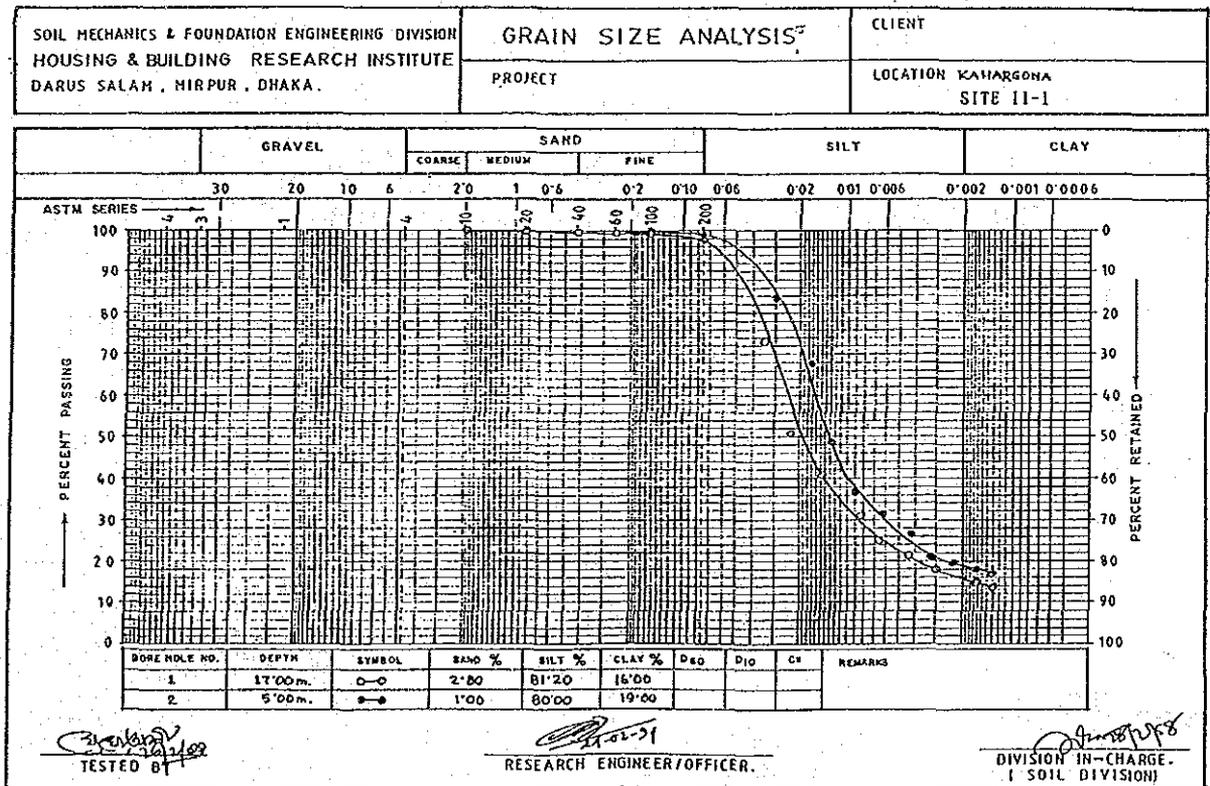
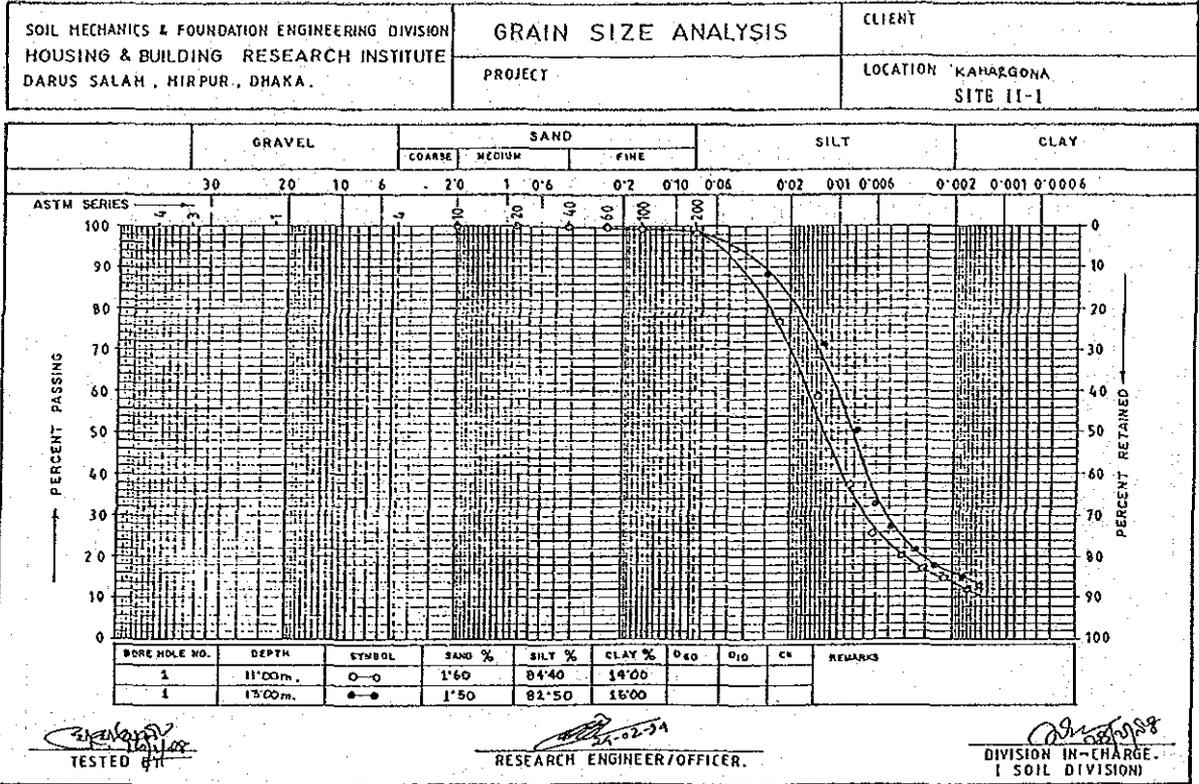
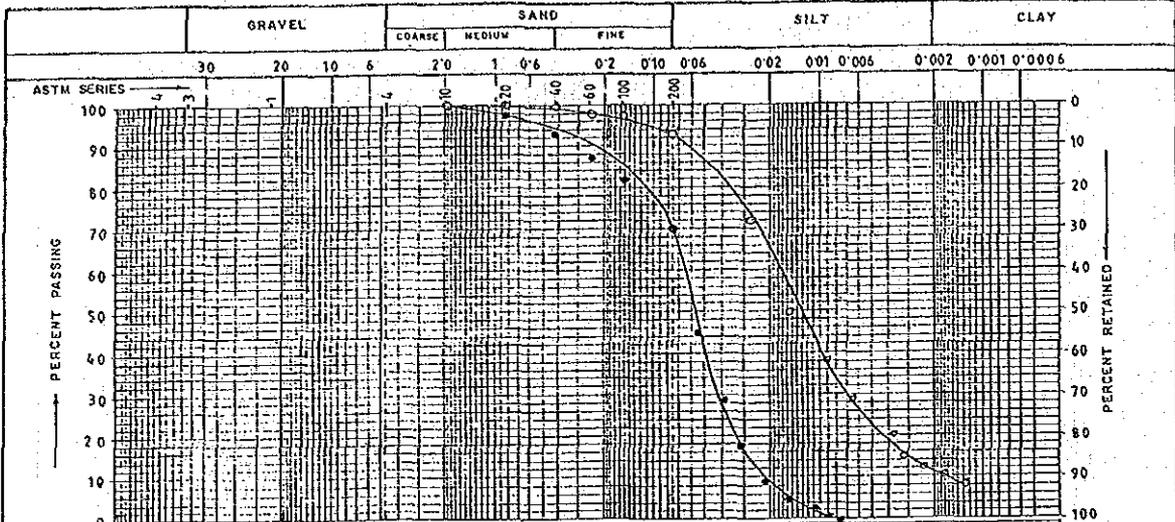


7-2-5 粒径加積曲線



SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION KAHARGAHA SITE II-1



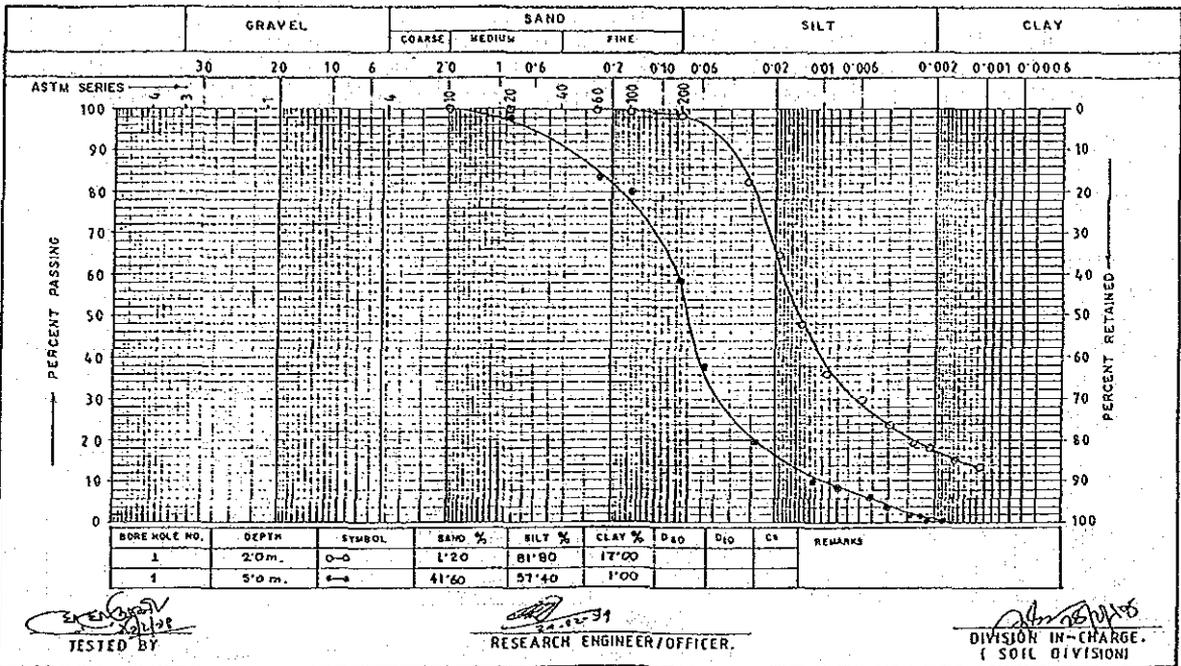
BORE HOLE NO.	DEPTH	SYMBOL	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u	REMARKS
2	9'00m.	O-O	68.80	22.20	11.00				
2	14'00m	B-B	30.20	69.80	0.00				

TESTED BY

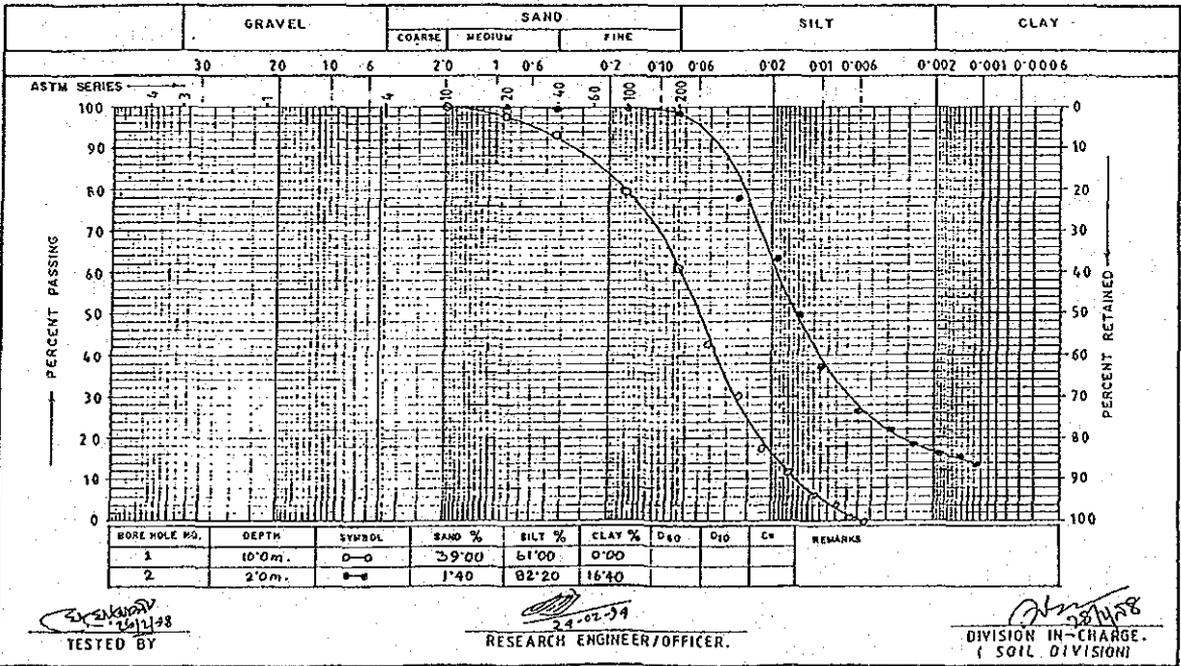
RESEARCH ENGINEER/OFFICER.

