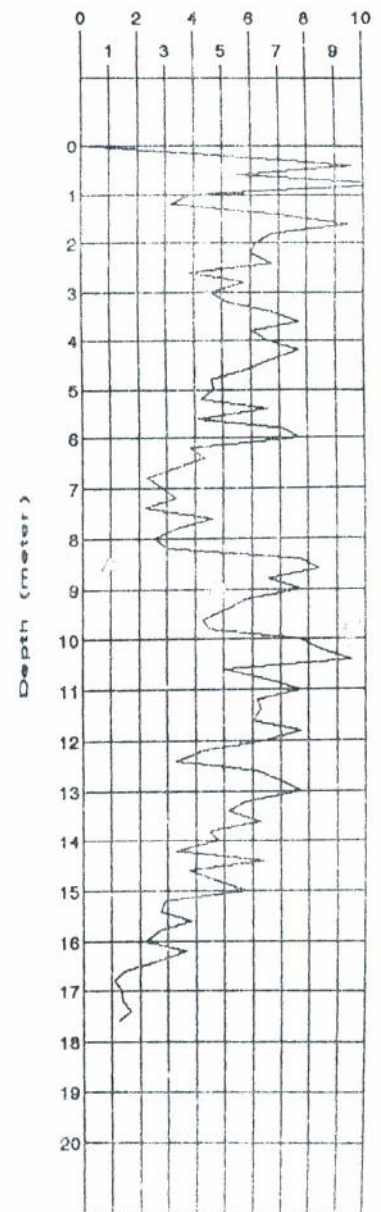
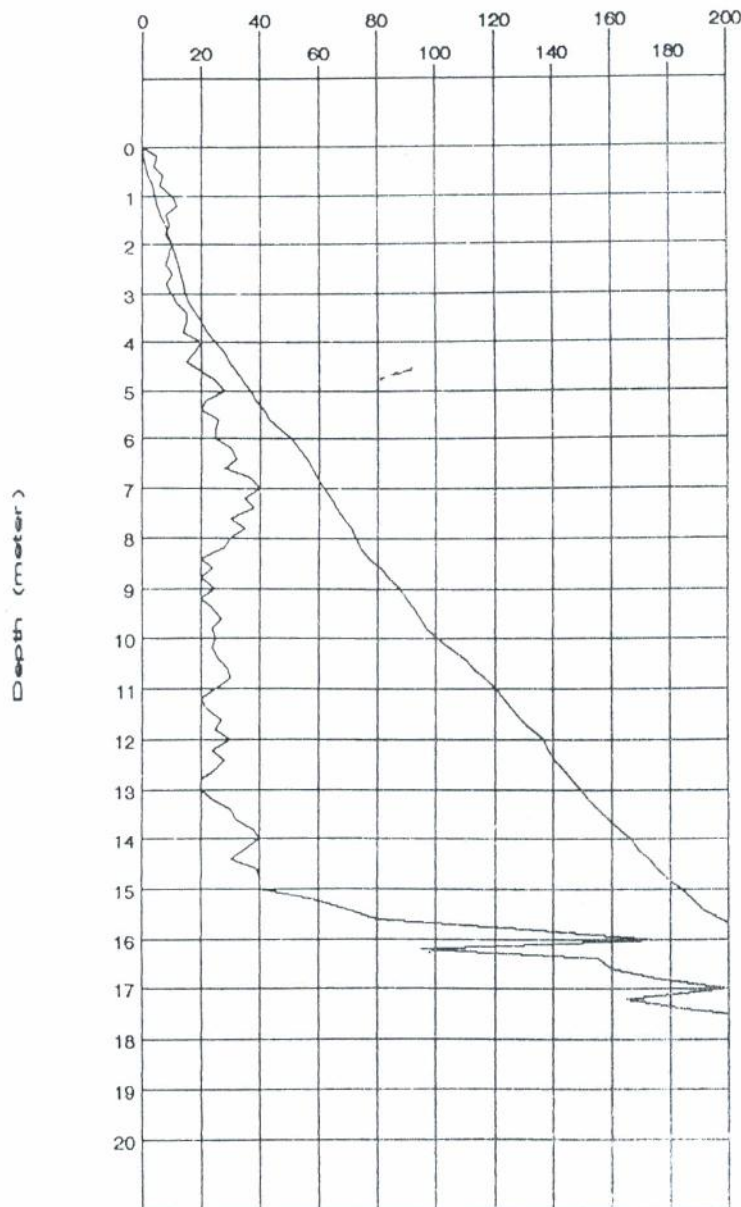
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FAX 7270090, JAKARTA

CONE PENETRATION TEST

SONDIR No.	: S 2.	D1. qonus	3.45	DATE OF TESTED	: MEI 06th.1996.
PROJECT	: STO TELKOM	D2. Jaoket	3.80	TESTED BY	: NEAN Mr.
LOCATION	: DESA SUKA SARI	H. Jaoket	15.00	CHECKED BY	: MA.ONTOWIRYO
	RUMPIN -JABAR.	Ratio (R)	18.15		
		Elevation (- meter)			
		G.W.L (- meter)	16.40		

Qc (Kg/cm²) and Tf (Kg/cm' x 10)

Friction / Qonus Resistance (%)



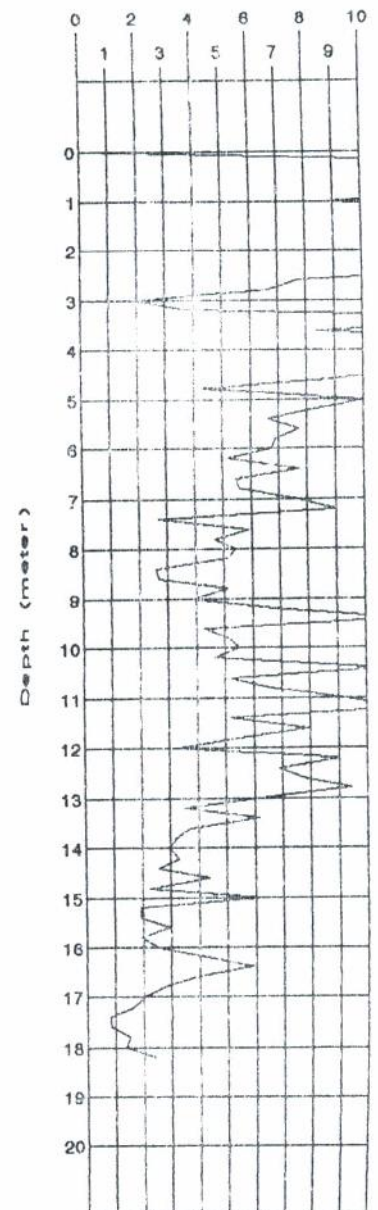
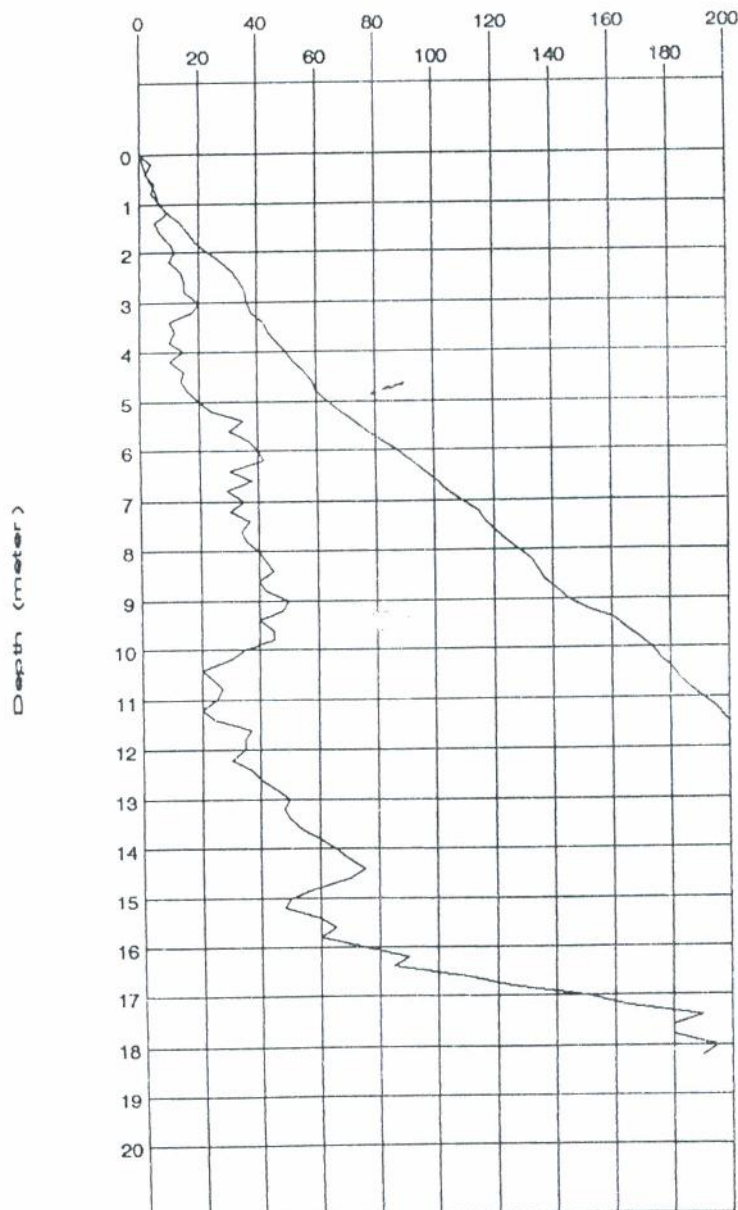


CONE PENETRATION TEST

SONDIR No.	: S 3.	D1. qonun	3.45	DATE OF TESTED	: MEI 06/1996.
PROJECT	: STO TELKOM	D2. jacket	3.80	TESTED BY	: NEAN Mr.
LOCATION	: DESA BUKA SARI RUMPIN - JABAR.	H. jacket	15.00	CHECKED BY	: MA.ONTOWIRYO
		Ratio (R)	18.15		
		Elevation (- meter)	18.60		
		G.W.L (- meter)	18.60		

Qc (Kg/cm²) and Tf (Kg/cm' x 10)

Friction / Qonus Resistance (%)





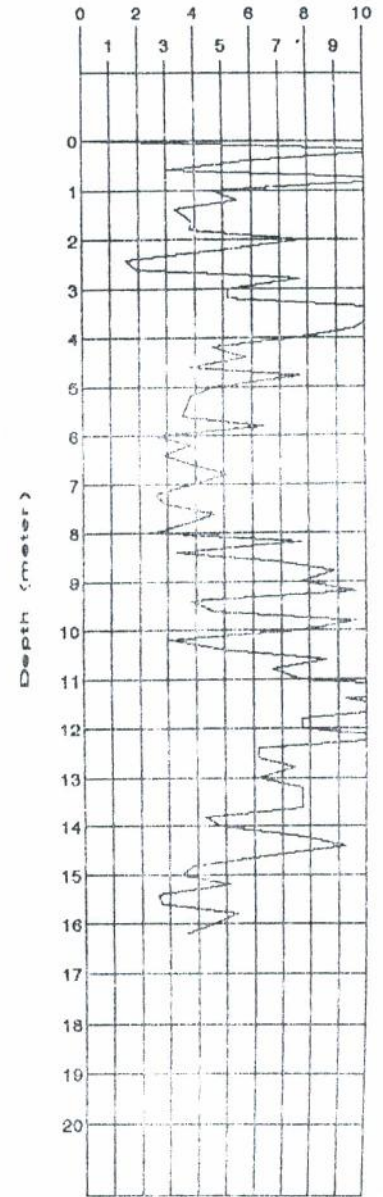
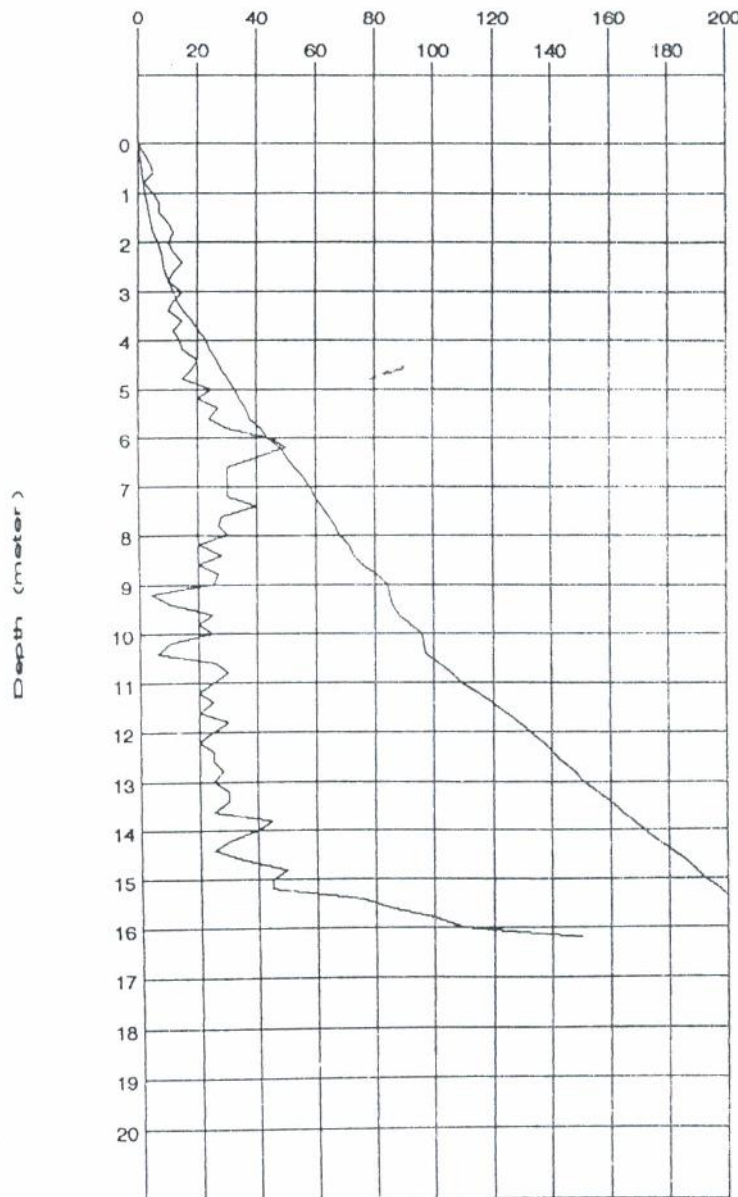
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CONE PENETRATION TEST

BONDIR No.	: 84.	D1. qonua	3.45	DATE OF TESTED:	MEI 06th.1996.
PROJECT	: STO TELKOM	D2. jacket	3.60	TESTED BY	: NEAN Mr.
LOCATION	: DEBA SUKA SARI RUMPIN -JABAR.	H. jacket	15.00	CHECKED BY	: MA.ONTOWIRYO
		Ratio (R)	18.15		
		Elevation (- meter)			
		G.W.L (- meter)	16.20		

Q_c (Kg/cm²) and T_f (Kg/cm' x 10)

Friction / Qonus Resistance (%)