DIVISION IN-CHARGE.
(SOIL DIVISION)

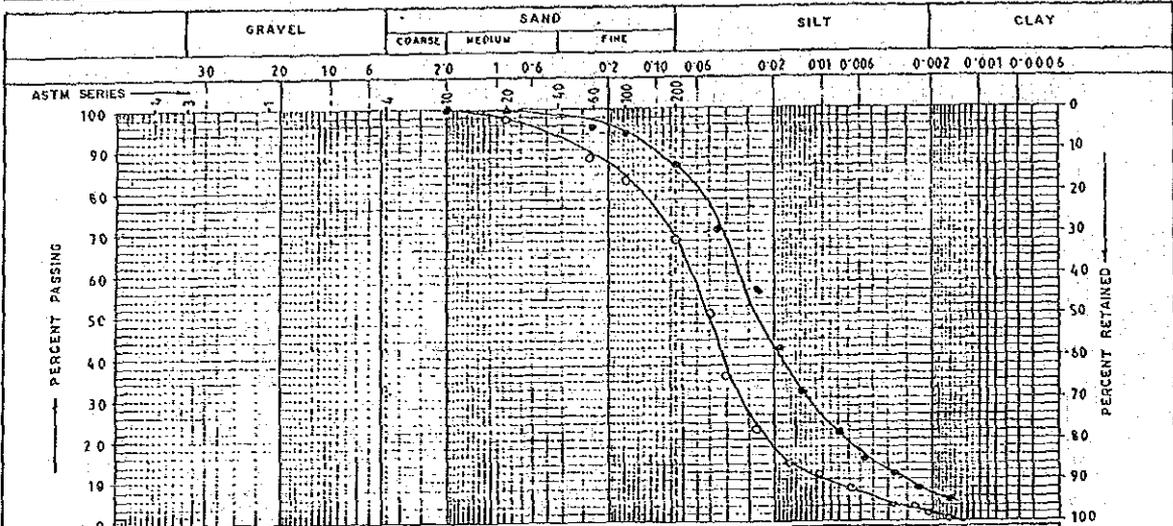
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION RATA KHURDA SITE II-2



SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION RATA KHURDA SITE II-2



SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAH, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION RATA KHURDA SITE II-2

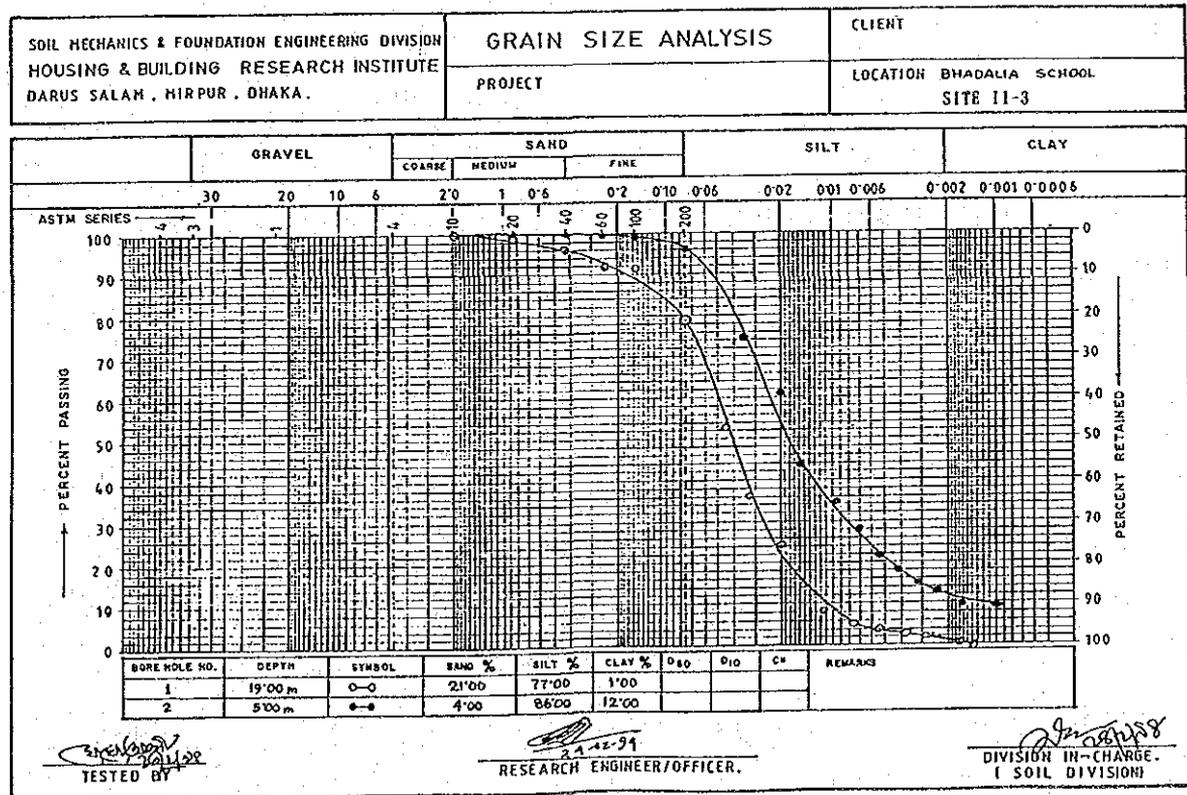
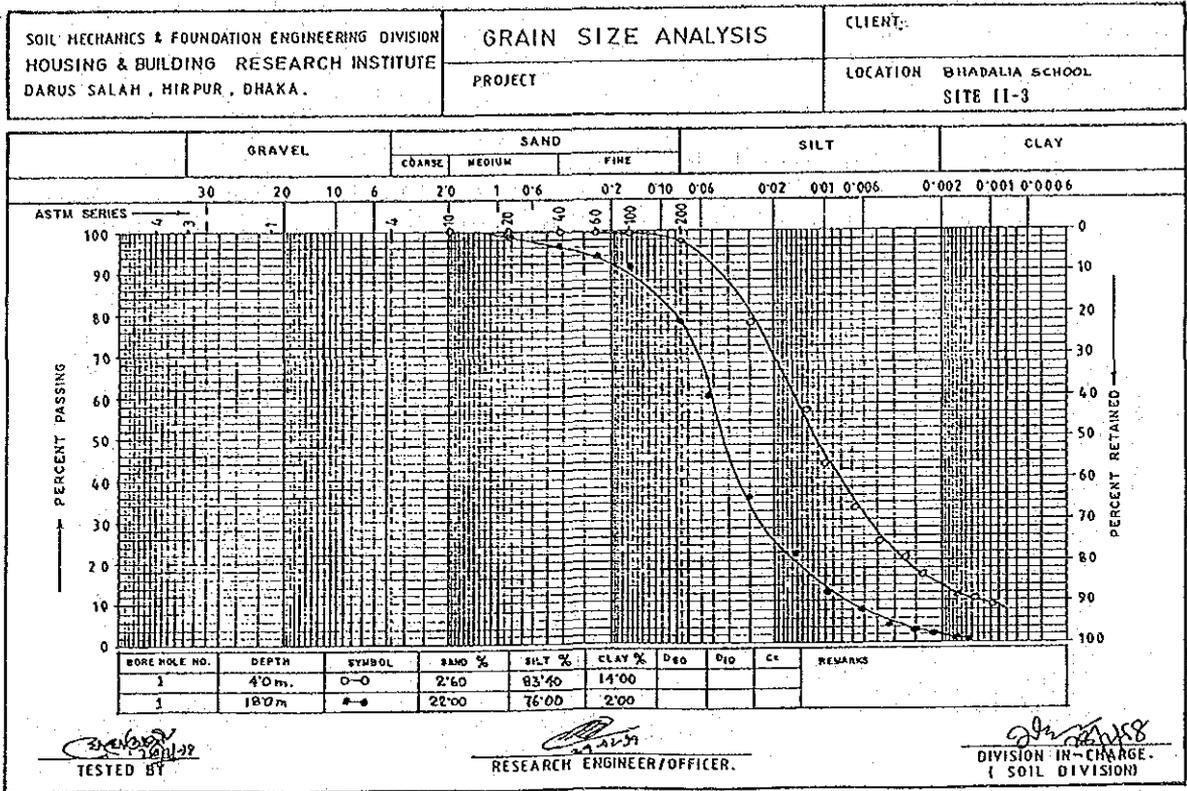


BORE HOLE NO.	DEPTH	SYMBOL	SAND %	SILT %	CLAY %	U ₆₀	U ₃₀	C _u	REMARKS
2	4.0m.	●-●	13.60	79.40	7.00				
2	10.0m.	○-○	31.40	66.60	2.00				

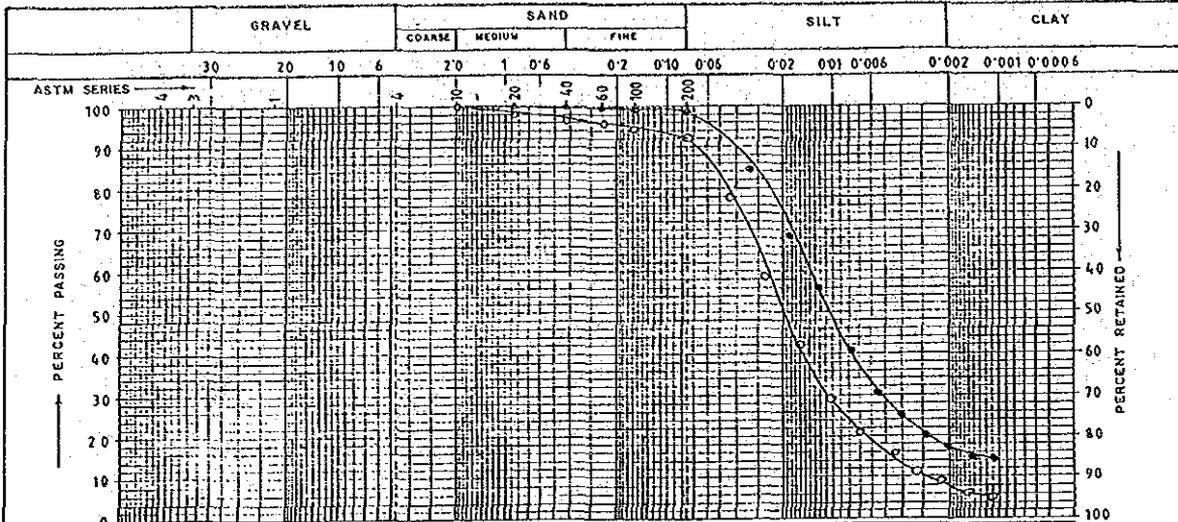
TESTED BY

RESEARCH ENGINEER/OFFICER.

DIVISION IN-CHARGE.
SOIL DIVISION



SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION BHADALIA SCHOOL- SITE II-3

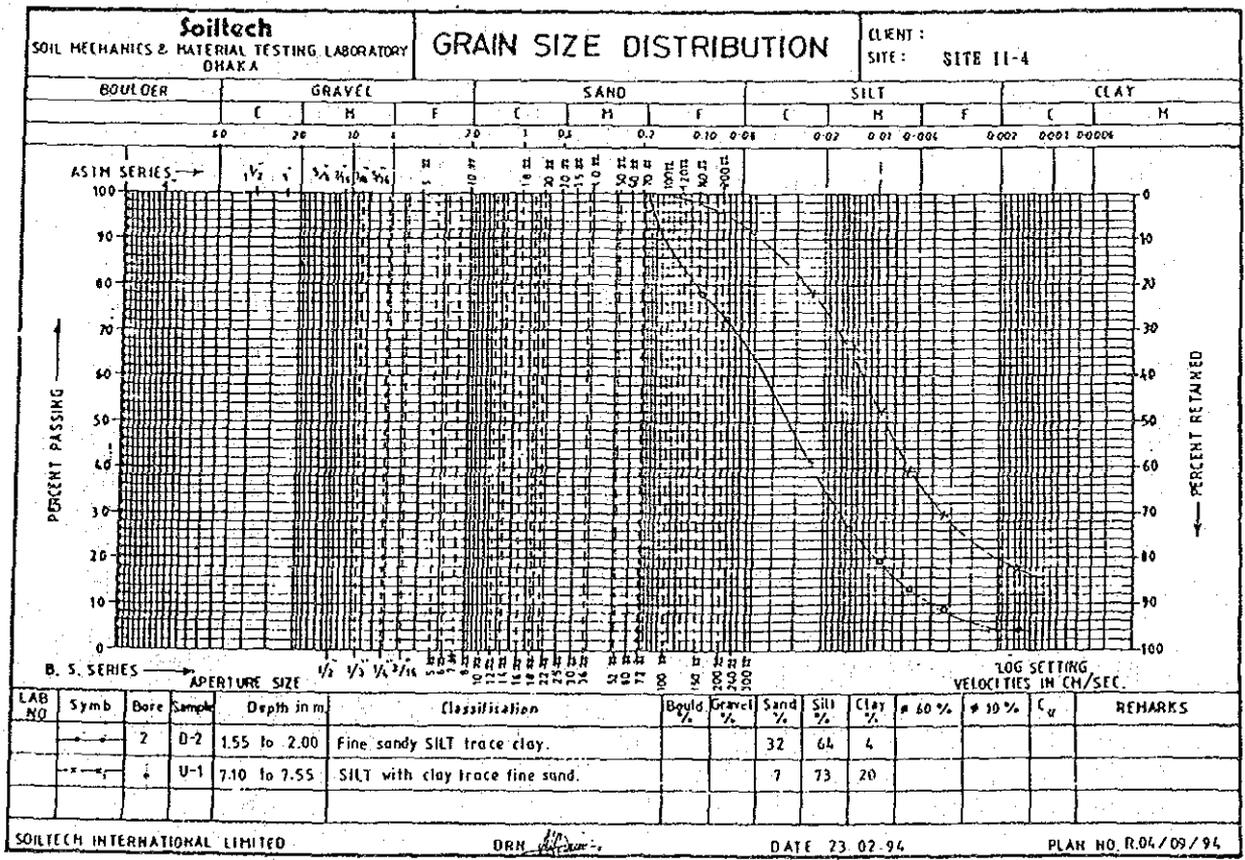
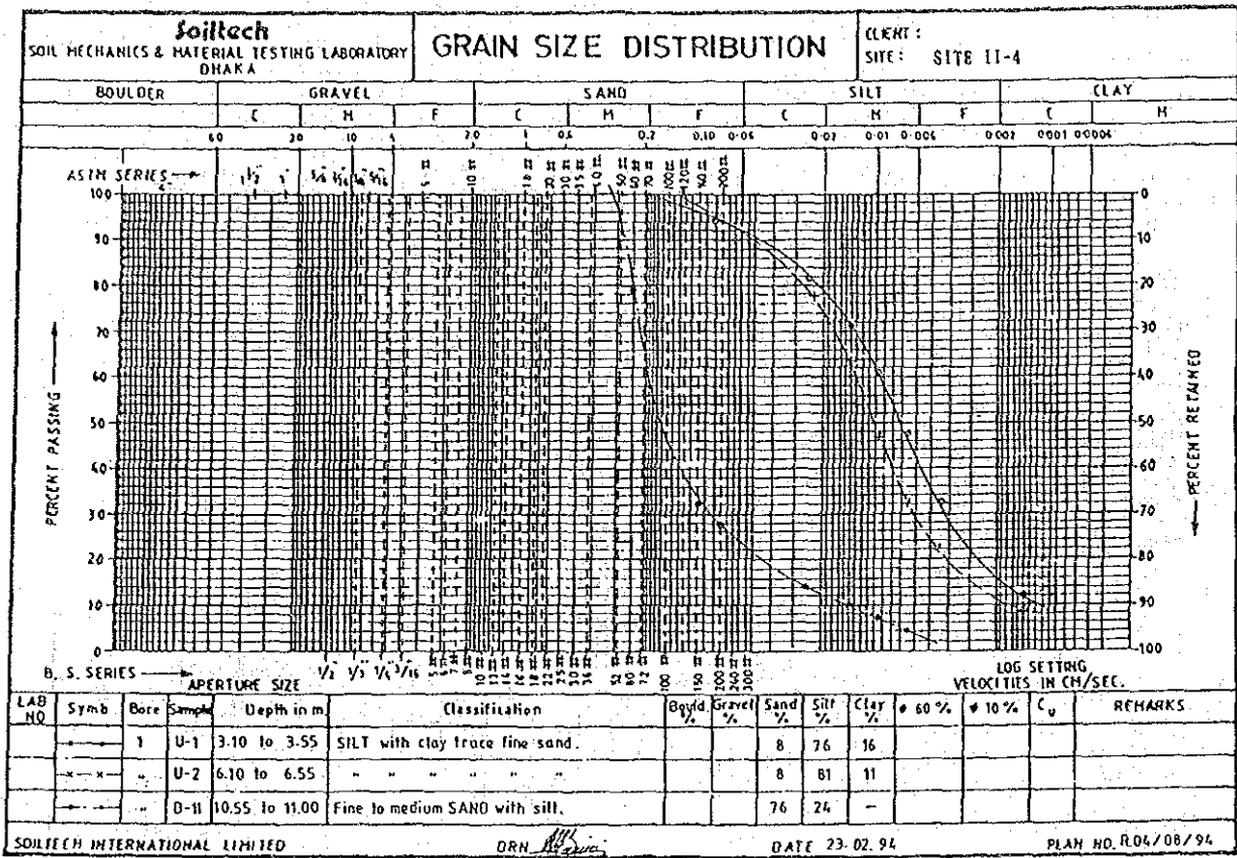


BORE HOLE NO.	DEPTH	SYMBOL	SAND %	SILT %	CLAY %	D ₆₀	D ₁₀	C _u	REMARKS
2	6'00m	0-0	78.0	18.20	3.00				
2	19'00m.	●-●	16.0	64.40	17.00				

[Signature]
TESTED BY

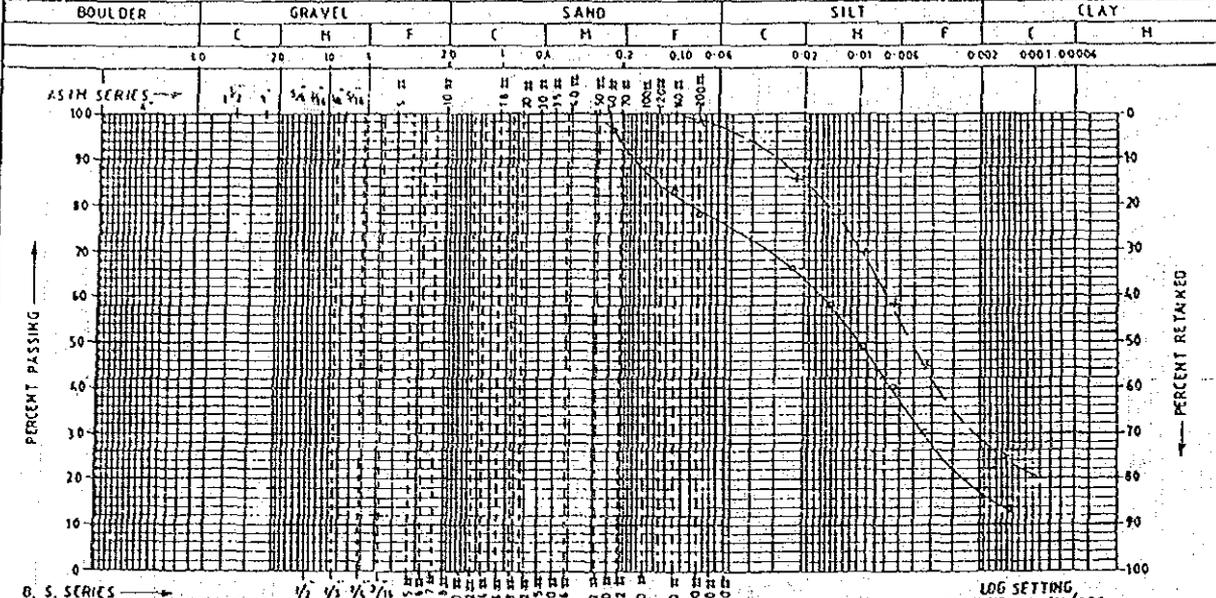
[Signature]
RESEARCH ENGINEER/OFFICER.

[Signature]
DIVISION IN-CHARGE.
SOIL DIVISION

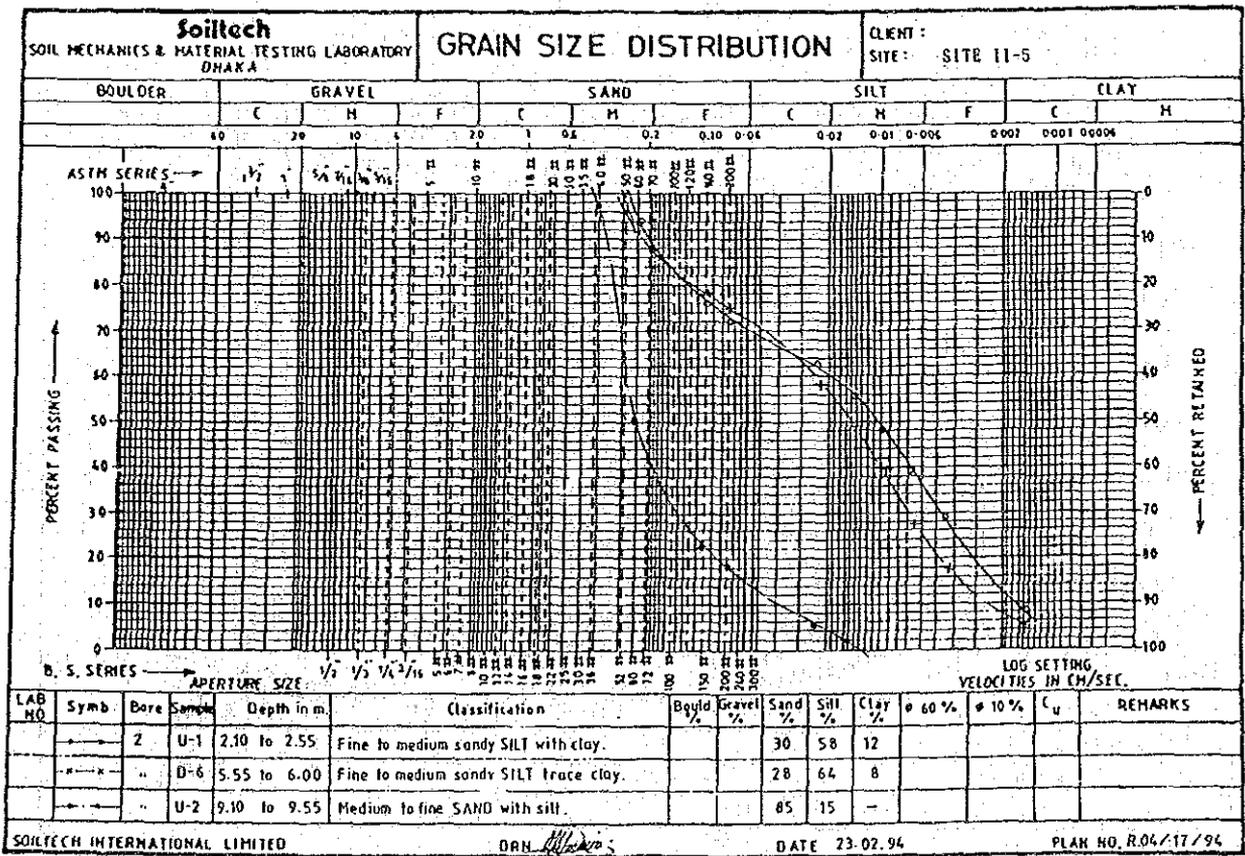
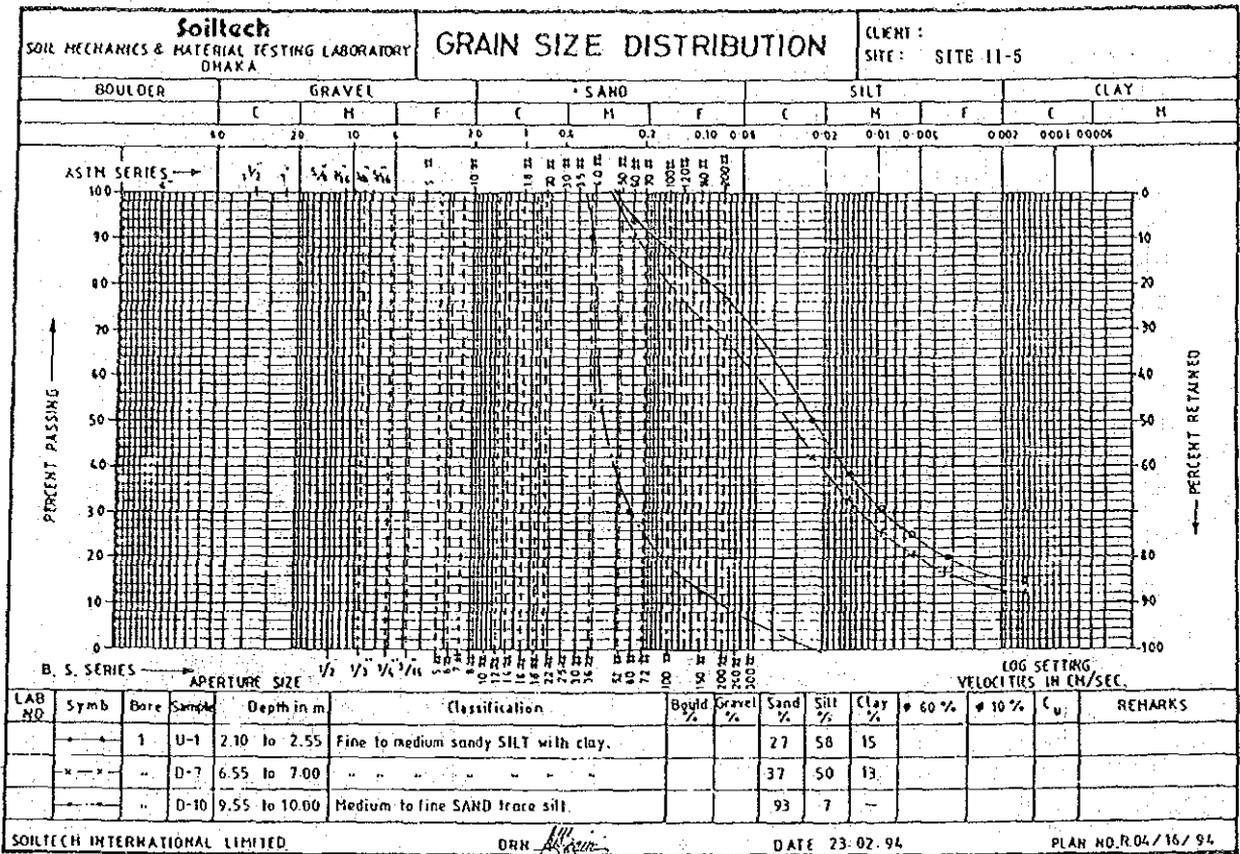


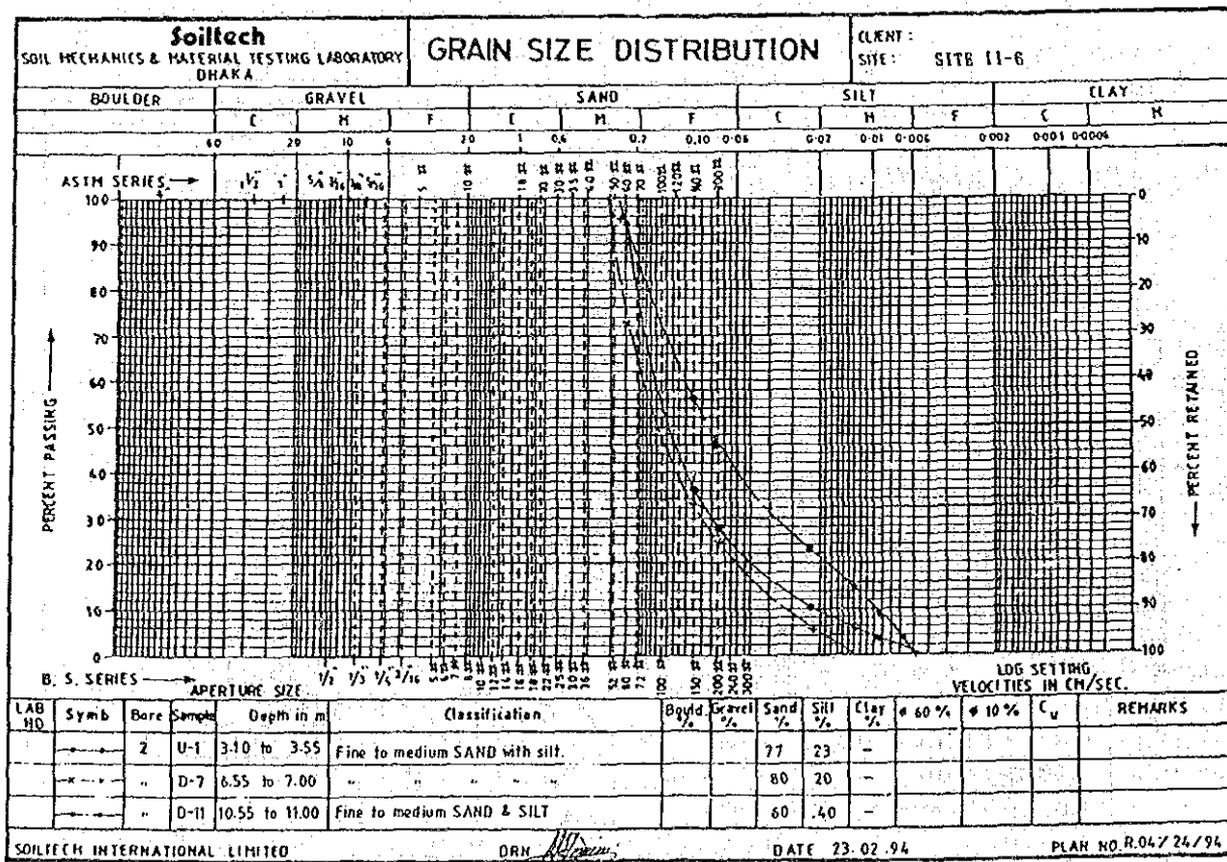
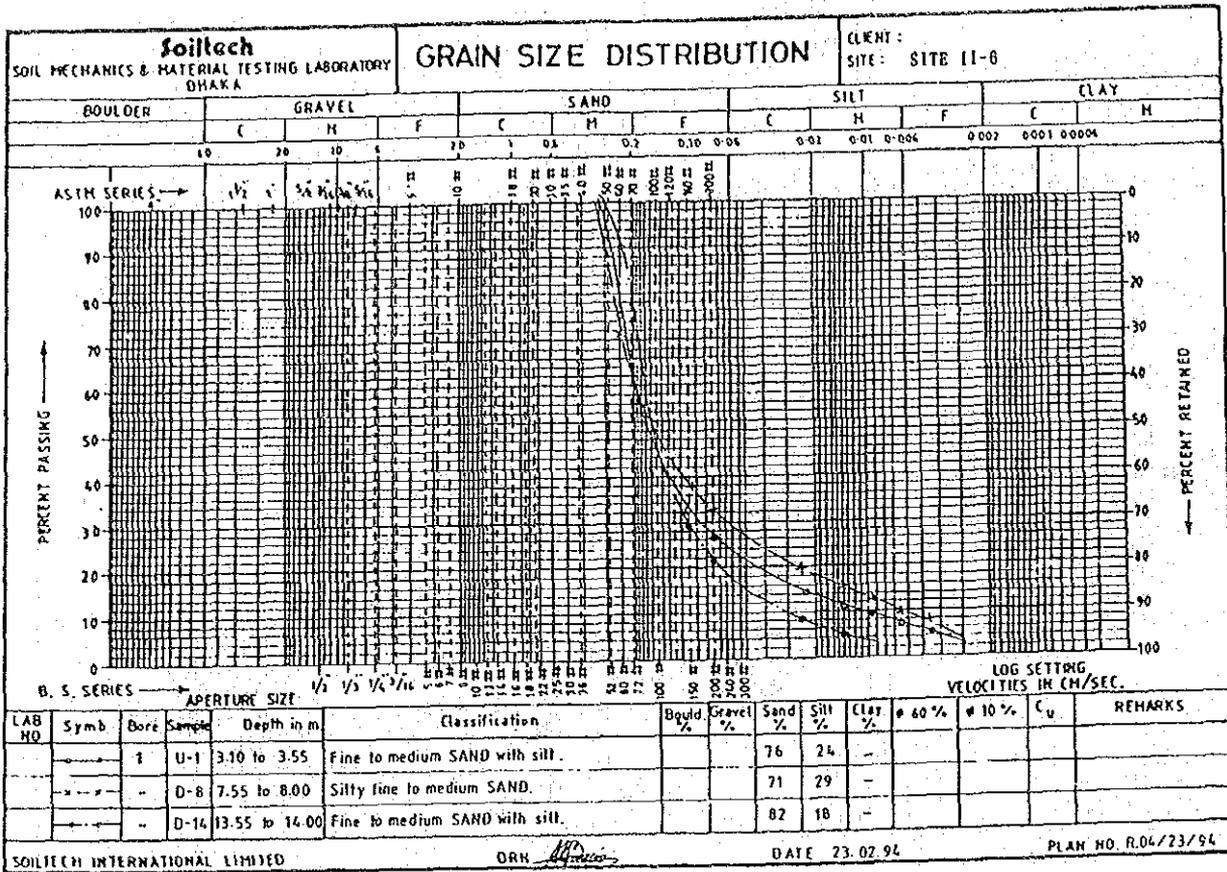
GRAIN SIZE DISTRIBUTION