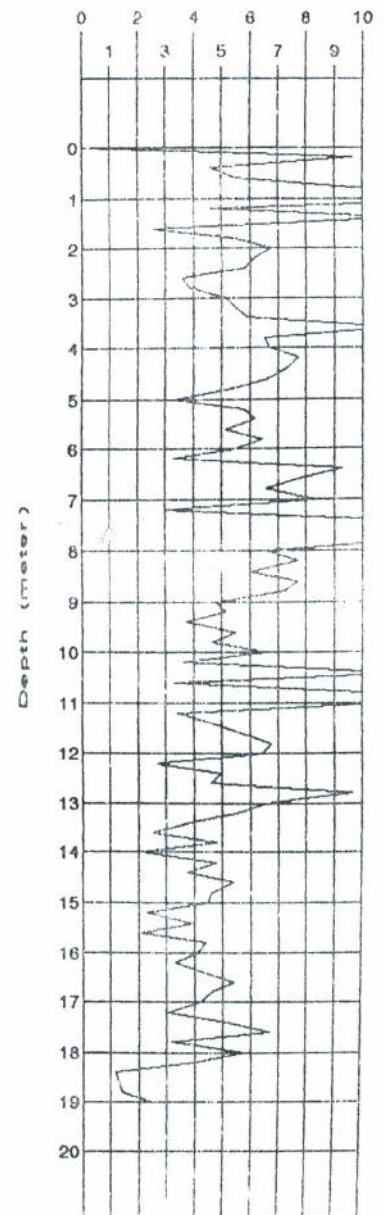
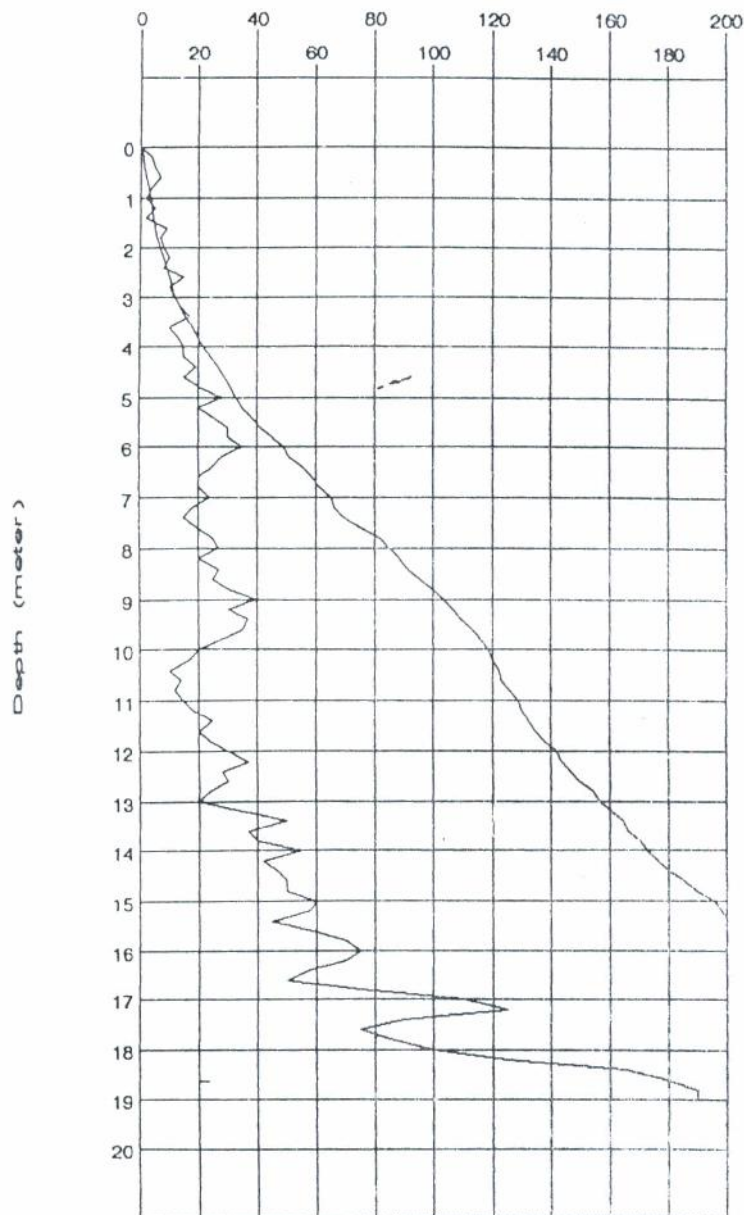
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CONE PENETRATION TEST

SONDIR No.	: 85.	D1. qonus.	3.45	DATE OF TESTED:	MEI 07th.1998.
PROJECT	: STO TELKOM	D2. Jaoket	3.60	TESTED BY	: NEAN Mr.
LOCATION	: DESA SUKA SARI RUMPIN -JABAR.	H. Jaoket	15.00	CHECKED BY	: MA.ONTOWIRYO
		Ratio (R)	18.15		
		Elevation (- meter)			
		G.W.L (- meter)	16.00		

Qc (Kg/cm²) and Tf (Kg/cm' x 10)

Friction / Qonus Resistance (%)



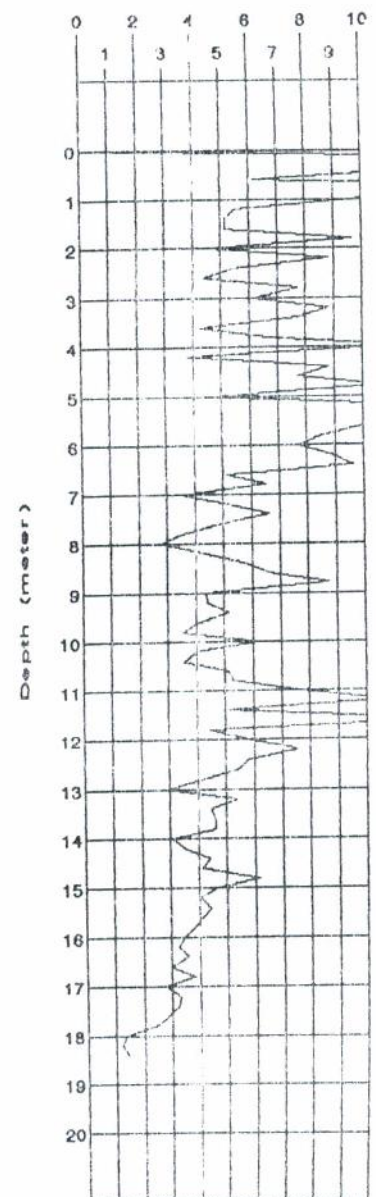
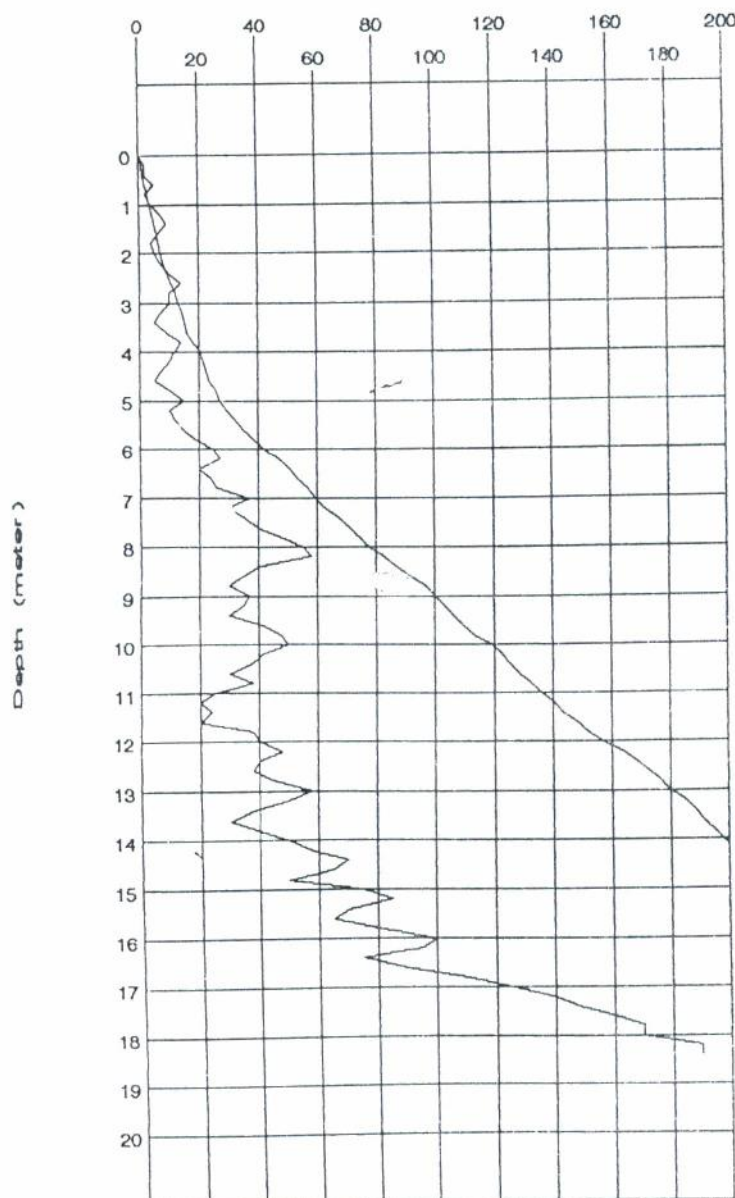


CONE PENETRATION TEST

SONDIR No.	: 86.	D1. qonus	3.45	DATE OF TESTED	: MEI 07th.1988.
PROJECT	: 8TO TELKOM	D2. jacket	3.60	TESTED BY	: NEAN Mr.
LOCATION	: DESA SUKA BARI RUMPIN -JABAR.	H. jacket	15.00	CHECKED BY	: MA.ONTOWIRYO
		Ratio (R)	18.15		
		Elevation (- meter)			
		G.W.L (- meter)			

Qc (Kg/cm²) and Tf (Kg/cm' x 10)

Friction / Qonus Resistance (%)





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GEOLOGICAL BORING LOG																		
PROJECT		STO TELKOM.		Started MEI 07th. 1996				Drawn by ABDULRAHMAN		Bore Hole Number B - 1.								
LOCATION		DEBA BUKA SARU RUMPIN		Finished MEI 07th. 1996				Checked by RAHARDJO S										
TOTAL DEPTH		2.95 M.		Tested by N E A N Mr				Approved by										
ELEVATION				Av. GWT				Date		MEI 13th. 1996								
Scale	Depth	Elev.	Thickness	Soil Symbol	Soil Classification	Colour	In Place Observation	Density or Consistency	Sample	Standard Penetration Test (N Value)								
										Number of Blows								
										Every 15 cm	30 Cm	10	20	30	40	50	60	
- 1	0.50 - 0.50																	
- 2																		
- 3																		
- 4	1.00 - 1.00																	
- 5																		
- 6																		
- 7	1.45 - 1.45					Coklat	Lempung kelantern	Kaku sedang.	UDS									
- 8																		
- 9																		
- 10	2.00 - 2.00																	
- 11																		
- 12																		
- 13	2.50 - 2.50																	
- 14																		
- 15																		
- 16	4.00 - 4.00																	
- 17																		
- 18																		
- 19	4.50 - 4.50																	
- 20																		
- 21																		

Clay		Gravel	
Silt		Rock	
Sand		Organic	



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GEOLOGICAL BORING LOG																	
PROJECT		BTO TELKOM.		Started		MEI 07th. 1998		Drawn by		ABDULRAHMAN		Bore Hole Number B - 2.					
LOCATION		DESA BUKA BARU RUMPIN		Finished		MEI 07th. 1998		Checked by		RAHARDJO B							
TOTAL DEPTH		2.95 M.		Tested by		N E A N Mr		Approved by									
ELEVATION				Av. GWT				Date		MEI 13th. 1998							
Scale	Depth	Elev.	Thickness	Soil Symbol	Soil Clas- sification	Colour	In Place Observation	Density or Consistency	Sample	Standard Penetration Test (N Value)							
										Number of Blows							
										Every 15 cm	30 Cm	10	20	30	40	50	60
1	0.50 - 0.50									UDS							
2																	
3																	
4	1.00 - 1.00									UDS							
5																	
6																	
7	1.45 - 1.45					Coklat	Lempung kelensuan	Kaku sedang.		UDS							
8																	
9																	
10	2.00 - 2.00									UDS							
11																	
12																	
13	2.50 - 2.50									UDS							
14																	
15																	
16	3.50 - 3.50																
17																	
18																	
19	4.00 - 4.00																
20																	
21																	
22	4.50 - 4.50																
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

Clay		Gravel	
Silt		Rock	
Sand		Organic	



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GEOLOGICAL BORING LOG

PROJECT	STO TELKOM.	Started	MEI 07th. 1998	Drawn by	ABDULRAHMAN	Bore Hole
LOCATION	DESA BUKA BARI. RUMPIN	Finished	MEI 07th. 1998	Checked by	RAHARDJO S	Number
TOTAL DEPTH	2.95 M.	Tested by	NEAN Mr	Approved by		
ELEVATION		Av. GWT		Date	MEI 13th. 1998	B - 3.

Scale	Depth	Elev.	Thickness	Soil Symbol	Soil Classification	Colour	In Place Observation	Density or Consistency	Sample	Standard Penetration Test (N Value)												
										Number of Blows												
										Every 15 cm	30 Cm	10	20	30	40	50	60					
1	0.50	- 0.50			Coklat	Lempung kelansuan	Kaku sedang.	UDS														
2																						
3																						
4	1.00	- 1.00																				
5																						
6									1.45	- 1.45												
7																						
8	2.00	- 2.00																				
9																						
10									2.50	- 2.50												
11																						
12	2.95	- 2.95																				
13																						
14			3.50	- 3.50																		
15																						
16	4.00	- 4.00																				
17																						
18			4.50	- 4.50																		
19																						
20																						

Clay		Gravel	
Silt		Rock	
Sand		Organic	



LABORATORY TESTING RESULTS

PROJECT STO TELKOM

LOCATION DESA SUKASARI - RUMPIN - JABAR

BORING B - 1, B - 2 DAN B - 3.

Sample Depth meter			Sample Type U/D		Classifi- cation	INDEX PROPERTIES										SHEAR STRENGTH PARAMETERS				COMPRESSIBILITY		
						Wn (%)	g wet t/m3	g dry t/m3	Gs	e	Sr	SL	PL	LL	PI	Sieve	Grain Size Hydro	Cu / Cu kg/cm2	Phi / Phi' degree	q-ult	St	Cc
B-1 1.00-1.45 2.50-2.95	U	CH	56.37	1.64	1.02	2.68	1.64	92.36	15.56	32.44	94.81	62.47	6	94	0.40	11	-----		0.86	0.00723	0.0344	
	U	CH	54.54	1.60	0.96	2.67	1.77	82.24	17.04	35.41	96.21	60.8	4	96	0.44	12.5	-----		0.86	0.007568	0.036	
B-2 1.00-1.45 2.50-2.95	U	CH-MH	47.12	1.64	1.04	2.61	1.51	81.46	25.18	46.86	92.18	45.36	4	96	0.42	10	-----		1.528	0.001107	0.0522	
	U	CH-MH	45.59	1.62	0.99	2.65	1.68	67.19	24.97	47.51	95.2	47.69	9	91	0.46	10	-----		1.513	0.008757	0.023	
B-3 1.00-1.45 2.50-2.95	U	CH-MH	46.70	1.62	1.01	2.60	1.59	76.99	24.63	44.69	91.08	46.39	4	96	0.33	13.5	-----		0.698	0.00676	0.0374	
	U	CH-MH	65.00	1.61	0.99	2.65	1.69	65.52	23.97	47.53	96.7	49.12	5	95	0.50	15	-----		0.0673	0.001033	0.0413	

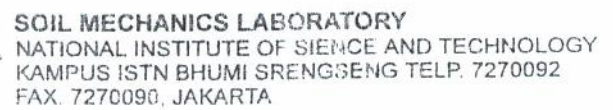


Weight-Volume Relationship of Unsaturated Soil

Boring No: TELKOM RUMPIN		Date of Tested : MEI 20 th 1996		
Depth : B1 (100-145)CM		Checked By : FAUZIE		
Input Data				
Unit Weight		1.59	gr/cm3	
Water Content		58.37	%	
Specific Gravity		2.68		
Unit Weight of Water		1.00	gr/cm3	
Volume (Cm3)		Weight (Grm)		
Vt= 2.64	Vv= 1.64	Va= 0.12	Wa= 0.00	Wt= 4.18
		Vw= 1.51	Ww= 1.51	
	Vs= 1.00		Ws= 2.68	
Void ratio (e)		1.64		
Degree of saturation (Sr)		92.36 %		
Porosity		0.62		
Dry unit weight		1.02 gr/cm3		
Saturated unit weight		1.64 gr/cm3		

Weight-Volume Relationship of Unsaturated Soil

Boring No: TELKOM RUMPIN		Date of Tested : MEI 20 th 1996								
Depth : B1(250-295) CM		Checked By : FAUZIE								
Input Data										
Unit Weight		1.49	gr/cm ³							
Water Content		54.54	%							
Specific Gravity		2.67								
Unit Weight of Water		1.00	gr/cm ³							
Volume (Cm ³)		Weight (Grm)								
Vt = 2.77	Vv = 1.77	Va = 0.32	Wa = 0.00	Wt = 4.13						
		Vw = 1.46	Ww = 1.46							
	Vs = 1.00		Ws = 2.67							
<table><tr><td colspan="2">Air</td></tr><tr><td colspan="2">Water</td></tr><tr><td colspan="2">Soil</td></tr></table>					Air		Water		Soil	
Air										
Water										
Soil										
Void ratio (e)		1.77								
Degree of saturation (Sr)		82.24 %								
Porosity		0.64								
Dry unit weight		0.96 gr/cm ³								
Saturated unit weight		1.60 gr/cm ³								