CLIENT :
SITE : SITB II-4



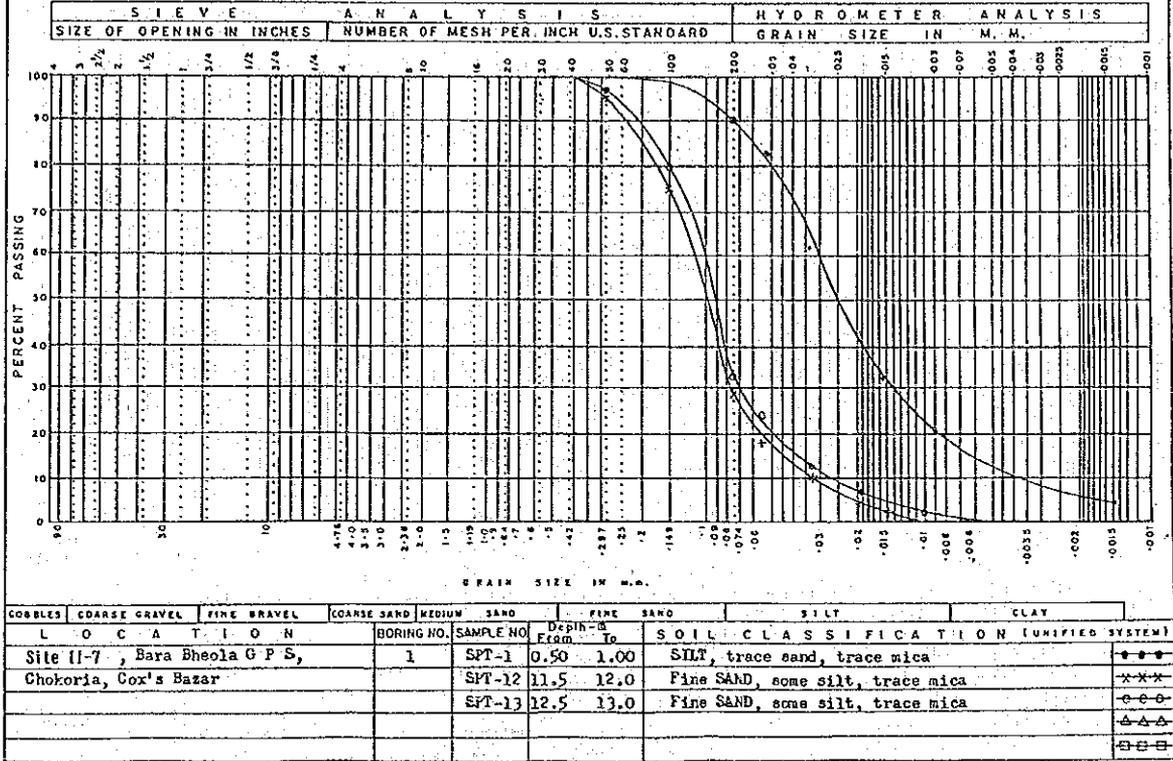
LAB NO	Symb	Bore	Sample	Depth in m	Classification	LOG SETTING VELOCITIES IN CM/SEC.		Sand %	Silt %	Clay %	# 60 %	# 10 %	C _u	REMARKS
						Byrd %	Gravel %							
		2	U-2	8.10 to 8.55	SILT with clay & fine sand.			24	59	17				
			D-12	11.55 to 12.00	SILT with clay trace fine sand.			3	7.8	19				





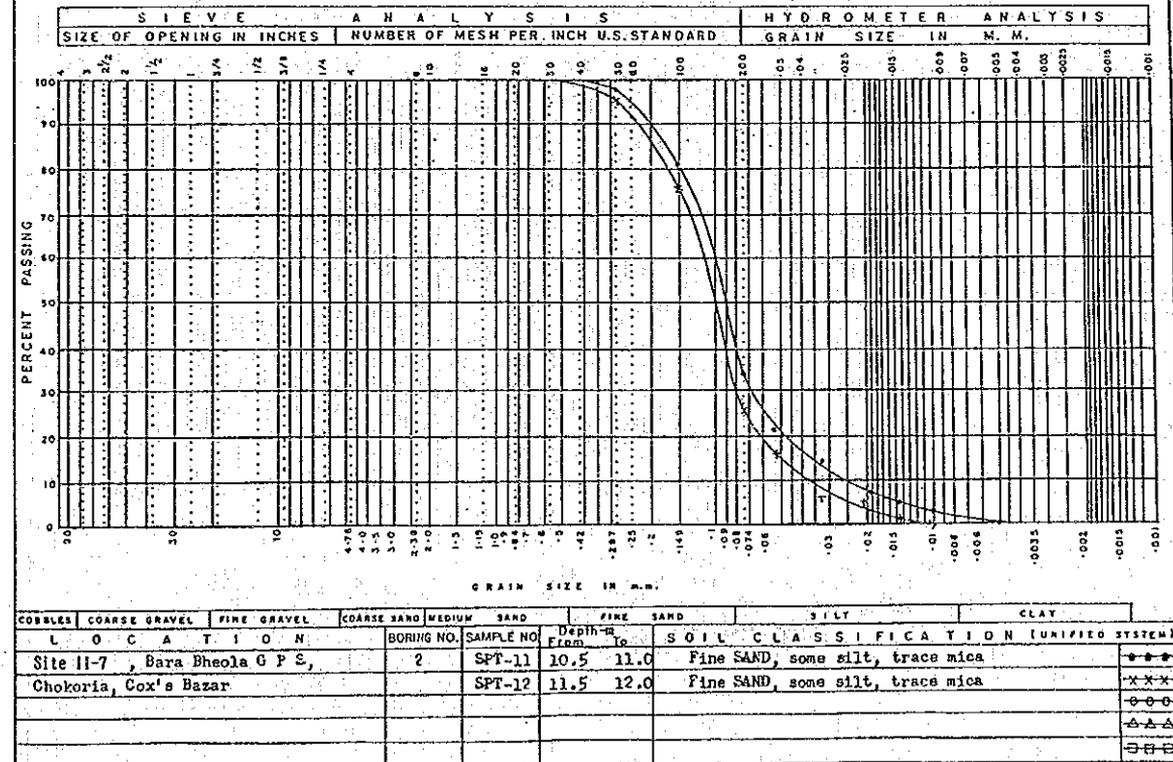
SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3
SITE II-7



SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

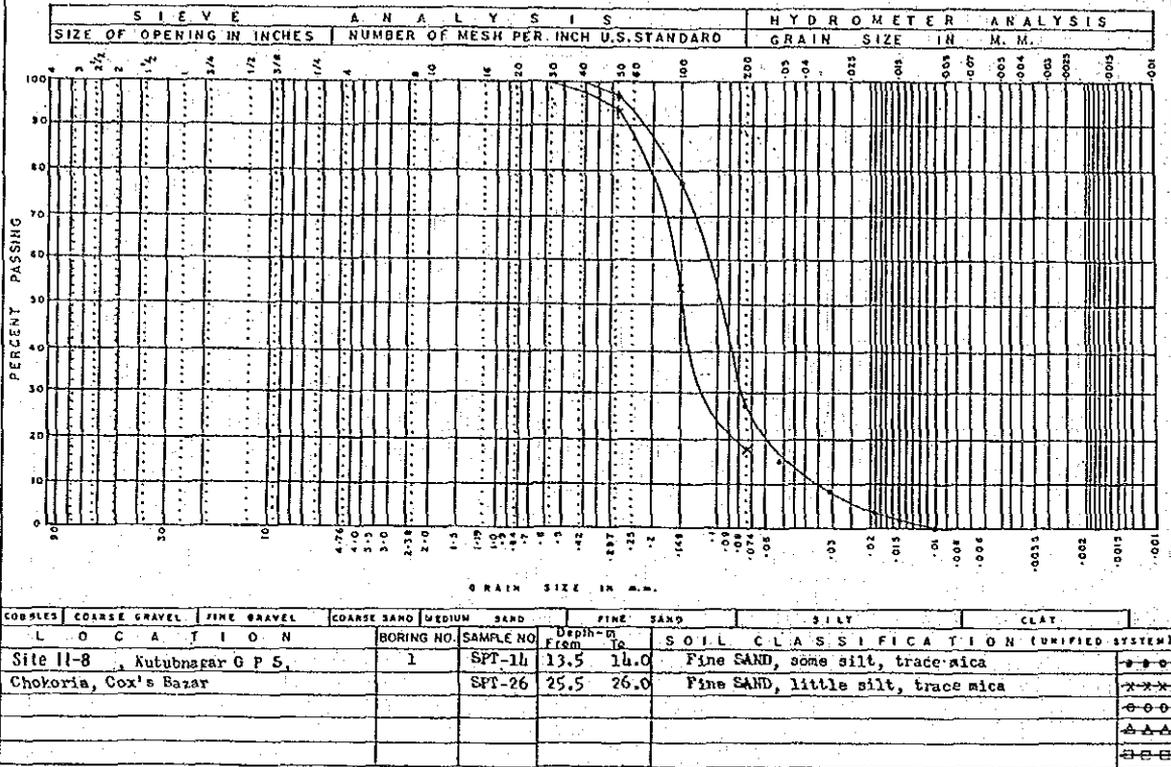
FORM NO. ST-3
SITE II-7



SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3

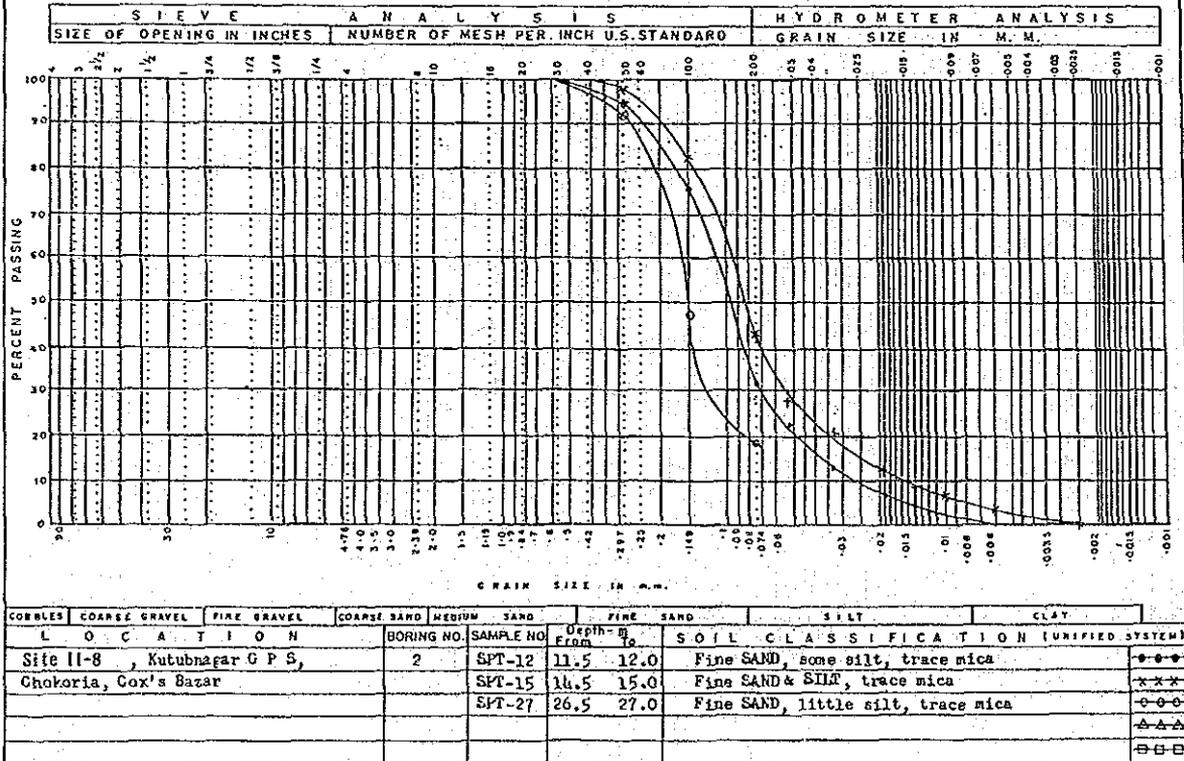
SITE II-8



SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

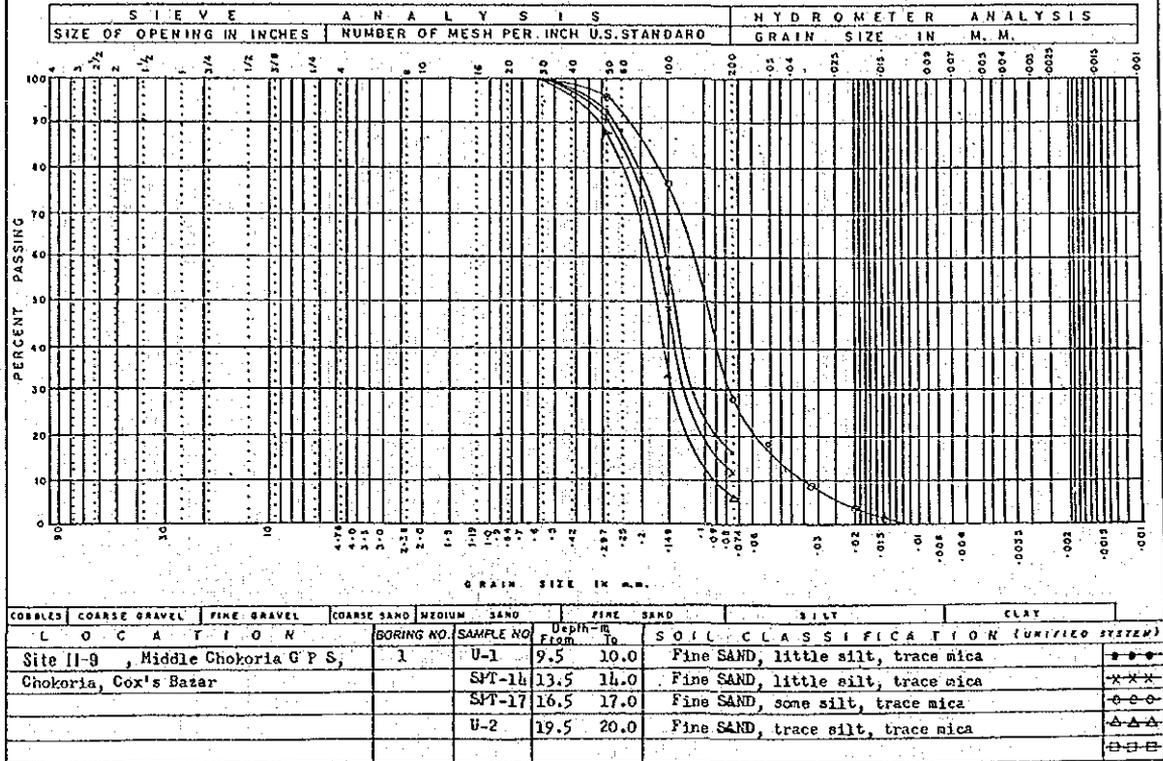
FORM NO. ST-3

SITE II-8



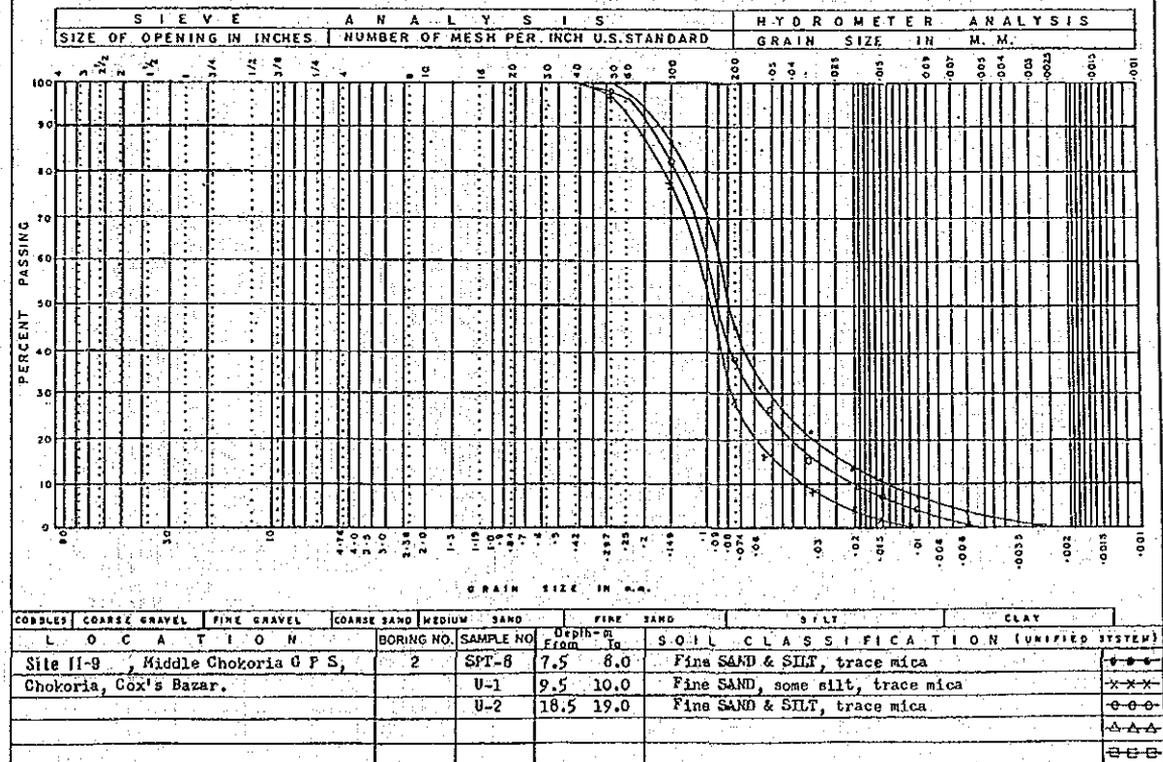
SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

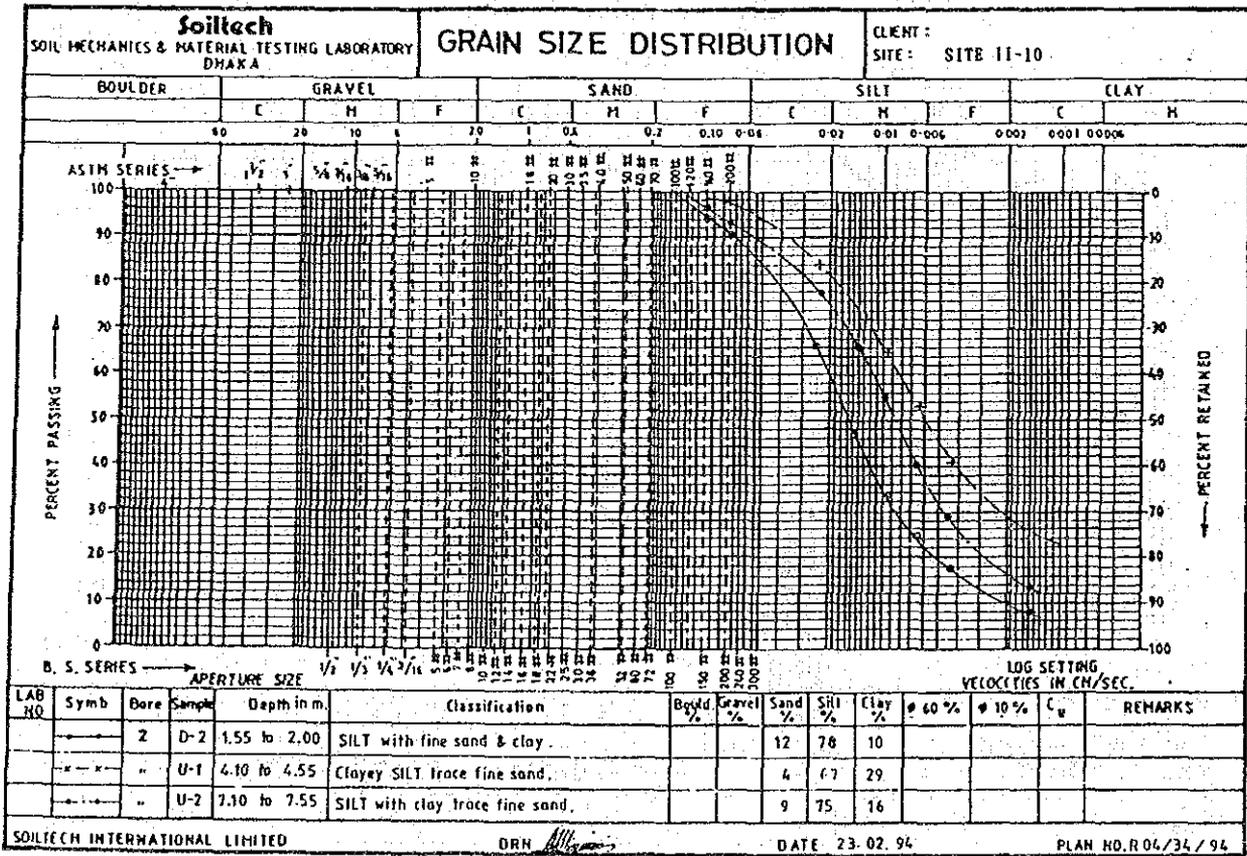
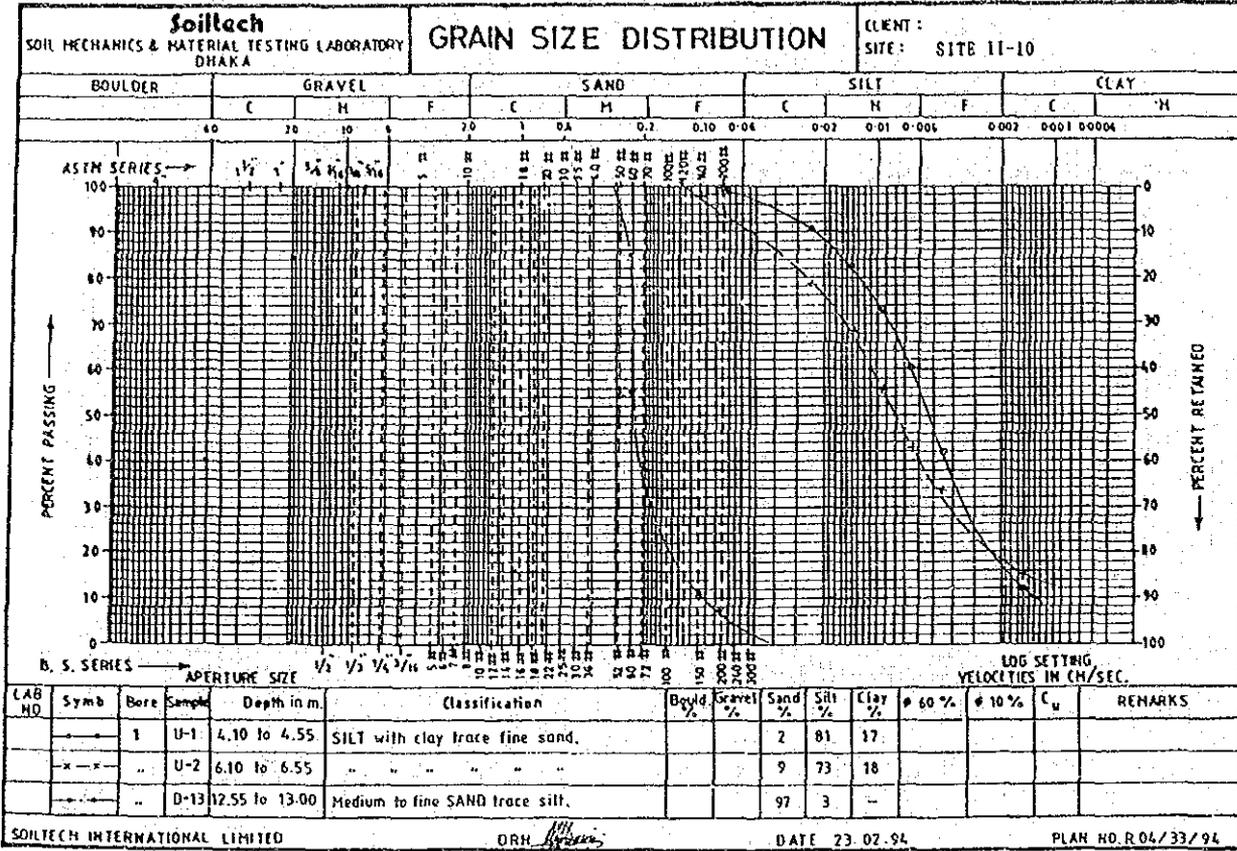
FORM NO. ST-3
SITE II-9