Weight - Volume Relationship		Date of Tested : MEI 20 th 1996														
Boring No: TELKOM RUMPIN		Checked By : FAUZIE														
Depth : B2 (100-145) CM																
Input Data																
Unit Weight	1.53	gr/cm ³														
Water Content	47.12	%														
Specific Gravity	2.61															
Unit Weight of Water	1.00	gr/cm ³														
<table border="1"> <thead> <tr> <th colspan="2">Volume (Cm³)</th> <th colspan="2">Weight (Grm)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">V_t = 2.51</td> <td rowspan="2">V_v = 1.51</td> <td>V_a = 0.28</td> <td>W_a = 0.00</td> <td rowspan="3">W_t = 3.84</td> </tr> <tr> <td>V_w = 1.23</td> <td>W_w = 1.23</td> </tr> <tr> <td colspan="2">V_s = 1.00</td> <td>W_s = 2.61</td> </tr> </tbody> </table>			Volume (Cm ³)		Weight (Grm)		V _t = 2.51	V _v = 1.51	V _a = 0.28	W _a = 0.00	W _t = 3.84	V _w = 1.23	W _w = 1.23	V _s = 1.00		W _s = 2.61
Volume (Cm ³)		Weight (Grm)														
V _t = 2.51	V _v = 1.51	V _a = 0.28	W _a = 0.00	W _t = 3.84												
		V _w = 1.23	W _w = 1.23													
	V _s = 1.00		W _s = 2.61													
<table border="1"> <tbody> <tr> <td rowspan="5"> Void ratio (e) Degree of saturation (Sr) Porosity Dry unit weight Saturated unit weight </td> <td>1.51</td> </tr> <tr> <td>81.46 %</td> </tr> <tr> <td>0.60</td> </tr> <tr> <td>1.04 gr/cm³</td> </tr> <tr> <td>1.64 gr/cm³</td> </tr> </tbody> </table>			Void ratio (e) Degree of saturation (Sr) Porosity Dry unit weight Saturated unit weight	1.51	81.46 %	0.60	1.04 gr/cm ³	1.64 gr/cm ³								
Void ratio (e) Degree of saturation (Sr) Porosity Dry unit weight Saturated unit weight	1.51															
	81.46 %															
	0.60															
	1.04 gr/cm ³															
	1.64 gr/cm ³															

Boring No: TELKOM RUMPIN		Date of Tested : MEI 20 th 1996	
Depth : B2 (250-295) CM		Checked By : FAUZIE	
Input Data			
Unit Weight	1.41	gr/cm3	
Water Content	42.59	%	
Specific Gravity	2.65		
Unit Weight of Water	1.00	gr/cm3	
Volume (Cm3)		Weight (Grm)	
Vt = 2.68	Vv = 1.68	Va = 0.53	Wa = 0.00
		Vw = 1.13	Ww = 1.13
	Vs = 1.00	Ws = 2.65	Wt = 3.78
Void ratio (e)		1.68	
Degree of saturation (Sr)		67.19 %	
Porosity		0.63	
Dry unit weight		0.99 gr/cm3	
Saturated unit weight		1.62 gr/cm3	



Weight–Volume Relationship of Unsaturated Soil

Boring No: TELKOM RUMPIN		Date of Tested : MEI 20 th 1996	
Depth : B3 (100-145) CM		Checked By : FAUZIE	
Input Data			
Unit Weight		1.48	gr/cm3
Water Content		46.70	%
Specific Gravity		2.60	
Unit Weight of Water		1.00	gr/cm3

Volume (Cm3)		Weight (Grm)		
Vt= 2.58	Vv= 1.58	Va= 0.36	Wa= 0.00	Wt= 3.81
		Vw= 1.21	Ww= 1.21	
	Vs= 1.00		Ws= 2.60	

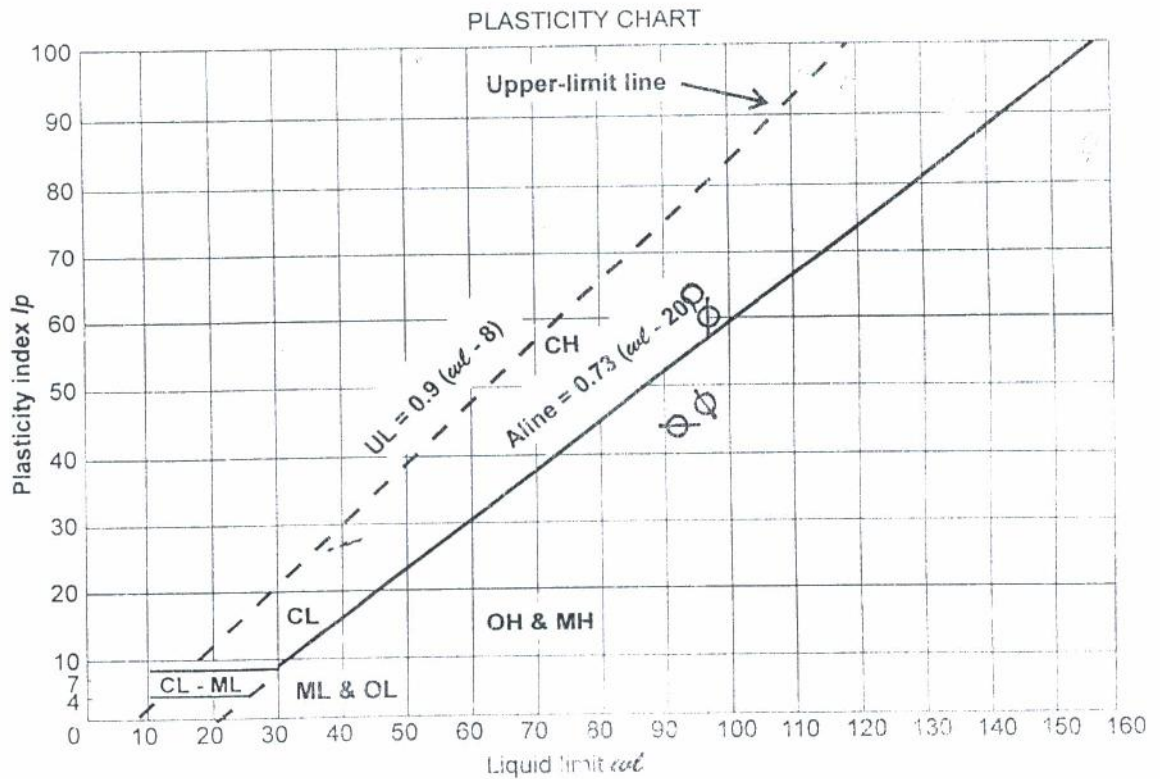
Void ratio (e)		1.58
Degree of saturation (Sr)		78.99 %
Porosity		0.61
Dry unit weight		1.01 gr/cm3
Saturated unit weight		1.62 gr/cm3

Weight–Volume Relationship of Unsaturated Soil

Boring No: TELKOM RUMPIN		Date of Tested : MEI 20 th 1996	
Depth : B3 (250-295) CM		Checked By : FAUZIE	
Input Data			
Unit Weight		1.53	gr/cm3
Water Content		55.00	%
Specific Gravity		2.65	
Unit Weight of Water		1.00	gr/cm3
Volume (Cm3)		Weight (Grm)	
Vt = 2.68	Vv = 1.68	Va = 0.23	Wa = 0.00
		Vw = 1.46	Ww = 1.46
	Vs = 1.00	Ws = 2.65	Wt = 4.11
Void ratio (e)		1.68	
Degree of saturation (Sr)		86.52	%
Porosity		0.63	
Dry unit weight		0.99	gr/cm3
Saturated unit weight		1.61	gr/cm3

SOIL CLASSIFICATION

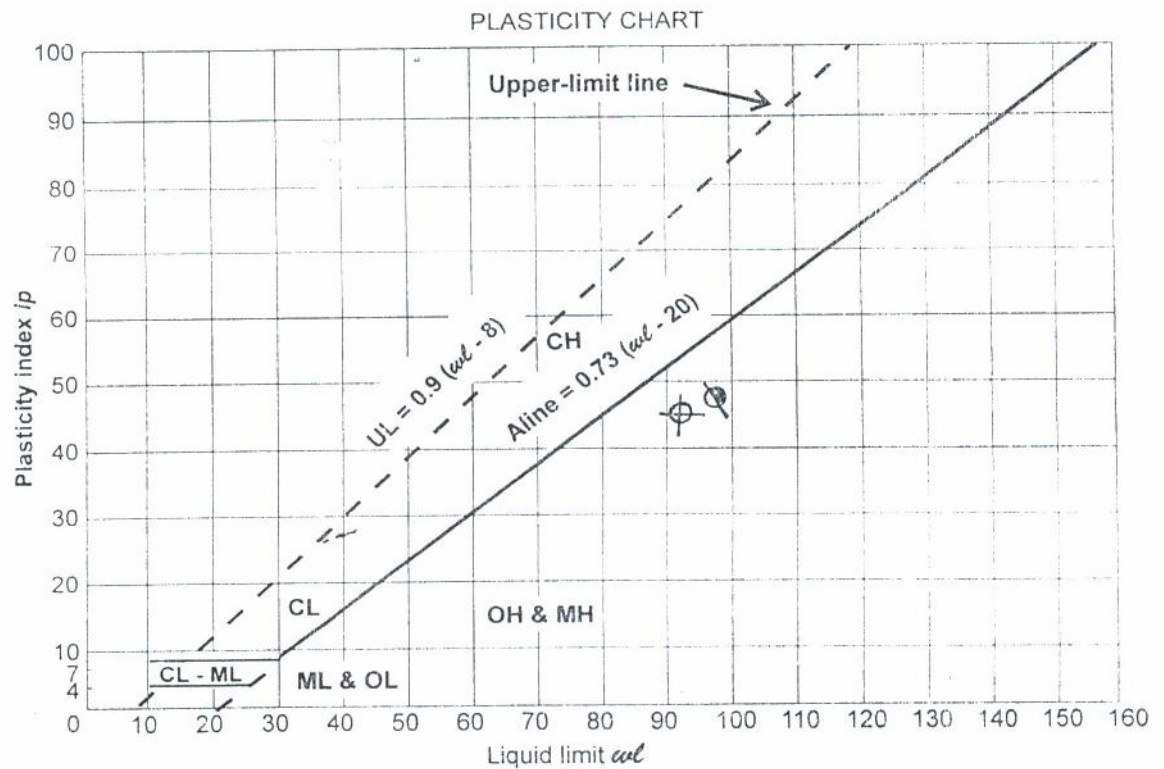
Project : STO Telkom
 Location : Desa Sukasari - Kumpin .
 Test By : Ir. S Hanny E .
 Date of Test : Mei 1996 .



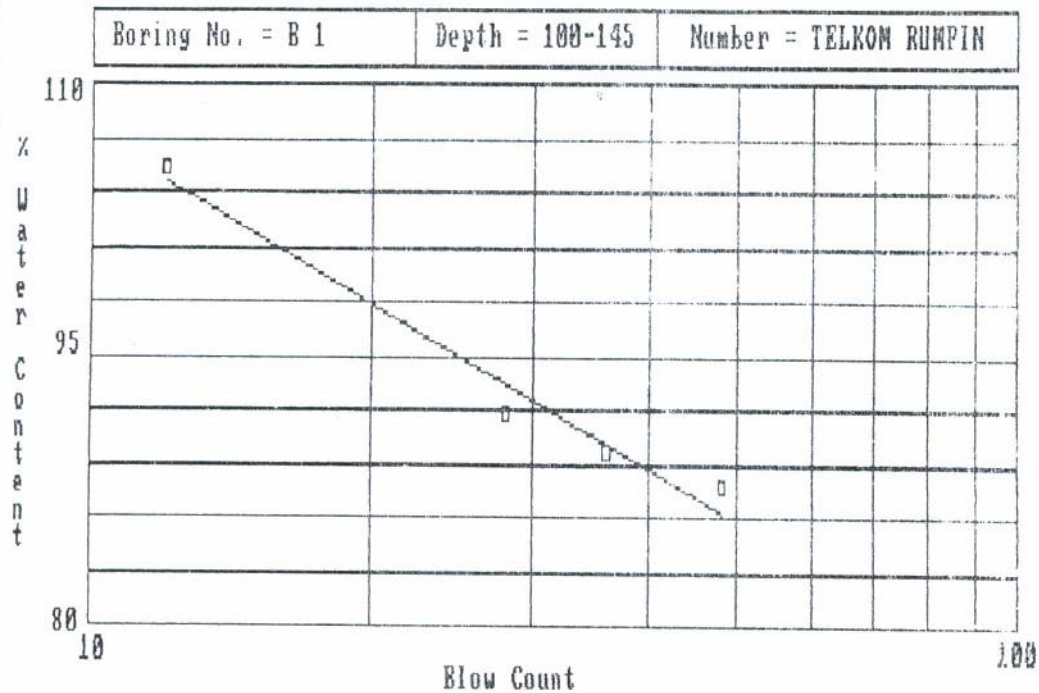
Boring No.	Depth (M)	Symbol	WL (%)	WP (%)	IP (%)	Unified Classification
B - 1	100 - 145	○	94,91	32,44	62,47	CH
	250 - 295	⊕	96,21	35,41	60,8	CH
B - 2	100 - 145	⊕	97,18	46,82	45,36	CH & MH
	250 - 295	⊕	95,2	47,51	47,69	CH & ML

SOIL CLASSIFICATION

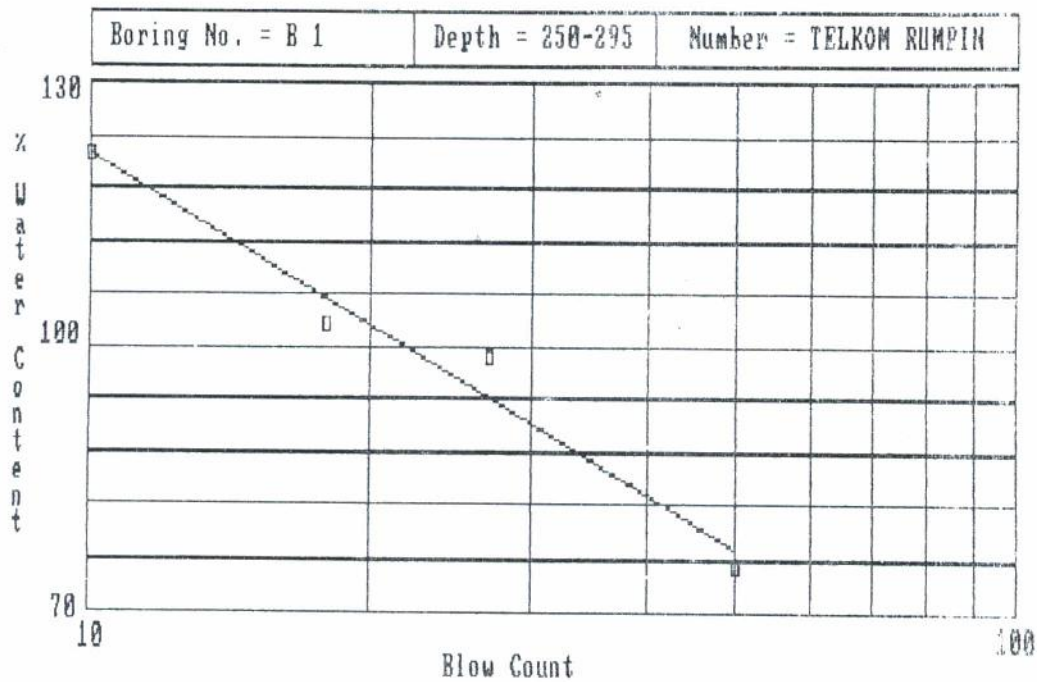
Project : STO Telkom
 Location : Desa Suka Sari-Rumpin.
 Test By : Ir. S Hanny E
 Date of Test : Mei 1996 .