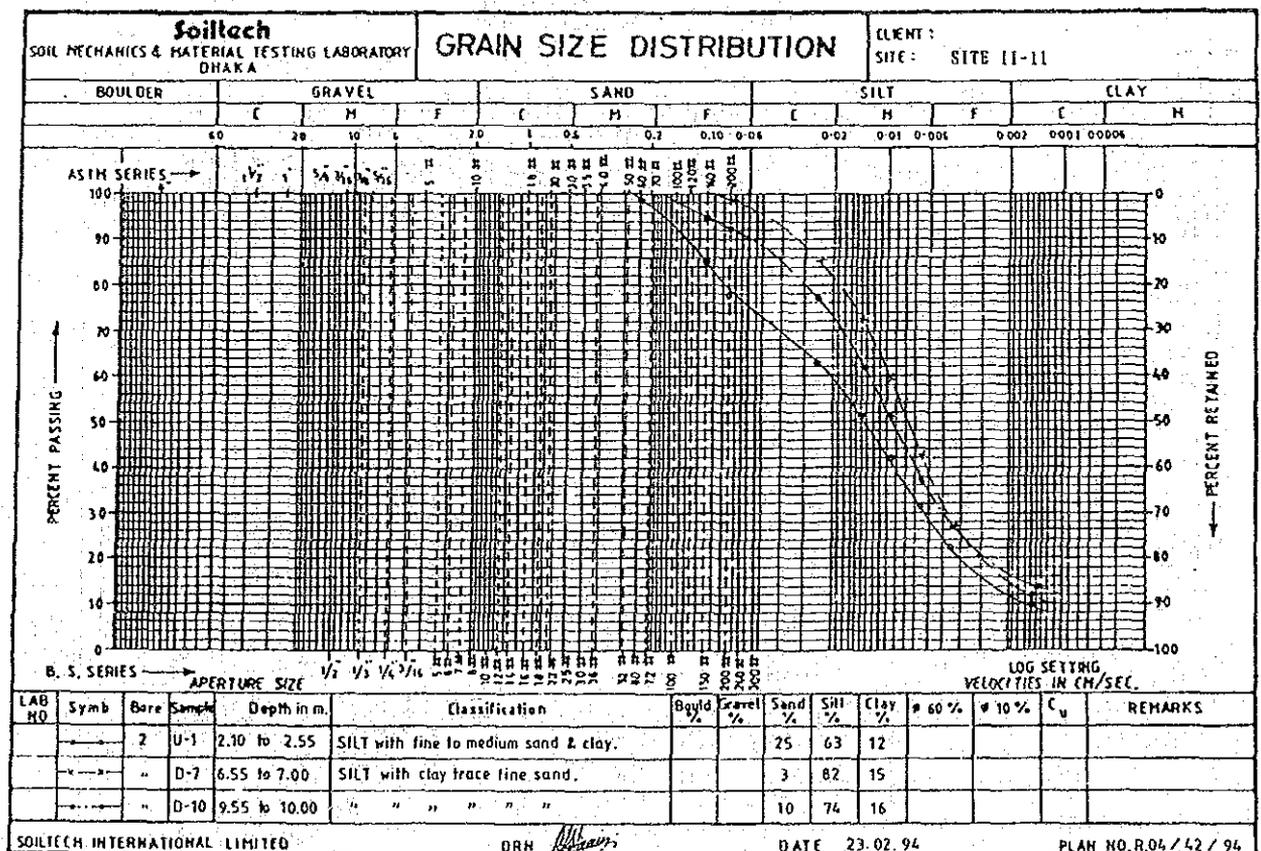
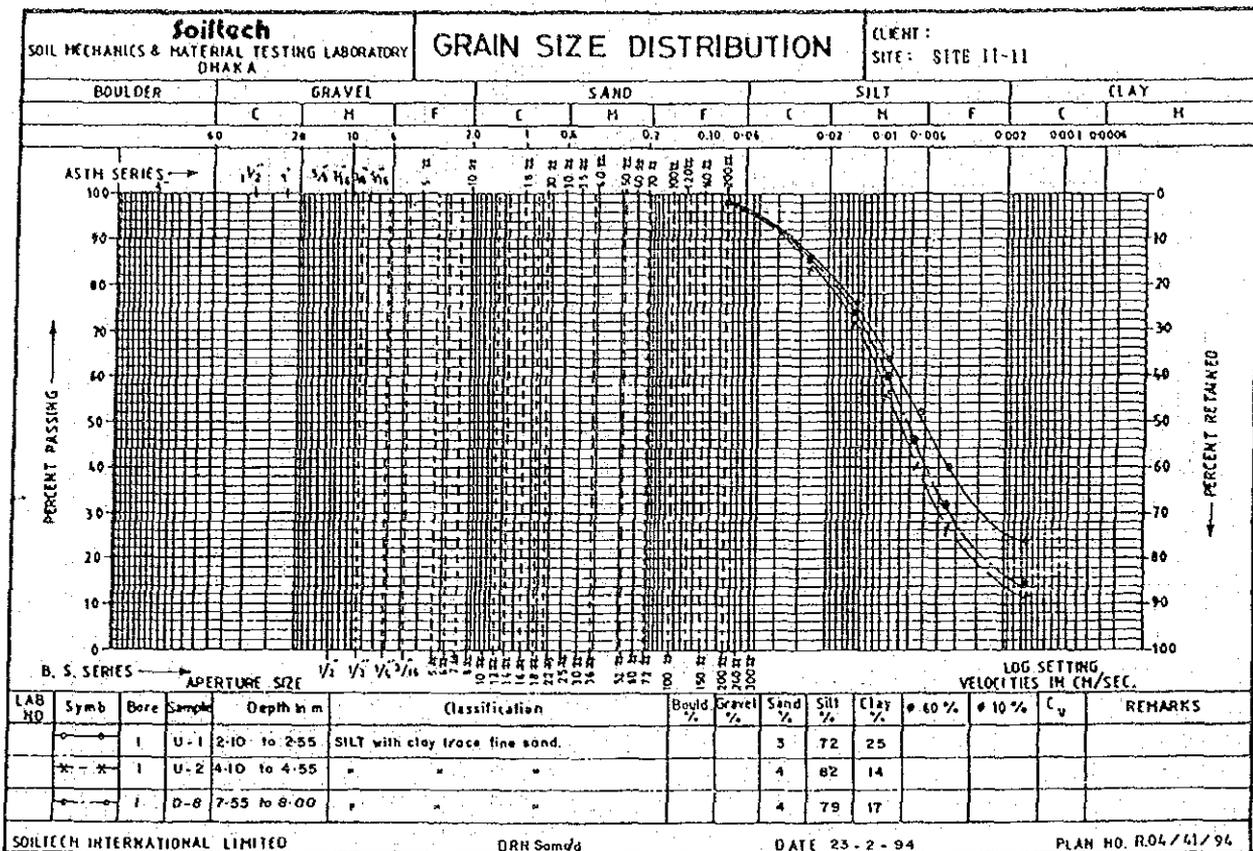


SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3
SITE II-9

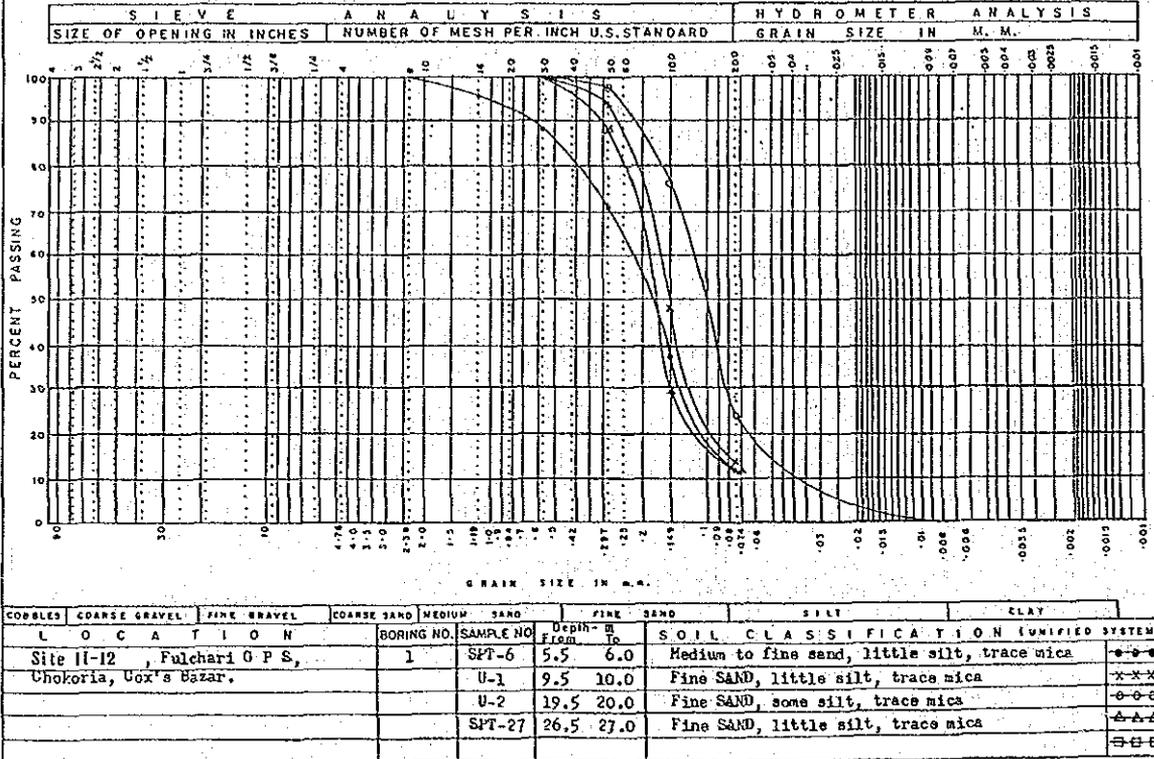






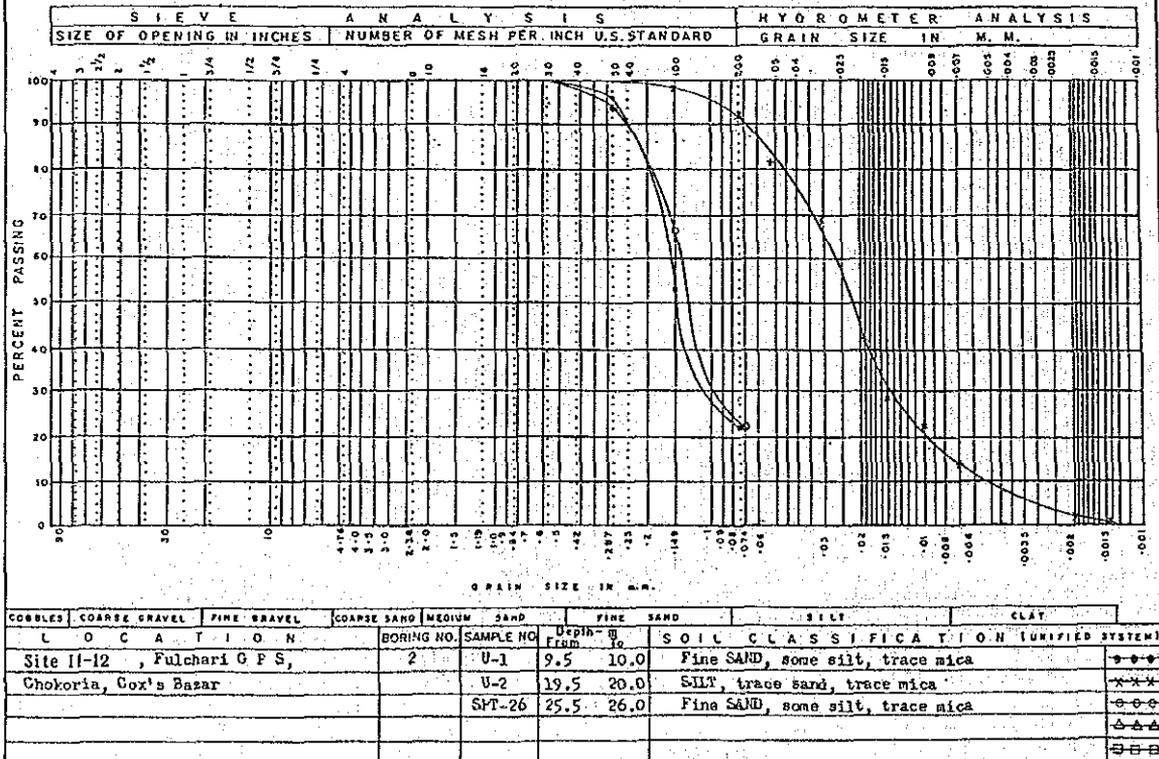
SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

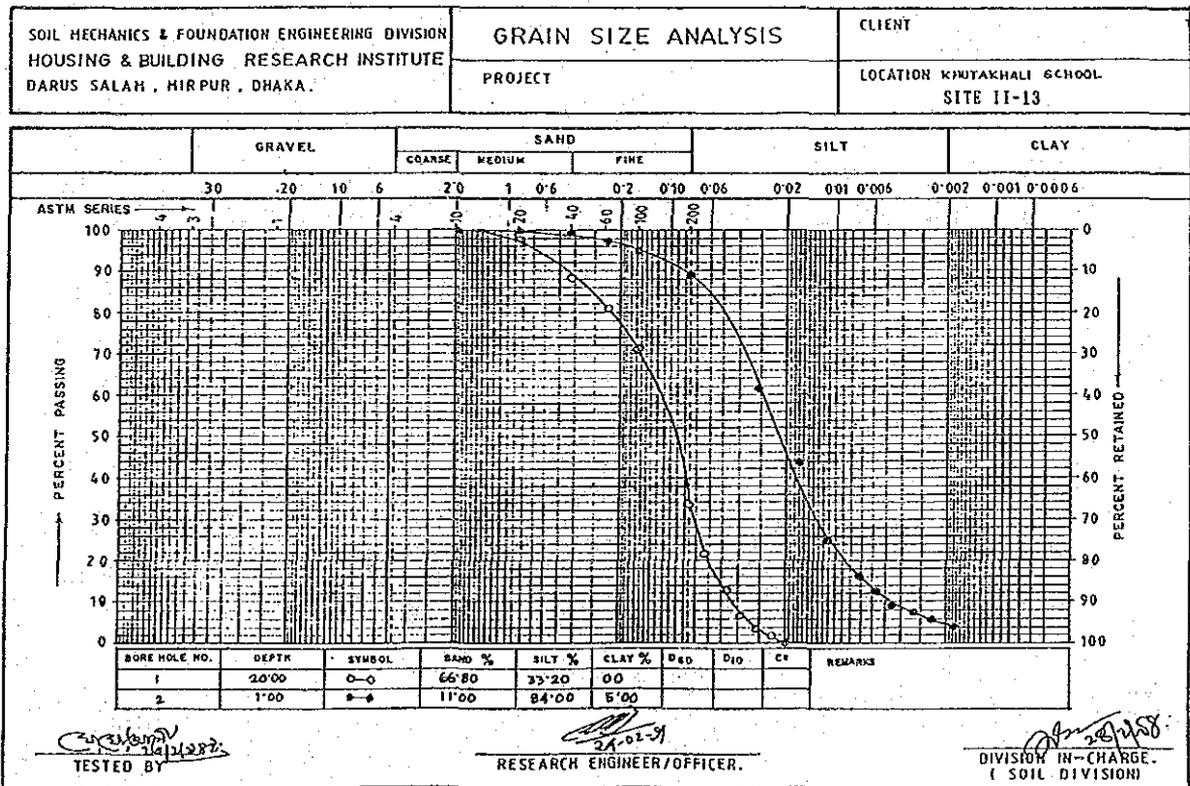
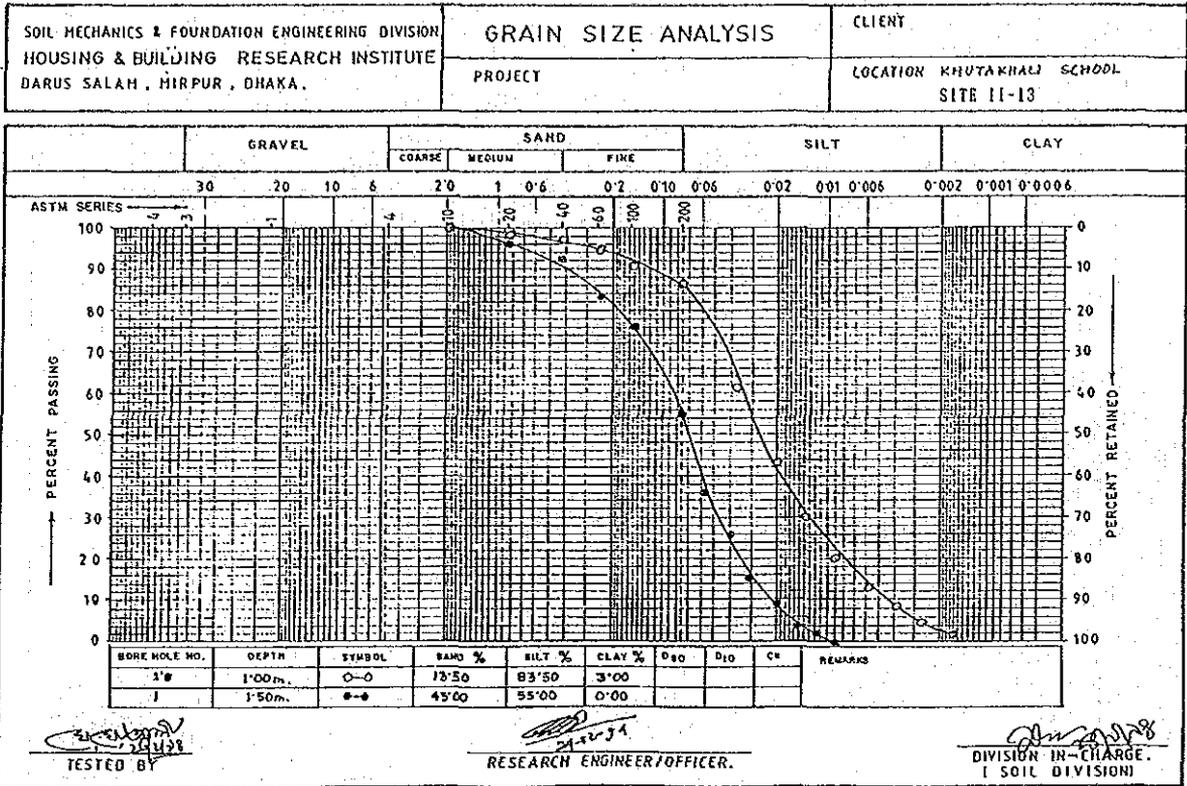
FORM NO. ST-3
SITE II-12