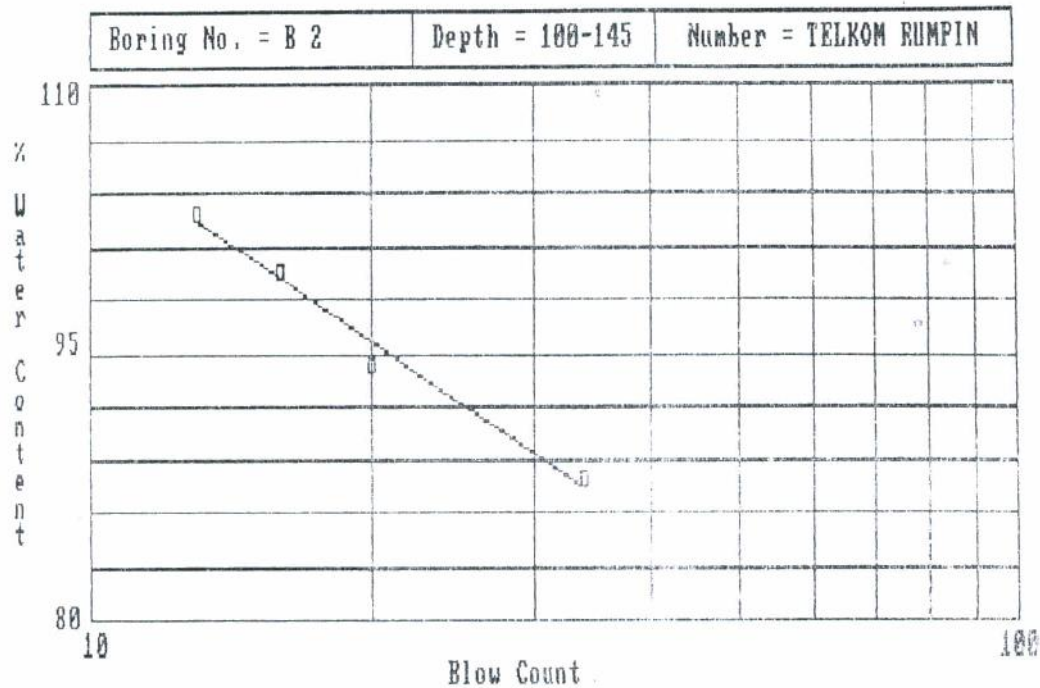
Boring No.	Depth (M)	Symbol	WL (%)	WP (%)	IP (%)	Unified Classification
B - 3	100 - 145	⊗	91,08	44,69	46,59	OH & MH
	250 - 275	⊗	96,7	47,58	49,12	OH & MH



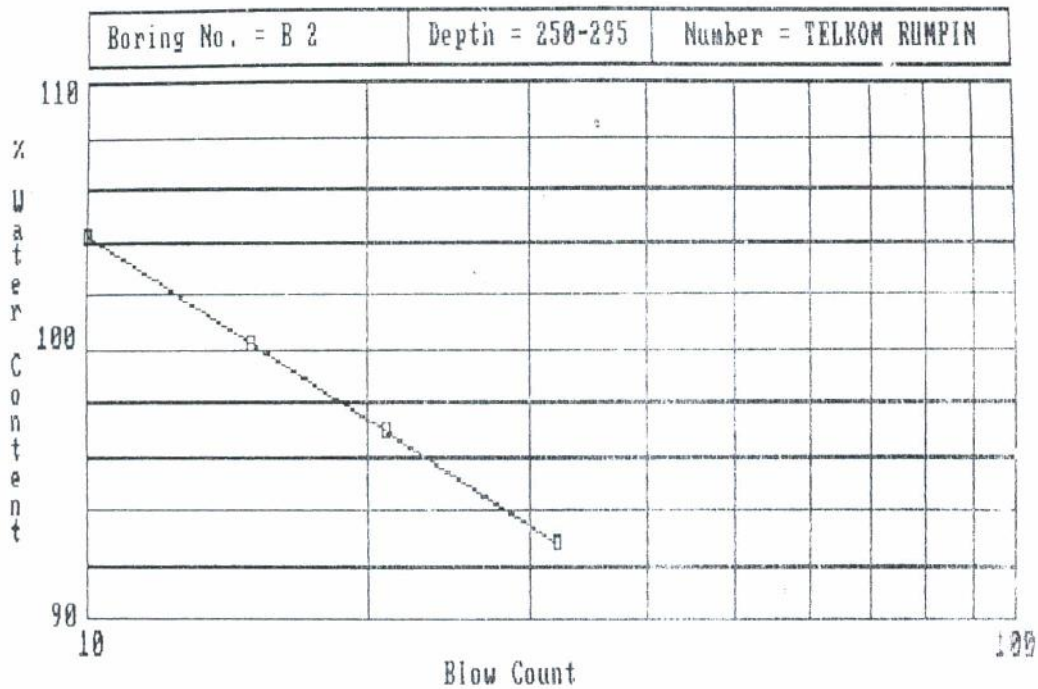
Sample no.	1	2	3	4					
% Water content	105.35	91.75	89.64	87.65					
Blow count	12	28	36	48					
Regression equation					Coefficient of determination				
$W = -30.4557 * \log N + 137.4842$					$R^2 = .9723$ ** Excellent Test				
Liquid limit = 94.91					Flow index = -30.46				
Input plastic limit = 32.44					Toughness index = -2.05				
Plasticity index = 62.47					Shrinkage limit = 15.56				
Input natural water content = 56.37					Liquidity index = .38				
Boring No. = B 1			Depth = 100-145			Number = TELKOM RUMPIN			



Sample no.	1	2	3	4					
% Water content	75.02	98.82	102.35	121.89					
Blow count	50	27	18	10					
Regression equation					Coefficient of determination				
$W = -64.2992 * \log N + 186.0944$					$R^2 = .9682$ ** Excellent Test				
Liquid limit = 96.21					Flow index = -64.3				
Input plastic limit = 35.41					Toughness index = -.95				
Plasticity index = 60.8					Shrinkage limit = 17.04				
Input natural water content = 54.54					Liquidity index = .31				
Boring No. = B 1			Depth = 250-295			Number = TELKOM RUMPIN			



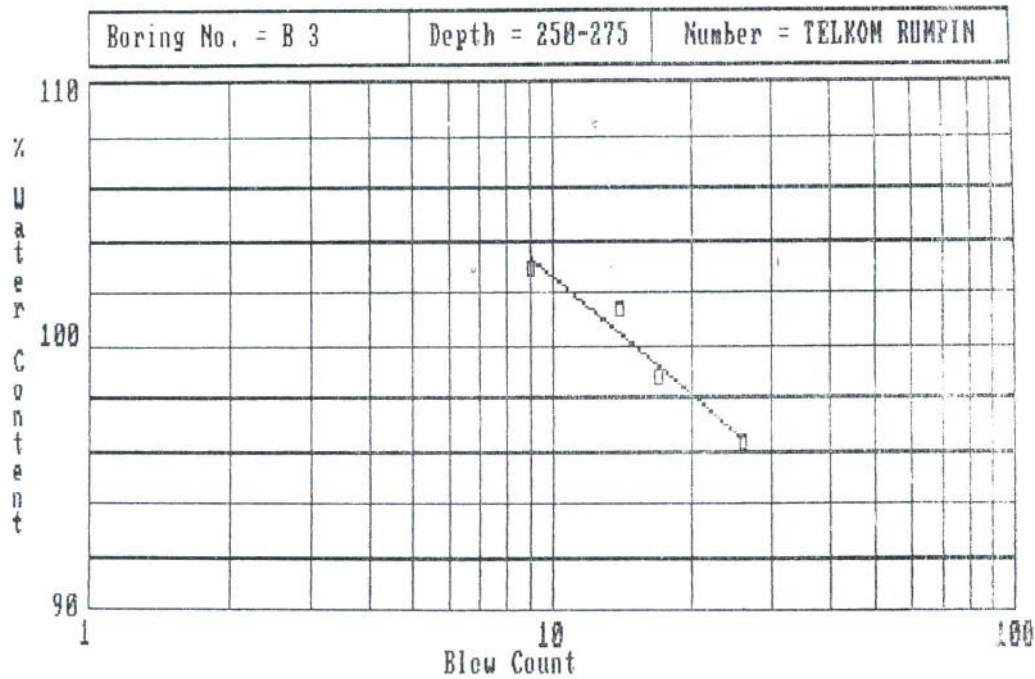
Sample no.	1	2	3	4					
% Water content	102.89	99.45	94.39	87.88					
Blow count	13	16	20	34					
Regression equation					Coefficient of determination				
$W = -36.8335 * \log N + 142.5531$					$R^2 = .9827$ ** Excellent Test				
Liquid limit = 92.18					Flow index = -36.83				
Input plastic limit = 46.02					Toughness index = -1.26				
Plasticity index = 45.36					Shrinkage limit = 25.18				
Input natural water content = 47.12					Liquidity index = .01				
Boring No. = B 2			Depth = 100-145			Number = TELKOM RUMPIN			



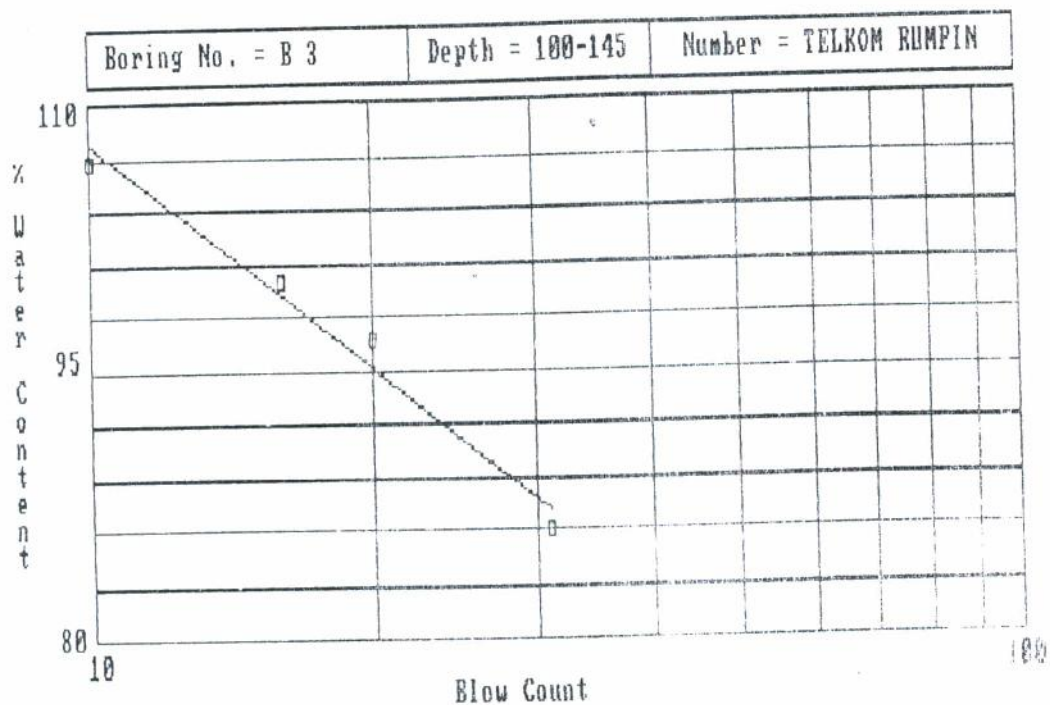
Sample no.	1	2	3	4					
% Water content	92.78	96.93	100.17	104.19					
Blow count	32	21	15	10					
Regression equation					Coefficient of determination				
$W = -22.55 * \log N + 126.724$					$R^2 = 1$ ** Excellent Test				
Liquid limit = 95.2					Flow index = -22.55				
Input plastic limit = 47.51					Toughness index = -2.11				
Plasticity index = 47.69					Shrinkage limit = 24.97				
Input natural water content = 42.59					Liquidity index = -.1				
Boring No. = B 2			Depth = 250-295			Number = TELKOM RUMPIN			



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NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY
KAMPUS ISTN BHUMI SRENGSENG TELP. 7270092
FAX. 7270090, JAKARTA



Sample no.	1	2	3	4					
% Water content	96.31	98.76	101.42	102.91					
Blow count	26	17	14	9					
Regression equation					Coefficient of determination				
$W = -14.8647 * \log N + 117.4837$					$R^2 = .9487$ ** Excellent Test				
Liquid limit = 96.7					Flow index = -14.86				
Input plastic limit = 47.50					Toughness index = -3.3				
Plasticity index = 49.12					Shrinkage limit = 24.60				
Input natural water content = 55					Liquidity index = .15				
Boring No. = B 3			Depth = 250-275			Number = TELKOM RUMPIN			



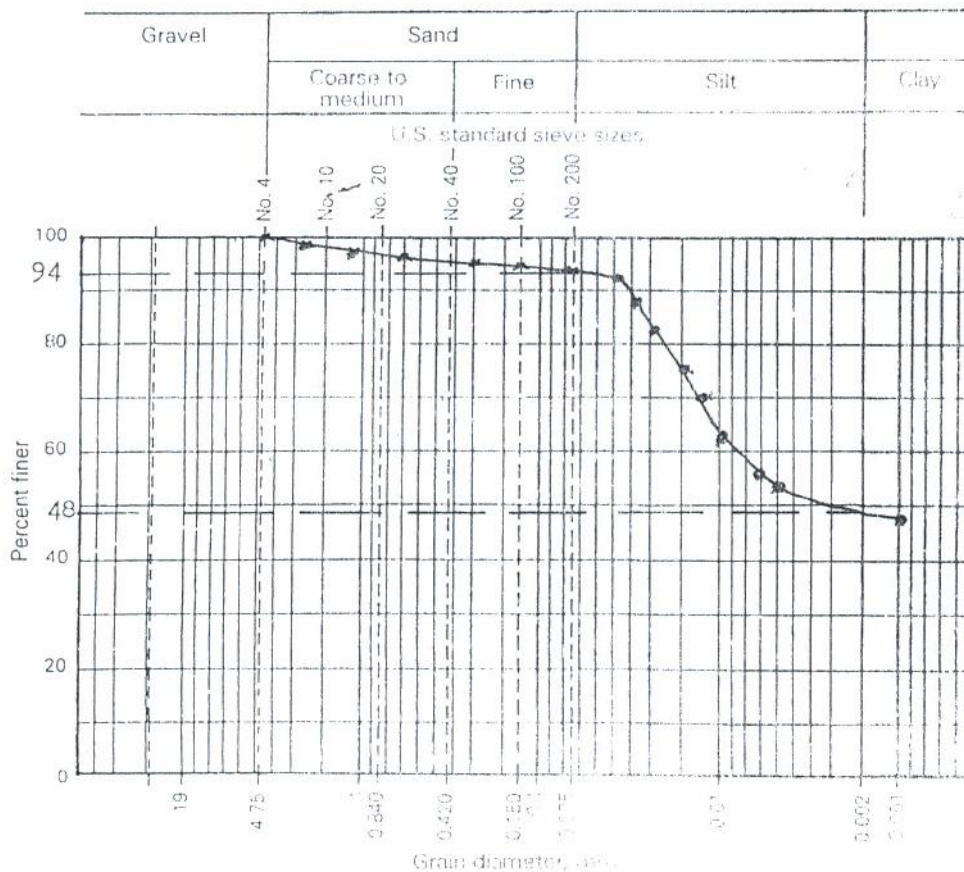
Sample no.	1	2	3	4					
% Water content	85.95	96.59	100.00	106.72					
Blow count	31	20	16	10					
Regression equation					Coefficient of determination				
$W = -41.8794 * \log N + 149.6256$					$R^2 = .9765$ ** Excellent test				
Liquid limit = 91.08					Flow index = -41.08				
Input plastic limit = 44.695					Toughness index = -1.11				
Plasticity index = 46.39					Shrinkage limit = 23.87				
Input natural water content = 46.7					Liquidity index = .04				
Boring No. = B 3			Depth = 100-145			Number = TELKOM RUMPIN			



LABORATORIUM MEKANIK TANAH
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INSTITUT SAINS DAN TEKNOLOGI NASIONAL - JAKARTA
Kampus ISTN Bhumi Srengseng Telp. 7270092 Fax. 7270090

GRAIN SIZE DISTRIBUTION

Project STO Telkom Job No. _____
Location of Project Desa Sukasari Boring No. B - 1 Sample No. 1
Rumpin-Jabar Depth of Sample 100 - 145
Description of Soil _____
Tested By Ir. Rahardjo. S Date of Testing _____



Visual soil description _____

Soil classification _____

System Hydrometer and sieve analysis

Sand = 6 %.

Clay = 48 %.

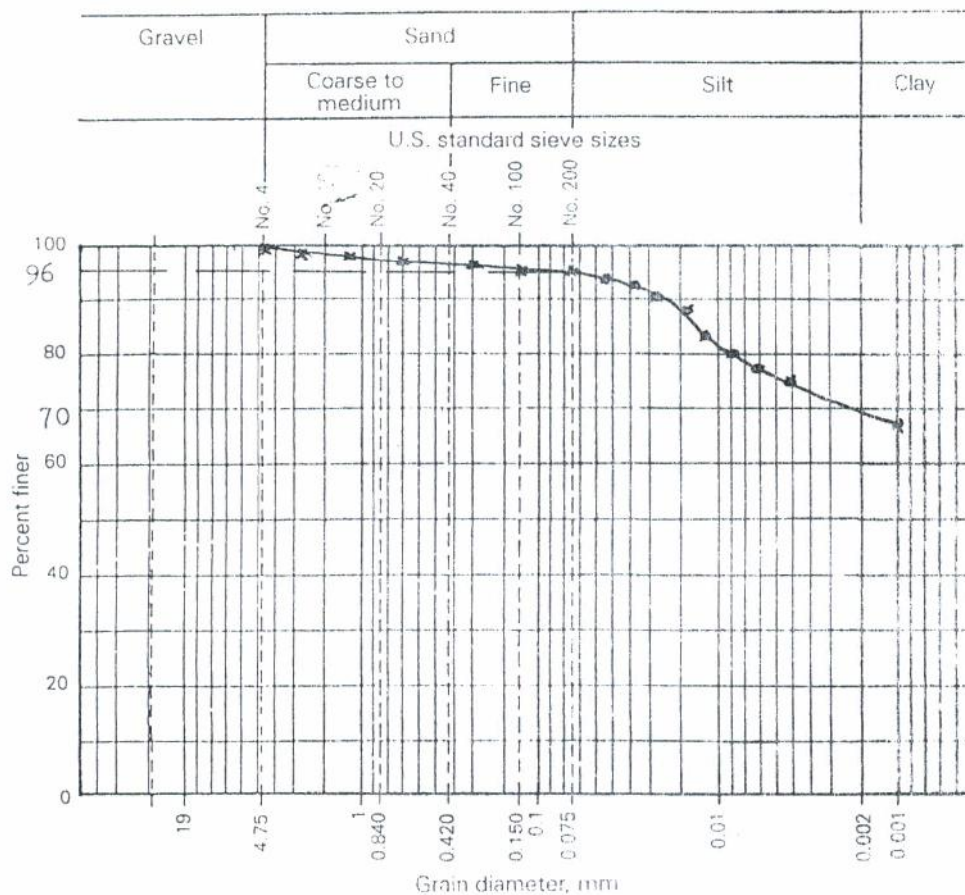
Silt = 46 %.



LABORATORIUM MEKANIKA TANAH
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Kampus ISTN Bumi Srengseng Telp. 7270092 Fax. 7270090

GRAIN SIZE DISTRIBUTION

Project STO Telkom Job No. _____
Location of Project Desa Sukasari Boring No. B-1 Sample No. 2
Description of Soil _____ Depth of Sample 250 - 295
Tested By Ir. Rahardjo. S Date of Testing Mei 1996



Visual soil description _____

Soil classification _____

System Hydrometer and sieve analysis

Sand = 4 %.

Clay = 70%.

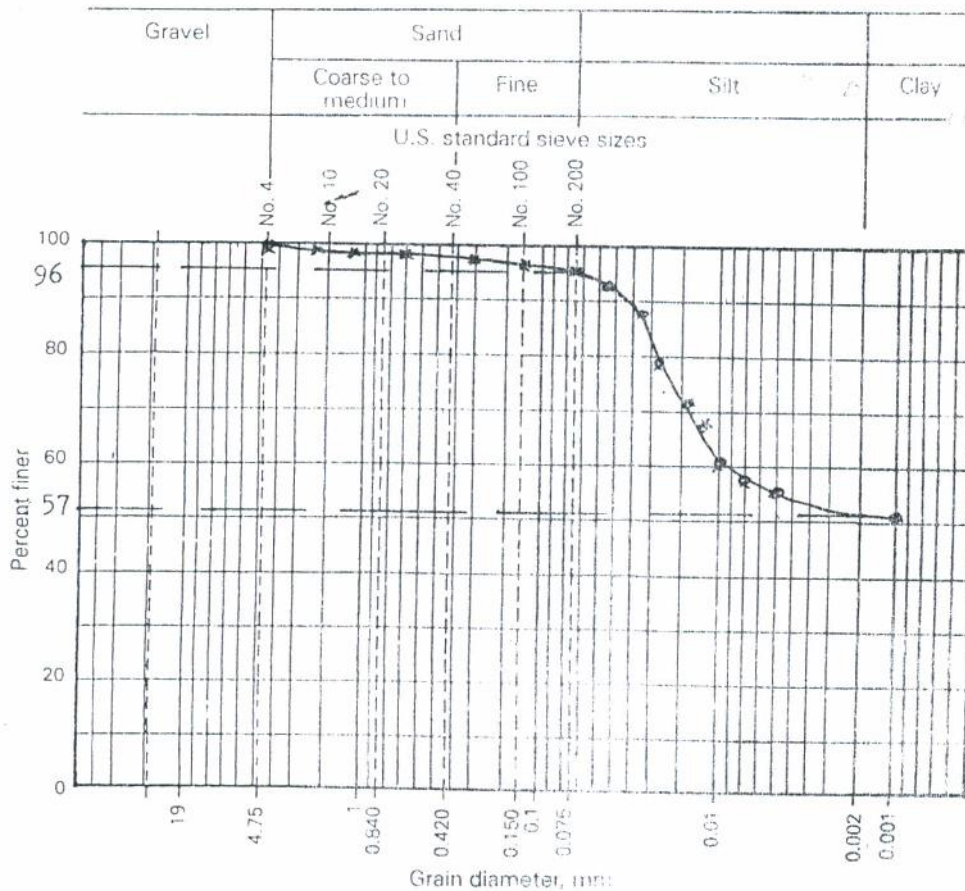
Silt = 26 %.



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GRAIN SIZE DISTRIBUTION

Project STO Telkom Job No. _____
Location of Project Desa Sukasari Boring No. B-2 Sample No. _____
Rumpin-Jabar
Description of Soil _____ Depth of Sample 100 - 145
Tested By Ir. Rahardjo. S Date of Testing Mei 1996



Visual soil description _____

Soil classification

System Hydrometer and sieve analysis

Sand = 4 %.

Clay = 51 %.

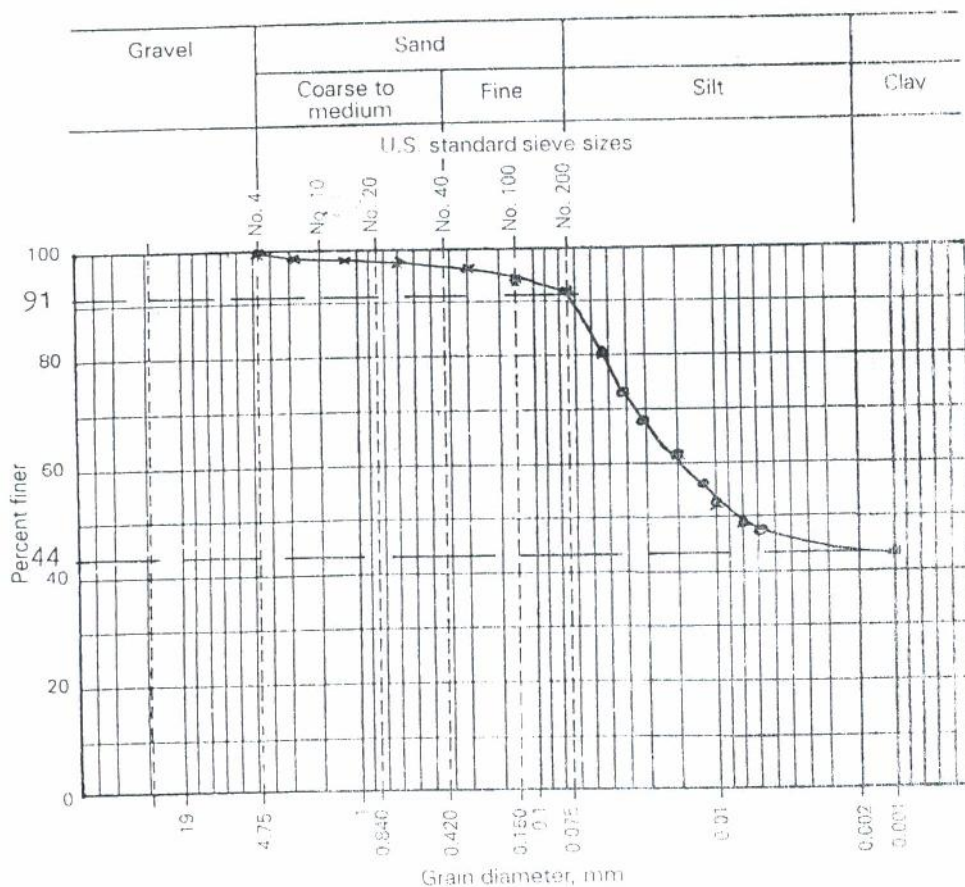
Silt = 45 %.



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GRAIN SIZE DISTRIBUTION

Project STO Telkom Job No. _____
Location of Project Desa Sukasari Boring No. B-2 Sample No. 2
Rumpin-Jabar
Description of Soil _____ Depth of Sample 250 - 295
Tested By Ir. Rahardjo. S Date of Testing Mei 1996



Visual soil description _____

Soil classification _____

System Hydrometer and sieve analysis

Sand = 9 %.

Clay = 44 %.

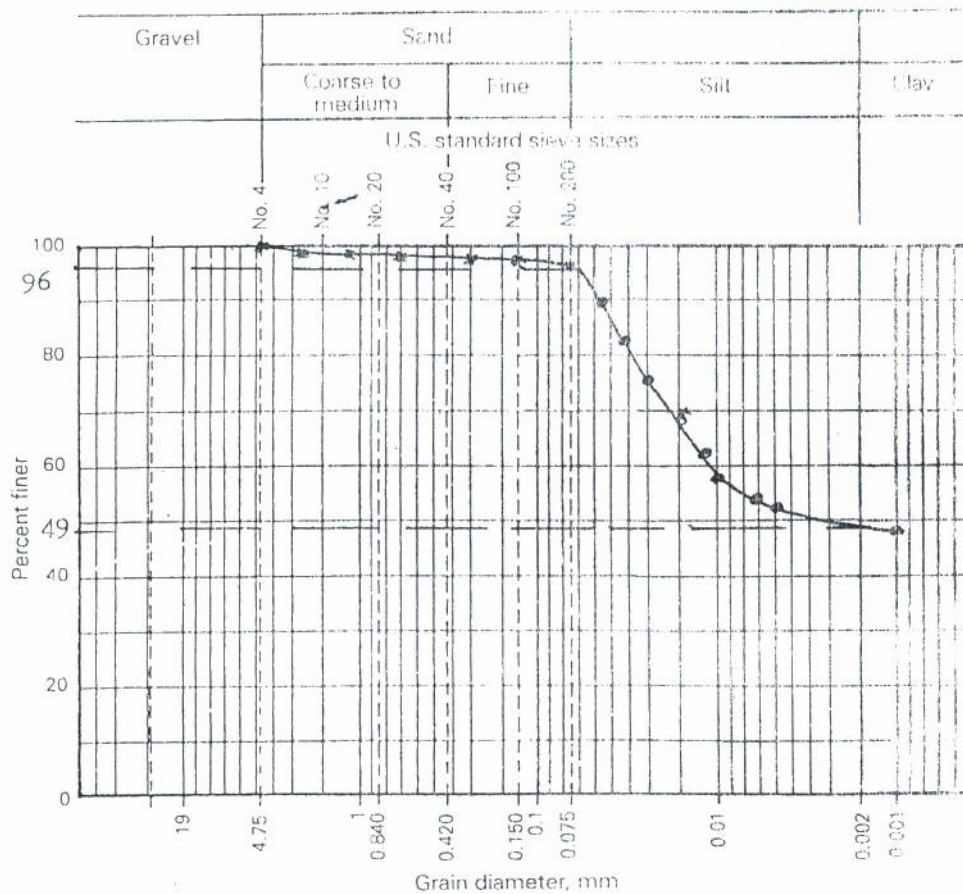
Silt = 47 %.



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GRAIN SIZE DISTRIBUTION

Project STO Telkom Job No. _____
Location of Project Desa Sukasari Boring No. B - 3 Sample No. 1
Rumpin-Jabar .
Description of Soil _____ Depth of Sample 100 - 145
Tested By Ir. Rahardjo. S Date of Testing Mei 1996 .



Visual soil description _____

Soil classification _____

System Hydrometer and sieve analysis

Sand = 4 %.

Clay = 49 %.

Silt = 47 %.



Project STO Telkom Job No. _____
 Location of Project Desa Sukasari Boring No. P-3 Sample No. _____
 Description of Soil _____ Depth of Sample 250 - 295
 Tested By Ir. Rahardjo. S Date of Testing Mei 1996

Silt = 38 %.



TRIAXIAL U.U TEST

Project	STO TELKOM.	Date of test	MAY. 20th. 1996
Location	DESA SUKA SARI. RUMPIN.	Tested by	Amin Mi
Boring no	B 1	Checked by	NANA S
Depth	100 - 145 CM.	Approved by	

Sample Data

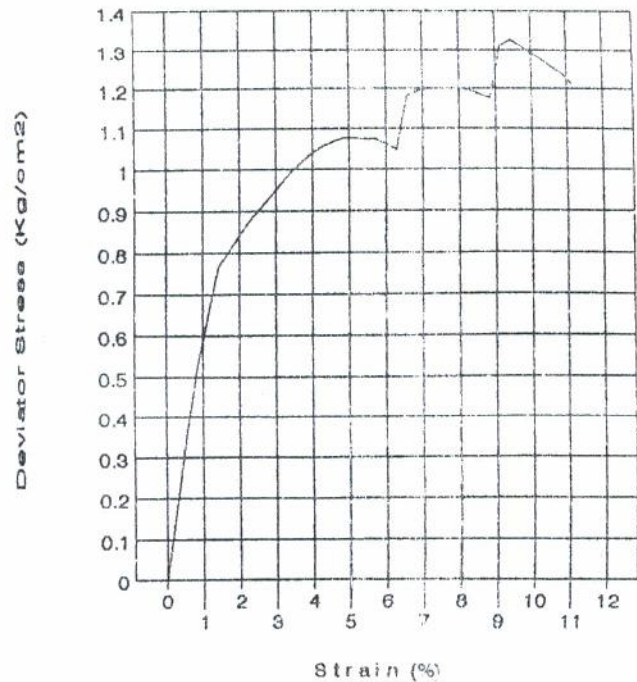
Diameter (cm)	3.50
Height (cm)	7.00
Wet density (gr/cm ³)	1.71
Water content (%)	61.06
Dry density (gr/cm ³)	1.06

Stress (kg/cm ²)	Sample		
	I	II	III
3	0.30	0.60	0.90
Deviator	1.08	1.20	1.33
1	1.38	1.80	2.23
Pore water pressure	0.00	0.00	0.00

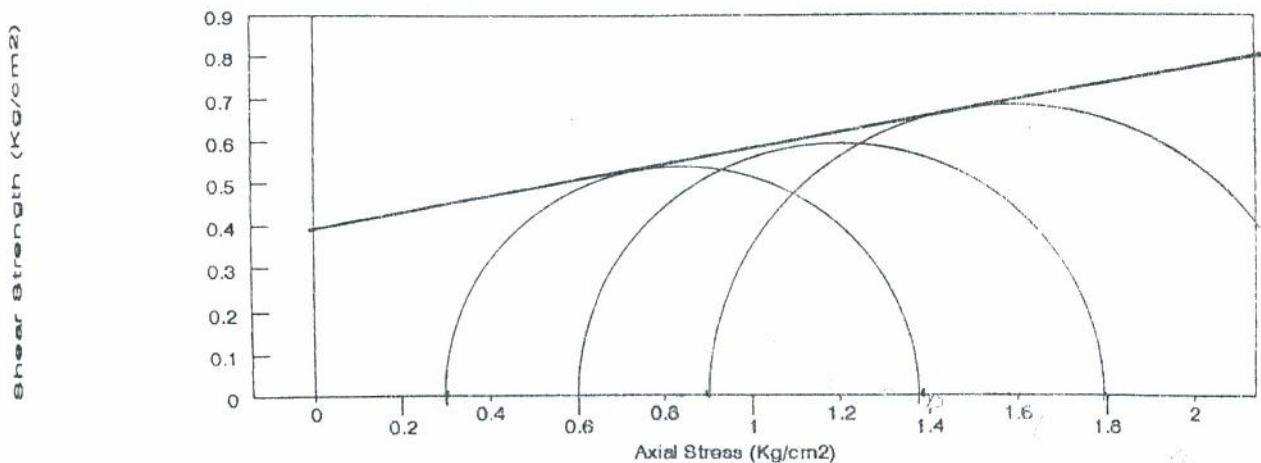
Shear Strength Parameters

Cohesion Undrained (C _u), kg/cm ²	0,40
Internal Angle Friction (Degree)	11°

Stress-Strain Curve



Mohr Coulomb Curves





TRIAXIAL U.U TEST

Project	STO TELKOM.	Date of test	MAY. 20th. 1996
Location	DESA SUKA SARI. RUMPIN.	Tested by	Amin Mr
Boring no	B 1	Checked by	NANA S
Depth	250 - 295 CM.	Approved by	