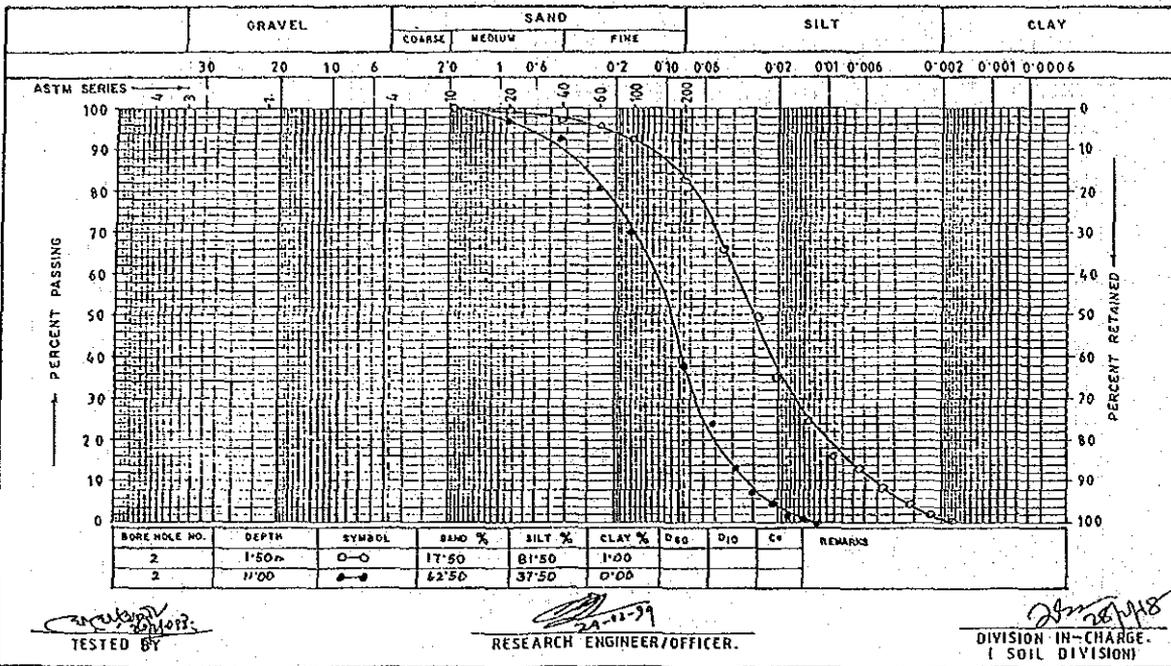
SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

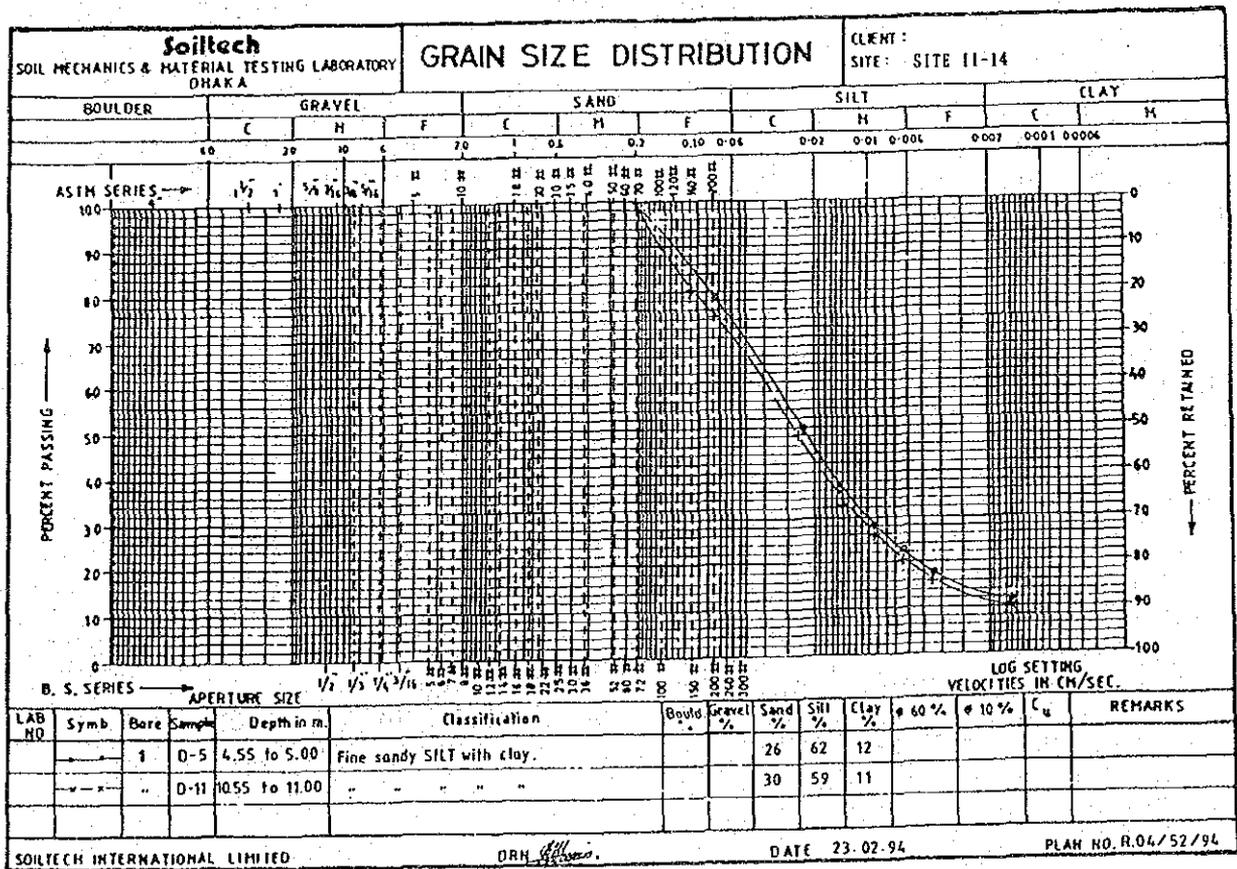
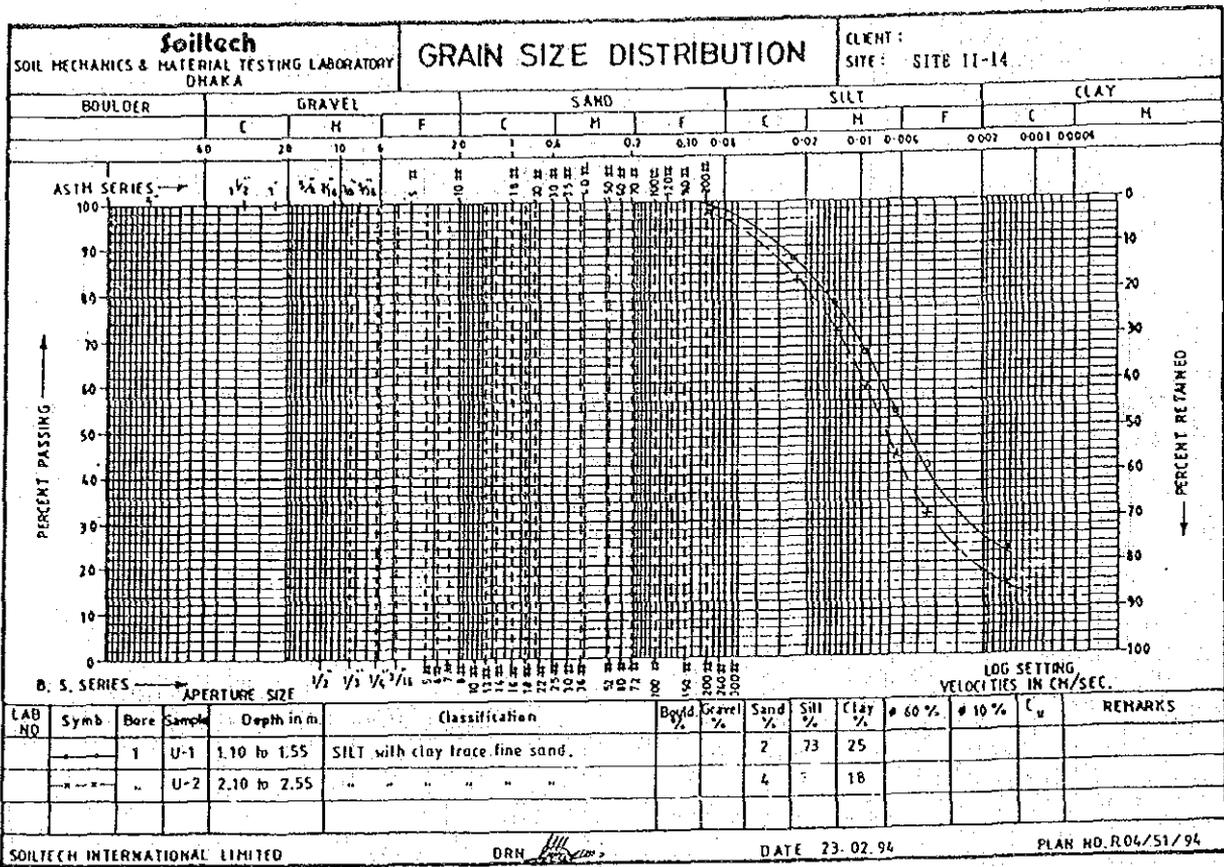
FORM NO. ST-3
SITE II-12



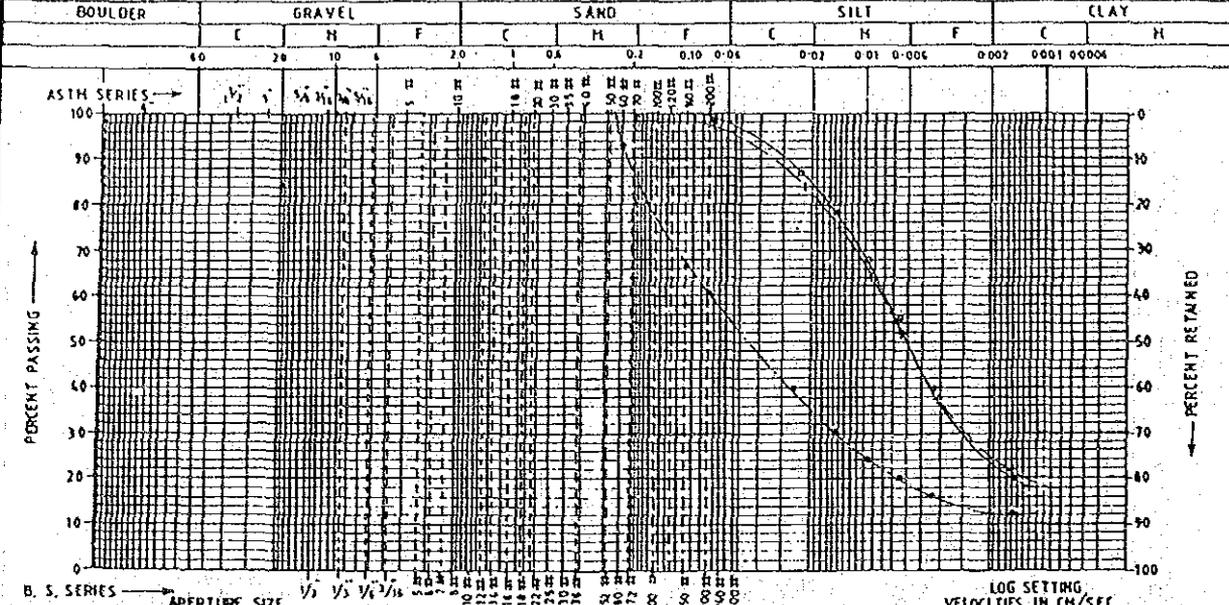


SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION KHUTAKHALI SCHOOL SITE II-13