Sample Data

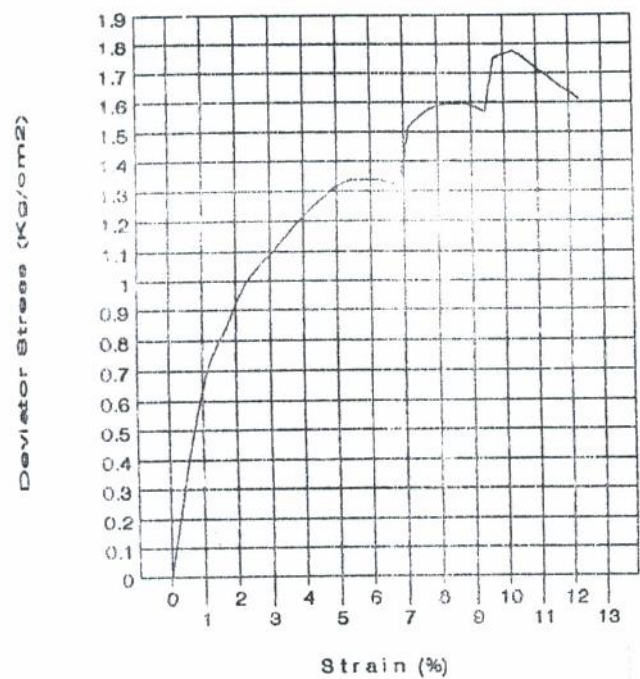
Diameter (cm)	3.50
Height (cm)	7.00
Wet density (gr/cm ³)	1.71
Water content (%)	61.06
Dry density (gr/cm ³)	1.06

Stress (kg/cm ²)	Sample		
	I	II	III
3	0.40	0.80	1.20
Deviator	1.34	1.60	1.78
1	1.74	2.40	2.98
Pore water pressure	0.00	0.00	0.00

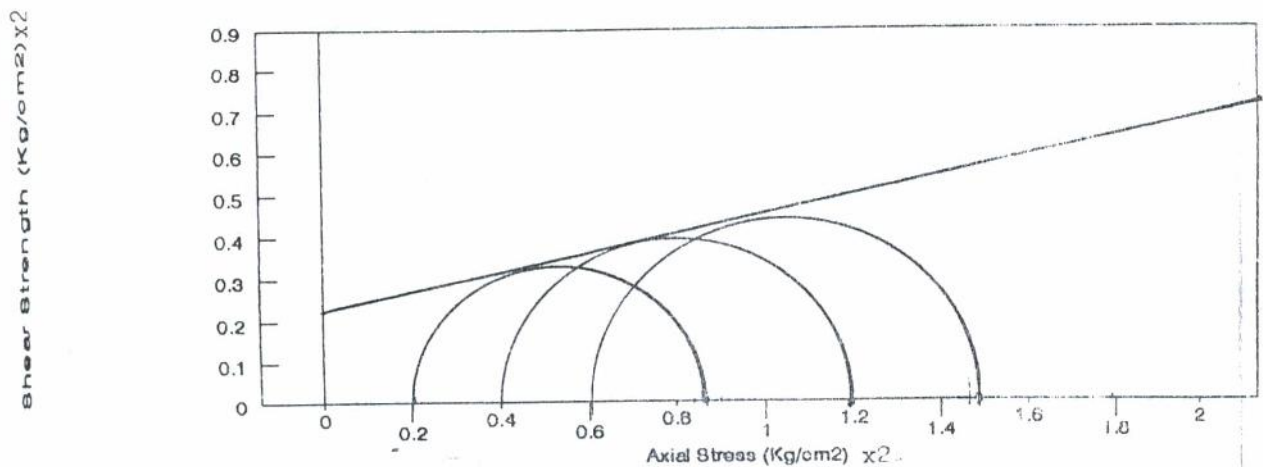
Shear Strength Parameters

Cohesion Undrained (C _u). kg/cm ²	0,44
Internal Angle Friction (Degree)	12,5°

Stress-Strain Curve



Mohr Coulomb Curve





TRIAXIAL U.U TEST

Project	STO TELKOM.	Date of test	MAY. 20th. 1996
Location	DESA SUKA SARI. RUMPIN.	Tested by	Amin Mr
Boring no	B 2	Checked by	NANA S
Depth	100 - 145 CM.	Approved by	

Sample Data

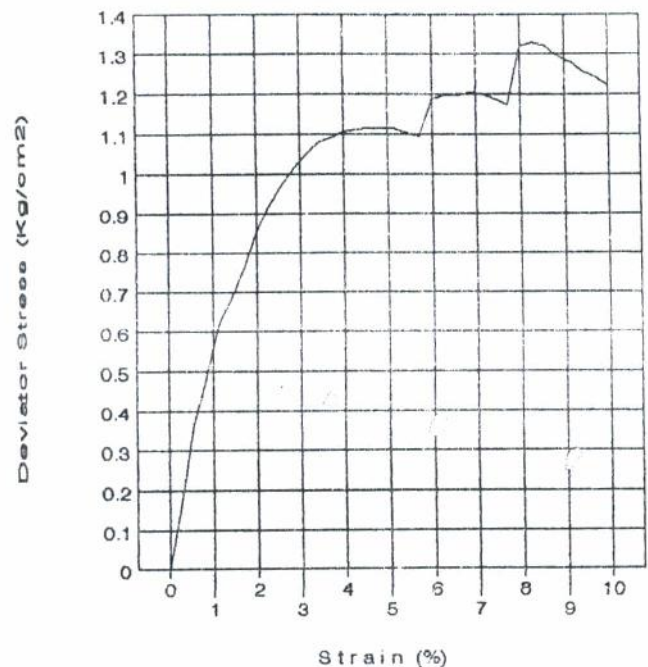
Diameter (cm)	3.50
Height (cm)	7.00
Wet density (gr/cm ³)	1.39
Water content (%)	52.03
Dry density (gr/cm ³)	0.91

Stress (kg/cm ²)	Sample		
	I	II	III
3	0.30	0.60	0.90
Deviator	1.12	1.21	1.33
1	1.42	1.81	2.23
Pore water pressure	0.00	0.00	0.00

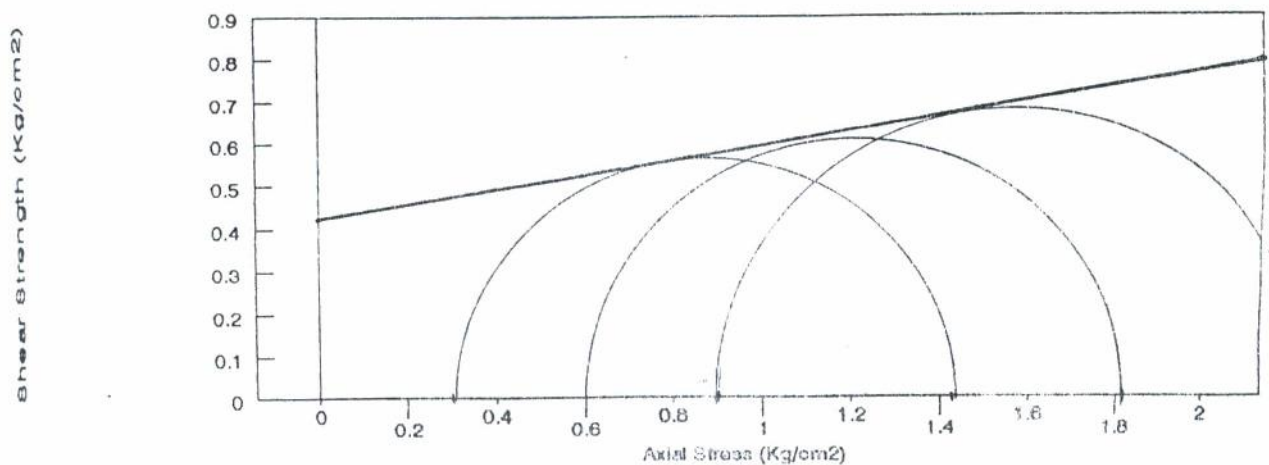
Shear Strength Parameters

Cohesion Undrained (C _u), kg/cm ²	0,42
Internal Angle Friction (Degree)	10°

Stress-Strain Curve



Mohr Coulomb Curve





TRIAXIAL U.U TEST

Project	STO TELKOM.	Date of test	MAY. 20th. 1996
Location	DESA SUKA SARI. RUMPIN.	Tested by	Amin Mr
Boring no	B 2	Checked by	NANA S
Depth	250 - 295 CM.	Approved by	

Sample Data

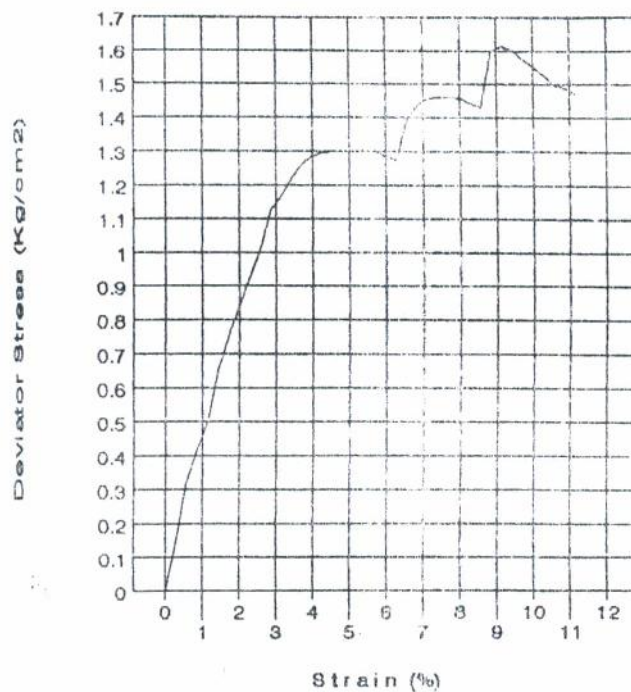
Diameter (cm)	3.50
Height (cm)	7.00
Wet density (gr/cm ³)	1.45
Water content (%)	45.47
Dry density (gr/cm ³)	1.00

Stress (kg/cm ²)	Sample		
	I	II	III
3	0.40	0.80	1.20
Deviator	1.30	1.46	1.62
1	1.70	2.26	2.82
Pore water pressure	0.00	0.00	0.00

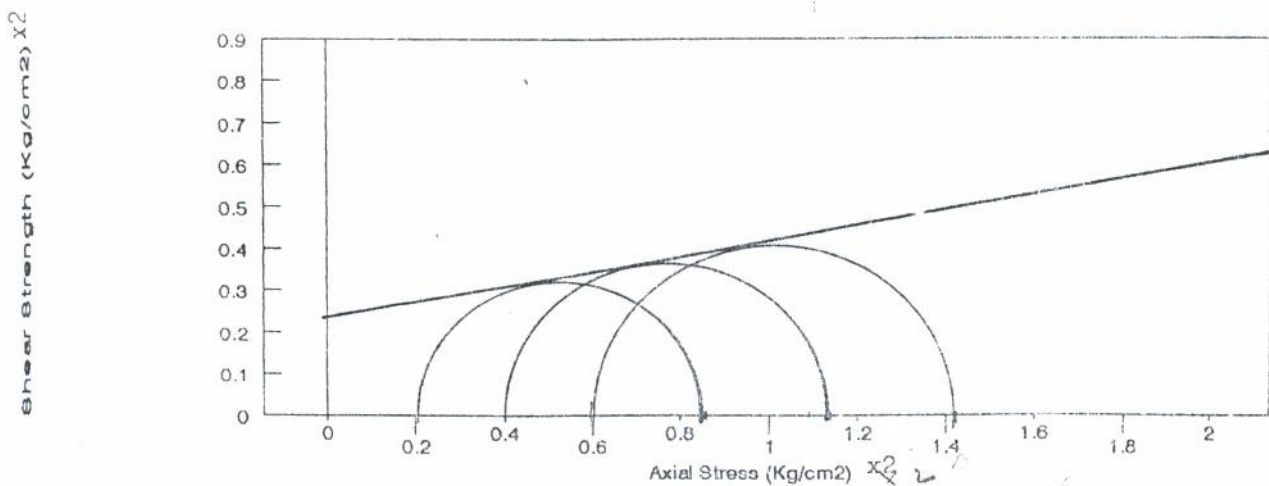
Shear Strength Parameters

Cohesion Undrained (C _u), kg/cm ²	0,46
Internal Angle Friction (Degree)	10°

Stress-Strain Curve



Mohr Coulomb Curve





TRIAXIAL U.U TEST

Project	STO TELKOM.	Date of test	MAY. 20th. 1996
Location	DESA SUKA SARI. RUMPIN.	Tested by	Amin Mr
Boring no	B 3	Checked by	NANA S
Depth	100 - 145 CM.	Approved by	

Sample Data

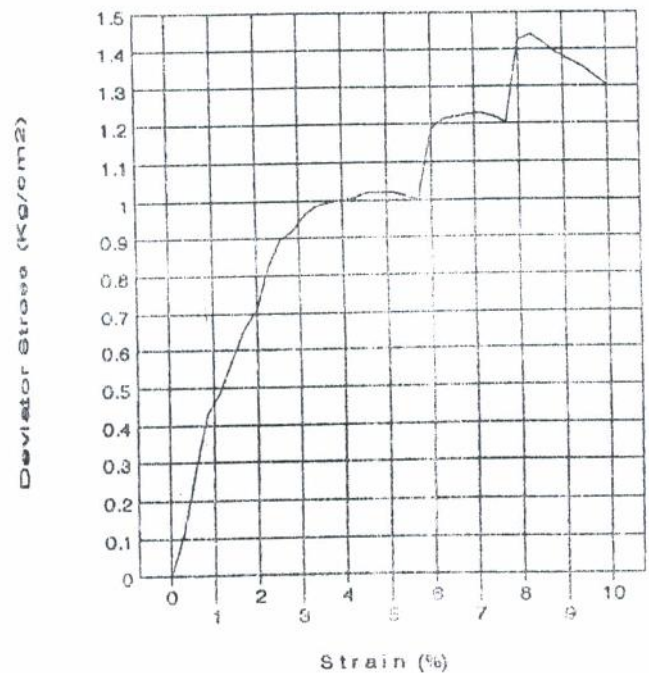
Diameter (cm)	3.50
Height (cm)	7.00
Wet density (gr/cm ³)	1.43
Water content (%)	39.02
Dry density (gr/cm ³)	1.03

Stress (kg/cm ²)	Sample		
	I	II	III
3	0.30	0.60	0.90
Deviator	1.02	1.23	1.44
1	1.32	1.83	2.34
Pore water pressure	0.00	0.00	0.00

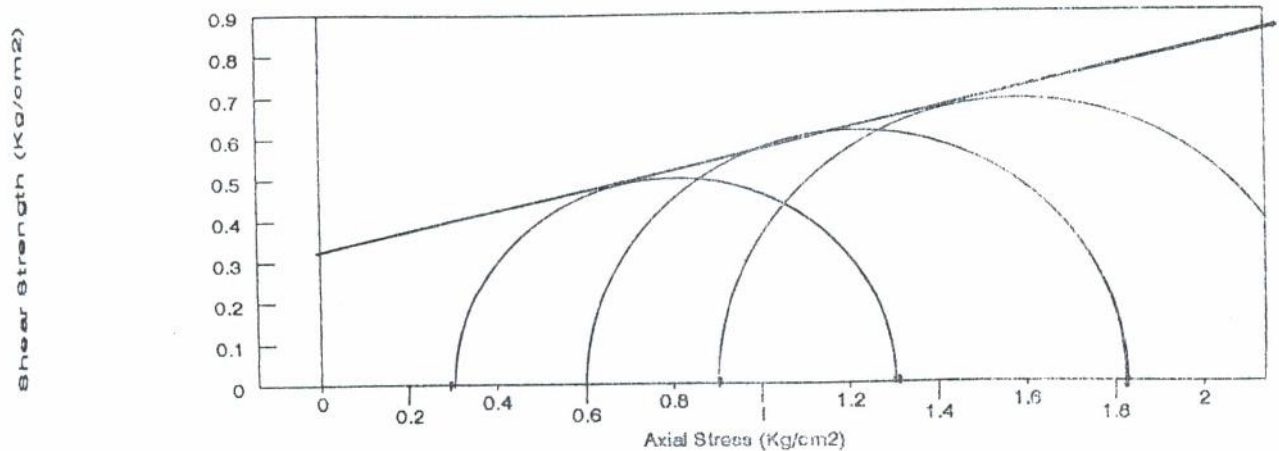
Shear Strength Parameters

Cohesion Undrained (C _u), kg/cm ²	0,33
Internal Angle Friction (Degree)	13,5°

Stress-Strain Curve



Mohr Coulomb Curve





TRIAXIAL U.U TEST

Project	STO TELKOM.	Date of test	MAY. 20th. 1996
Location	DESA SUKA SARI. RUMPIN.	Tested by	Armin Mr
Boring no	B 3	Checked by	NANA S
Depth	250 - 295 CM.	Approved by	

Sample Data

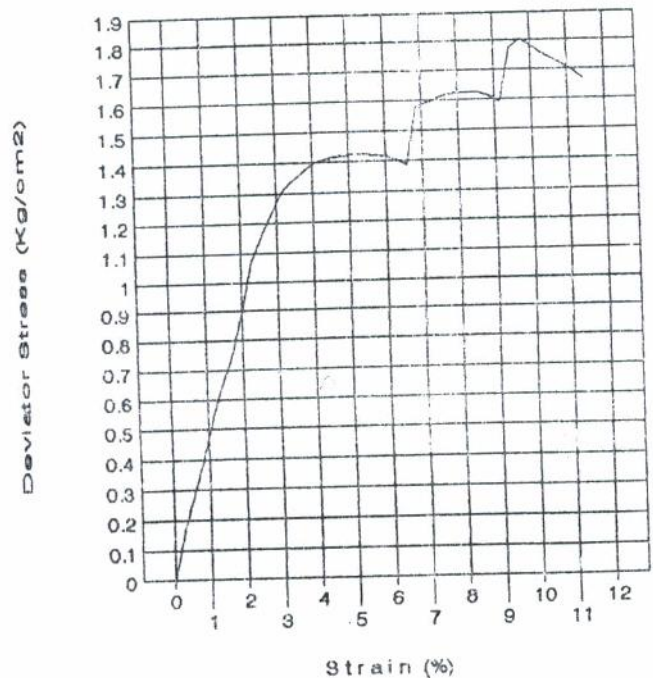
Diameter (cm)	3.50
Height (cm)	7.00
Wet density (gr/cm ³)	1.51
Water content (%)	46.47
Dry density (gr/cm ³)	1.03

Stress (kg/cm ²)	Sample		
	I	II	III
3	0.40	0.80	1.20
Deviator	1.43	1.63	1.81
1	1.83	2.43	3.01
Pore water pressure	0.00	0.00	0.00

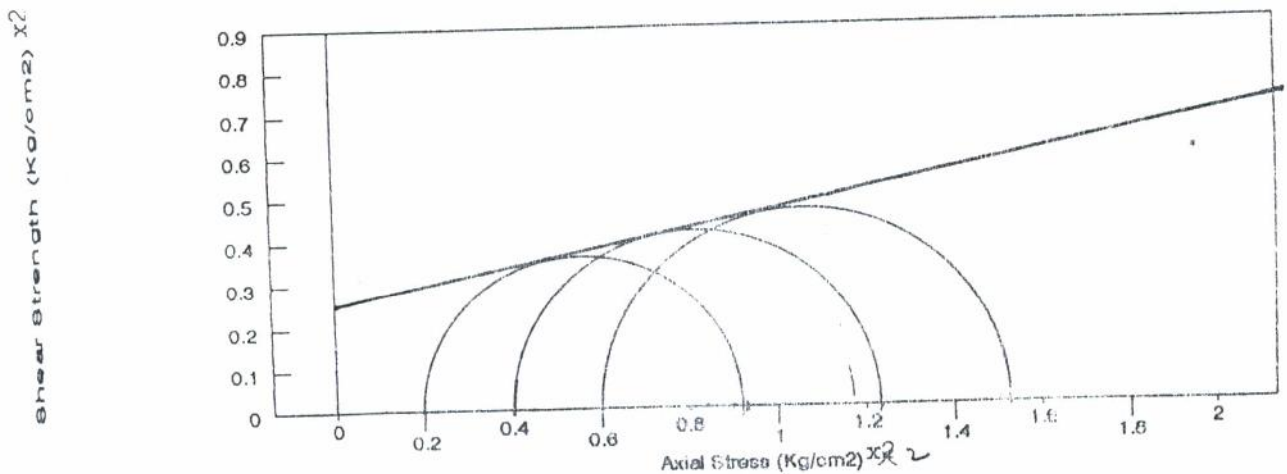
Shear Strength Parameters

Cohesion Undrained (C _u), kg/cm ²	0.50
Internal Angle Friction (Degree)	13°

Stress-Strain Curve



Mohr Coulomb Curve

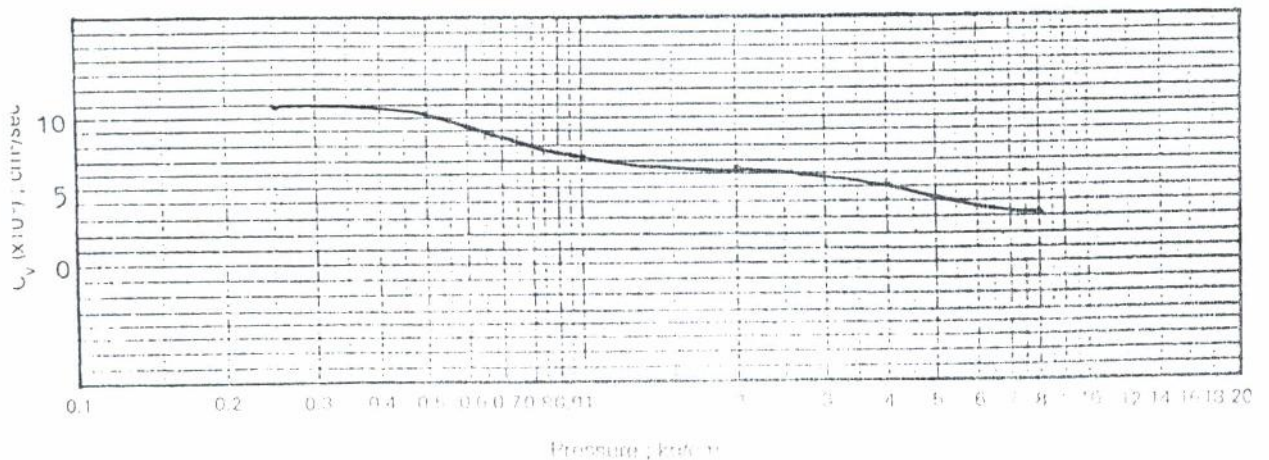
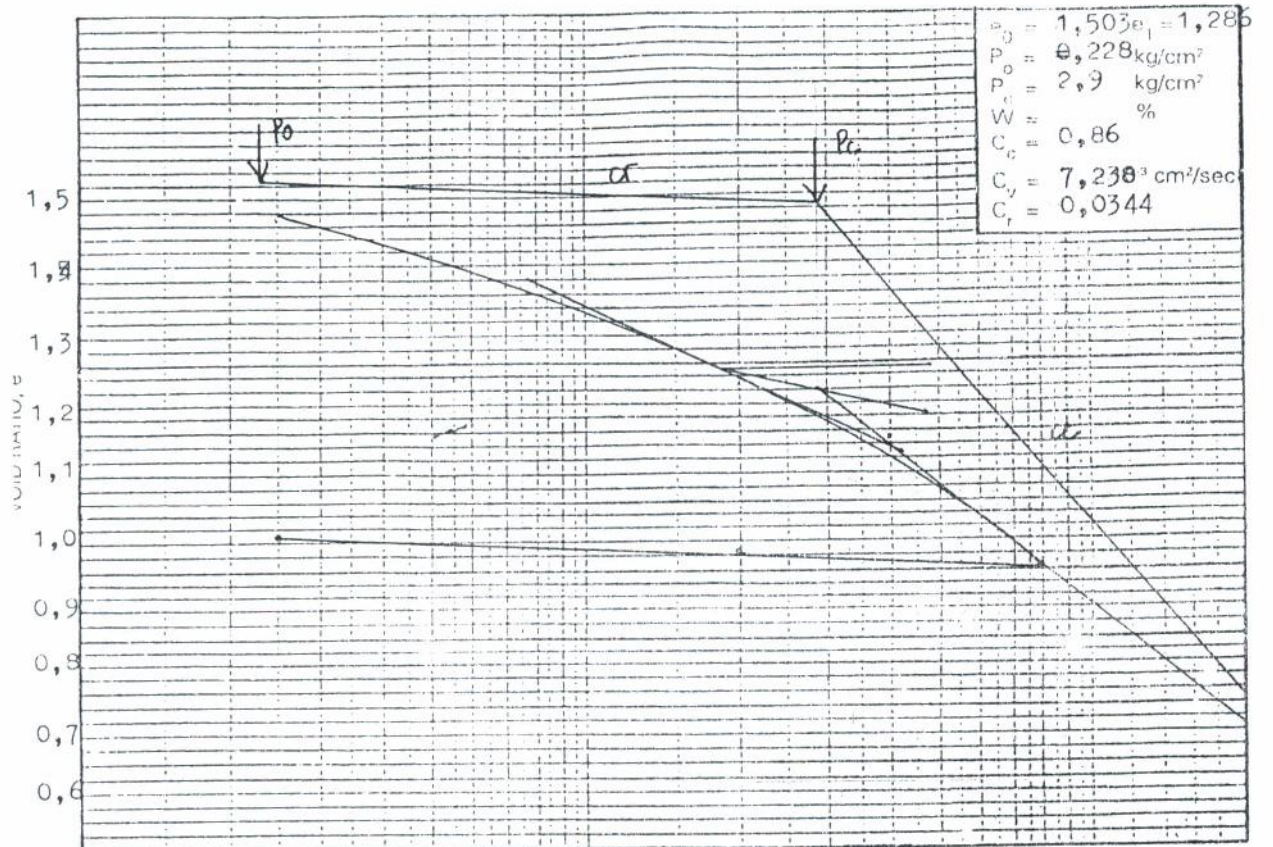




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INSTITUT SAINS DAN TEKNOLOGI NASIONAL - JAKARTA
Kampus ISTN Bhumi Srengseng Telp. 7270092 Fax. 7270090

CONSOLIDATION TEST

Project : STO Telkom Depth of Sample : 100 - 145 .
Location : Desa Sukasari-Rumpin Jabar. Date of test : Mei 1996 .
Boring no. : B - 1 . Test by : Rr Prihadini N

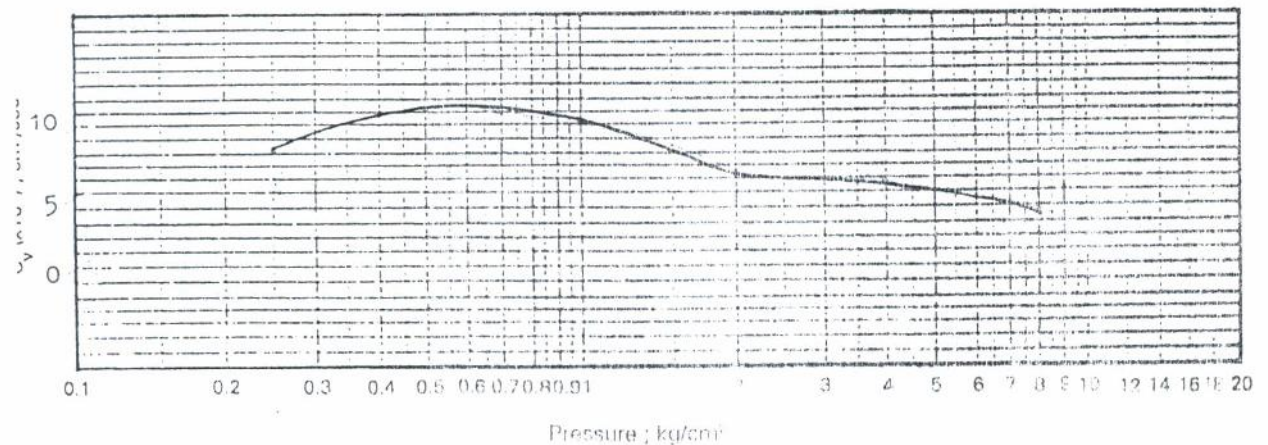
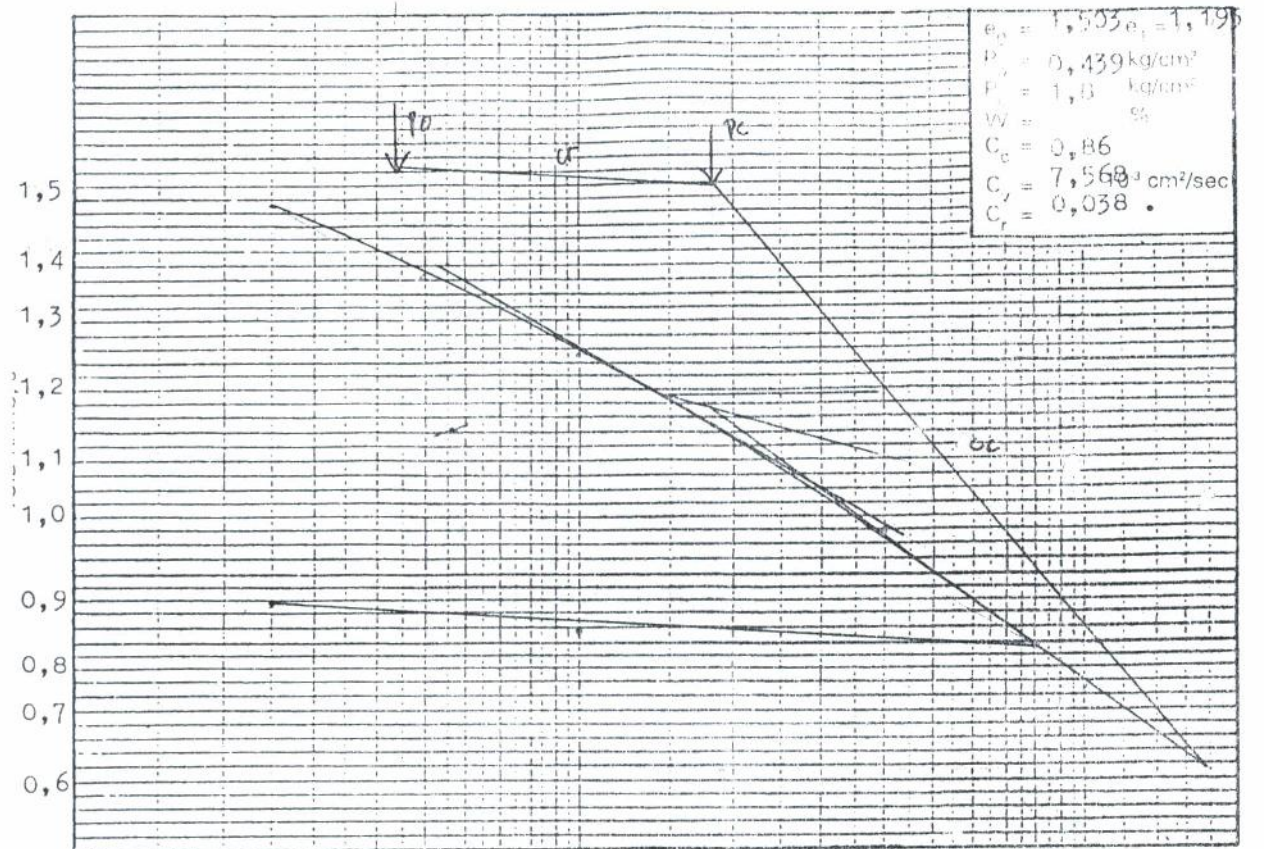




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CONSOLIDATION TEST

Project : STO Telkom
Location : Desa Sukasari Rumpin, Jabar
Boring no. : B - 1
Depth of Sample : 250 - 295
Date of test : Mei 1996
Test by : Rr Prihadini N



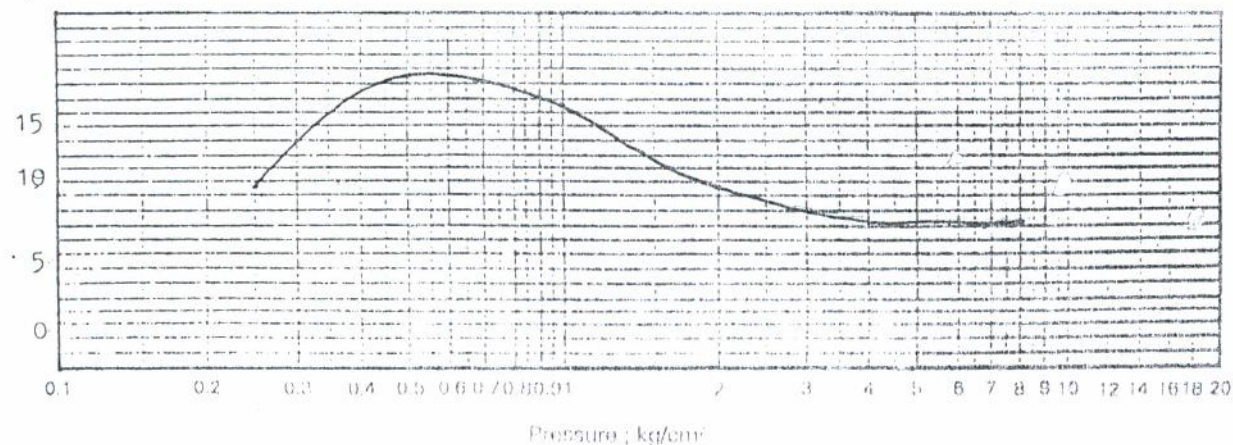
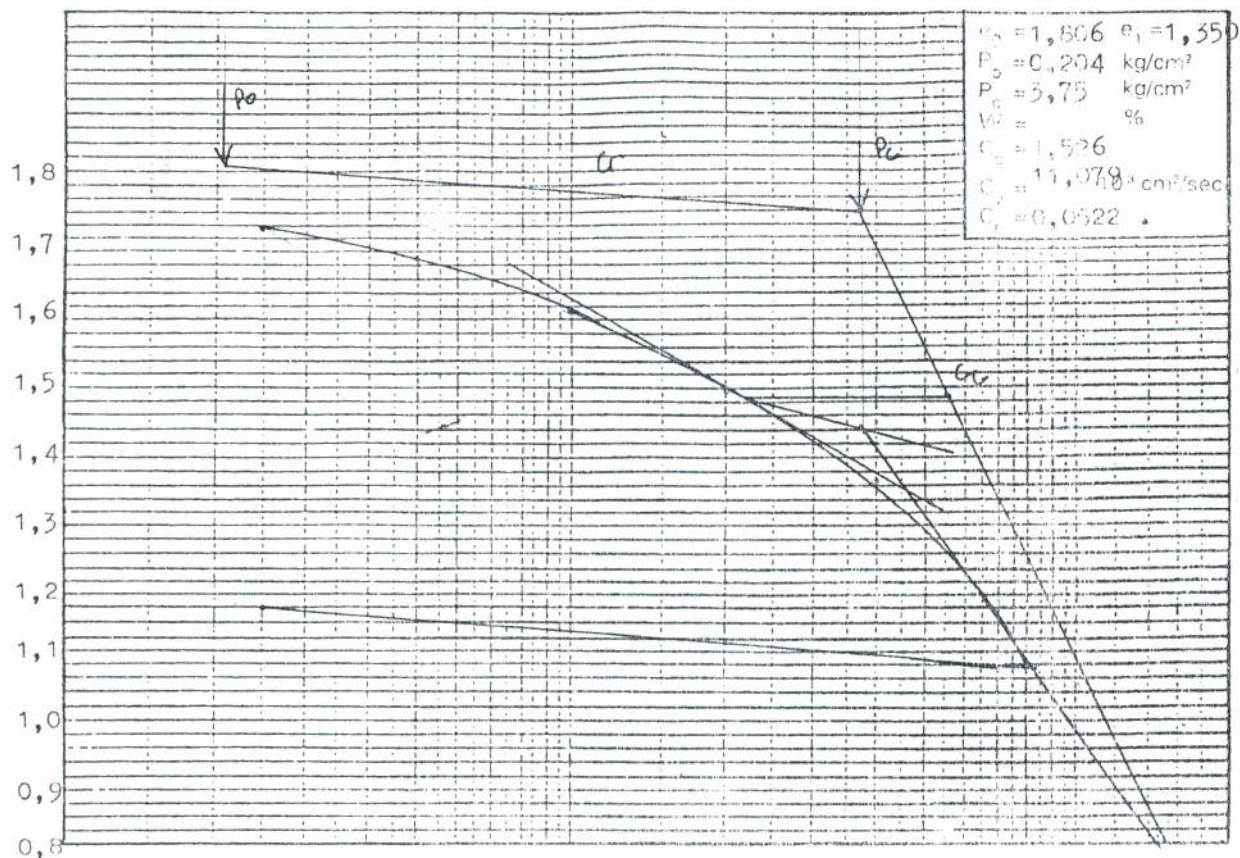


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CONSOLIDATION TEST

Project : STO Telkom
Location : Desa Sukasari-Jabar.
Boring no. : B - 2 .

Depth of Sample : 100-115 .
Date of test : Mei 1992 .
Test by : Rr Prihadini N





CONSOLIDATION TEST

Project : STO Telkom

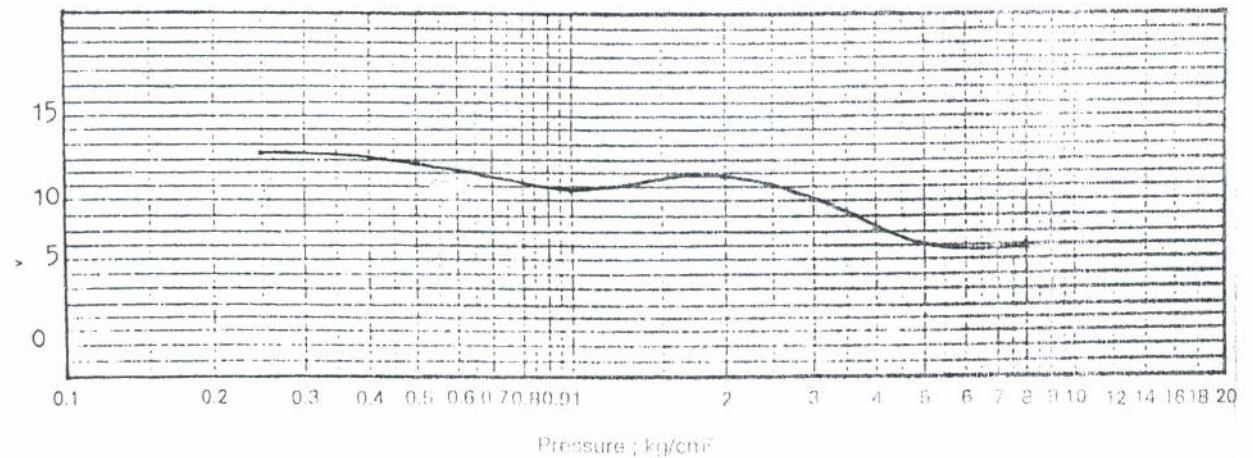
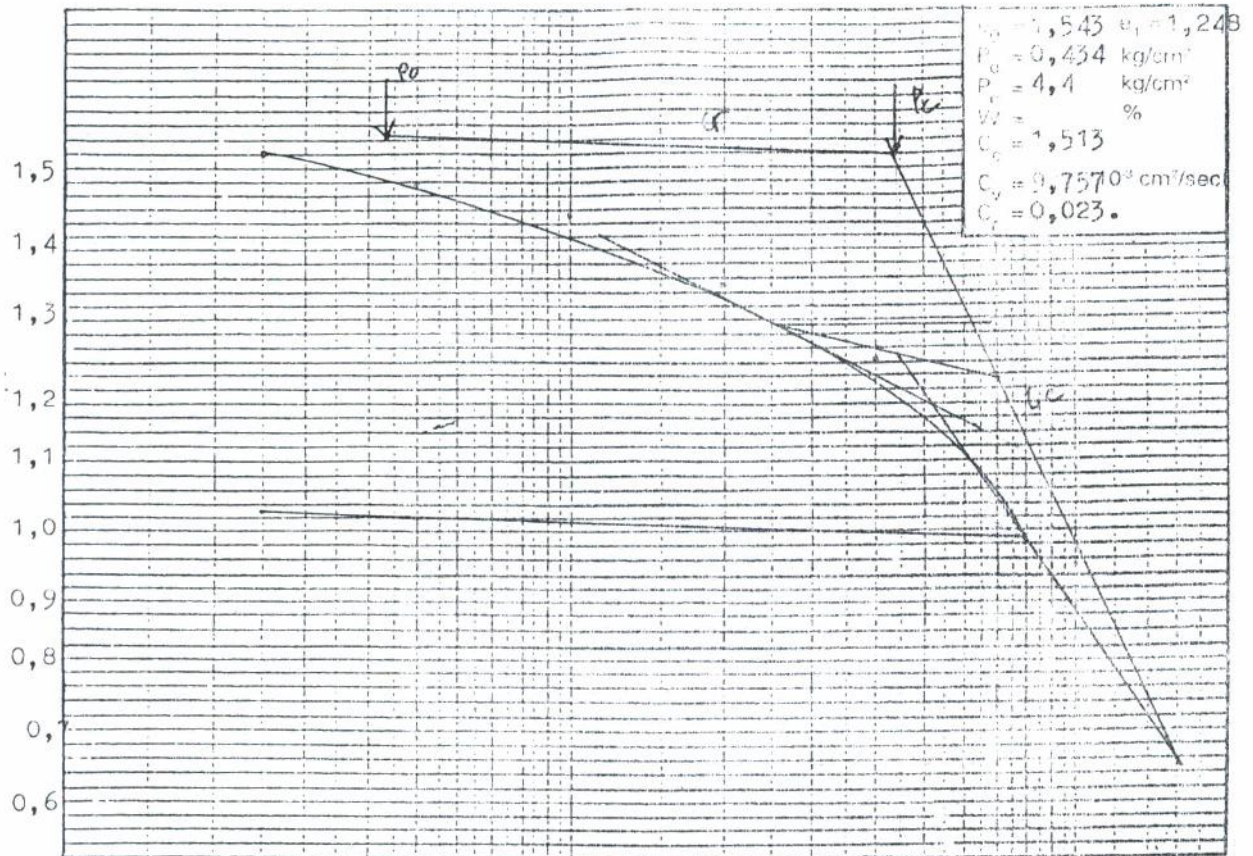
Depth of Sample : 250 - 295 .

Location : Desa Sukasari Rumpin-Jabar

Date of test : Mei 1996 .

Boring no : B - 2 .

Test by : Pr Prihadini N

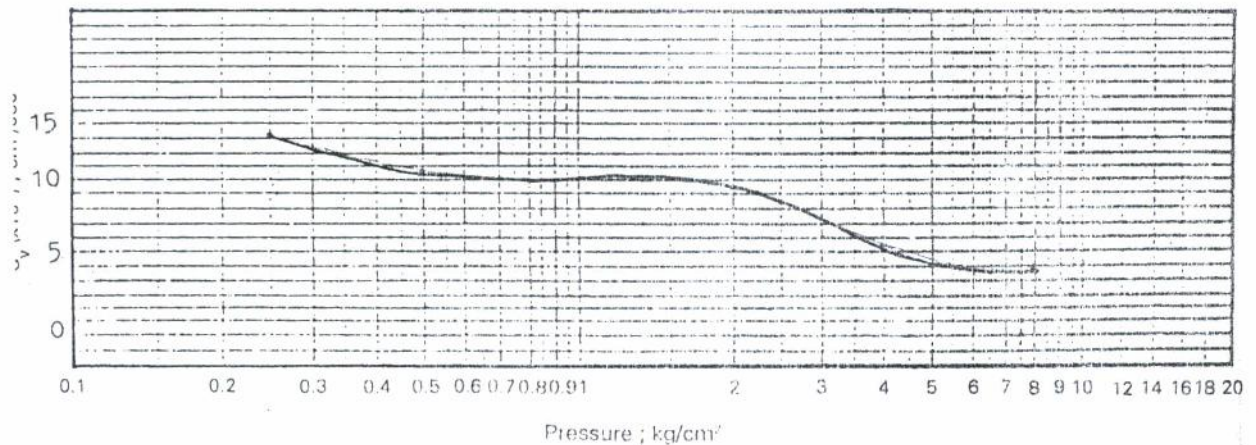
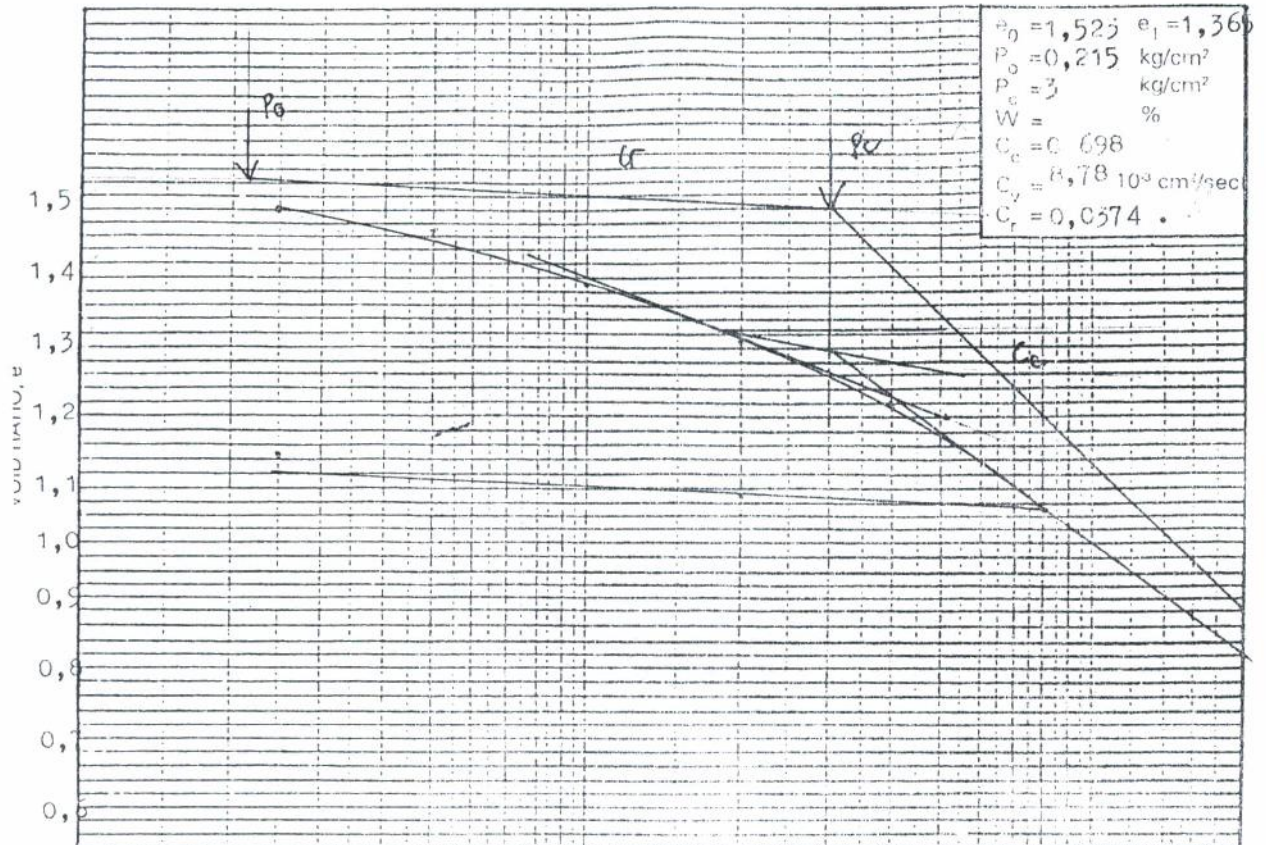




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CONSOLIDATION TEST

Project : STN Telkom
Location : Desa Sukasari-Rumpin, Jabar.
Boring no. : B - 3 .
Depth of Sample : 100 - 140 .
Date of test : Mei 1996 .
Test by : Rr Prihadini N





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Kampus ISTN Bhumi Srengseng Telp. 7270092 Fax. 7270090

CONSOLIDATION TEST

Project : ST0 Telkom
Location : Desa Sukasari-Rumpin, Jabar.
Boring no. : B - 3 .
Depth of Sample : 250 - 295 .
Date of test : Mei 1996 .
Test by : Br Pramadini N .