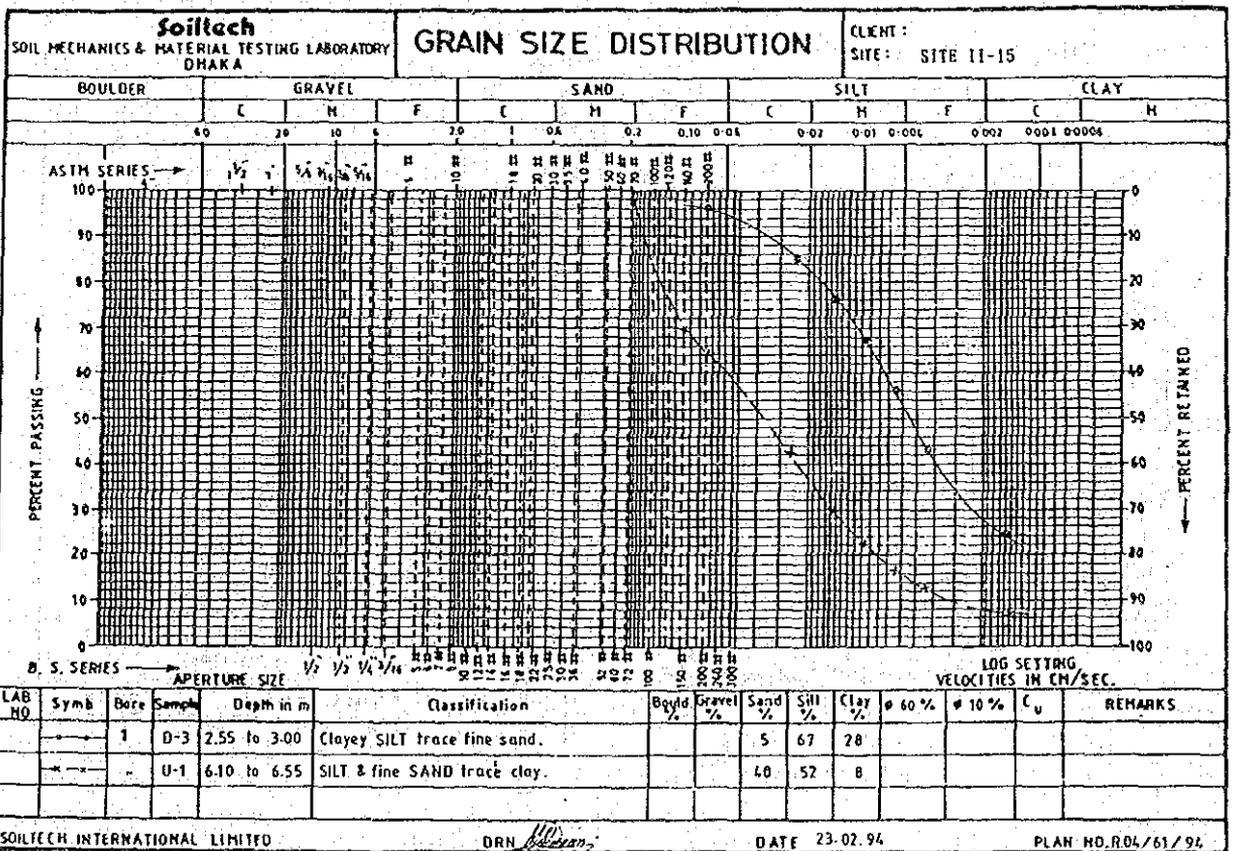
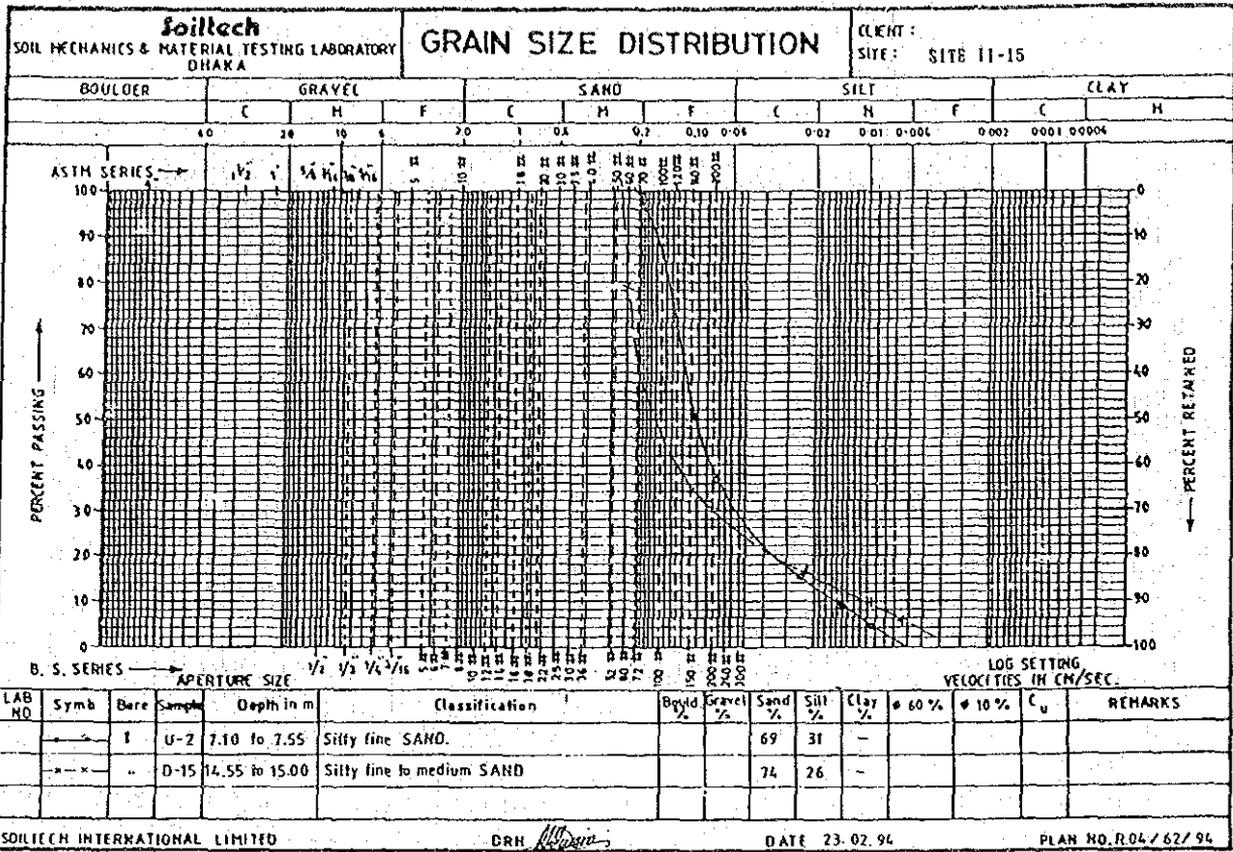


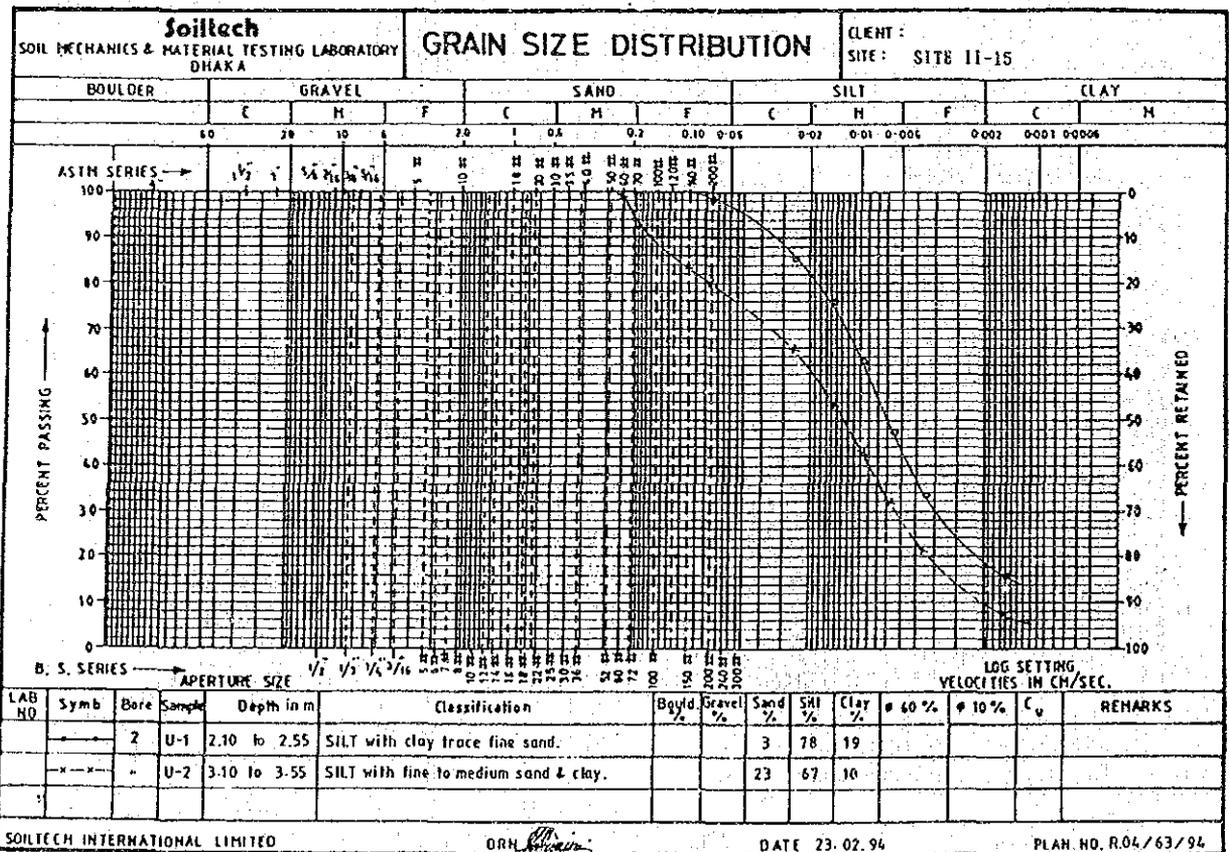
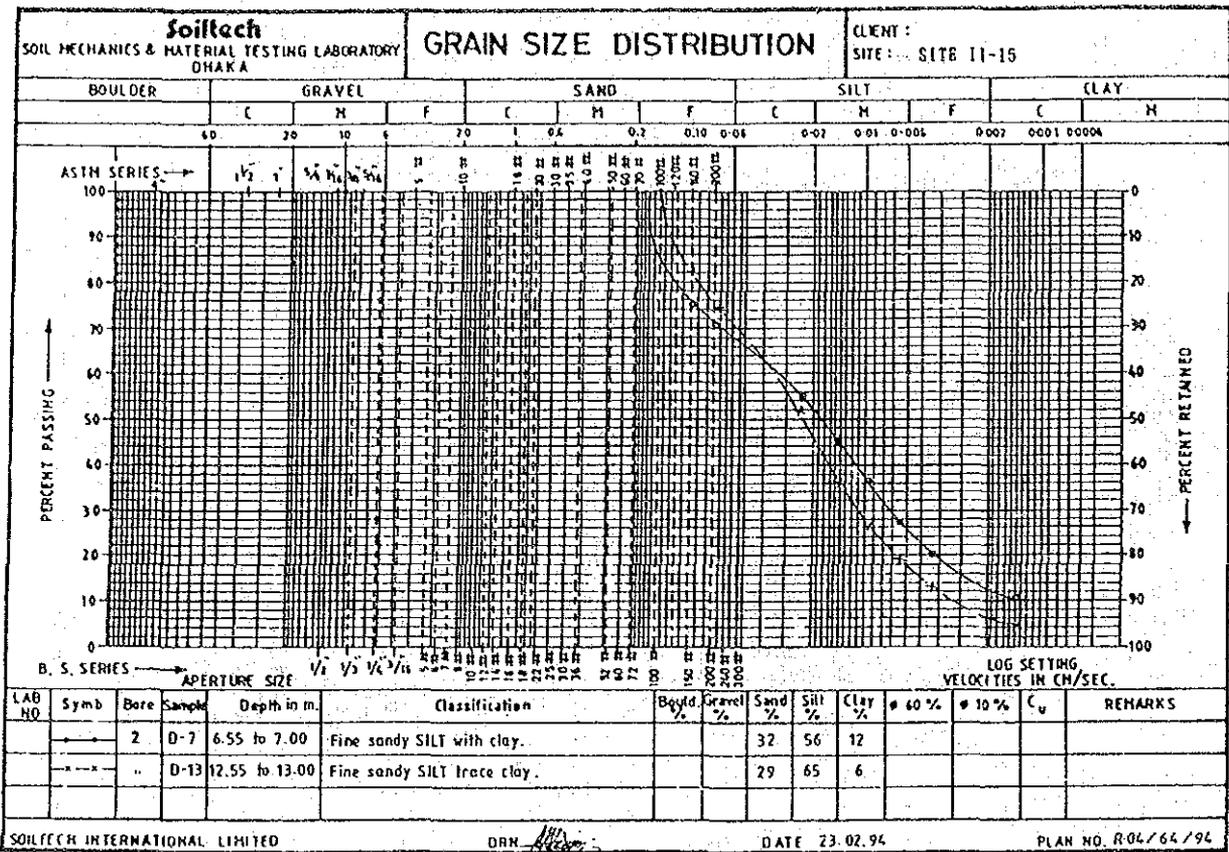


GRAIN SIZE DISTRIBUTION



LAB NO	Symb	Bore	Sample	Depth in m.	Classification	Gravel %	Sand %	Silt %	Clay %	# 60 %	# 10 %	C _u	REMARKS
		2	U-1	1.10 to 1.55	SILT with clay trace fine sand.		2	85	13				
			U-2	2.10 to 2.55	" " " " " "		4	81	15				
			D-B	7.55 to 8.00	Fine to medium SAND & SILT with clay.		44	44	12				

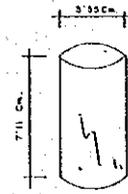
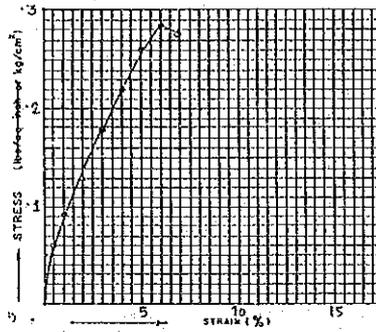




7-2-6 一軸壓縮試驗結果

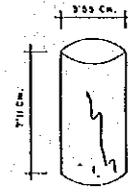
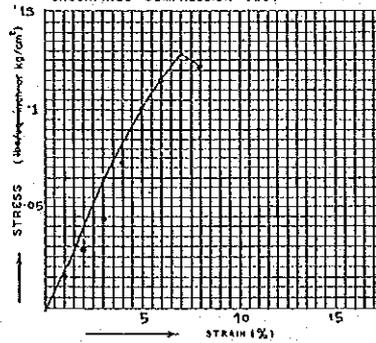
SITE II - 1

UNCONFINED COMPRESSION TEST



FAILURE SKETCH

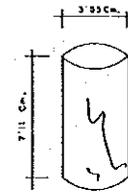
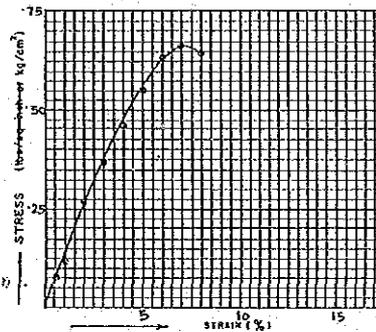
UNCONFINED COMPRESSION TEST



FAILURE SKETCH

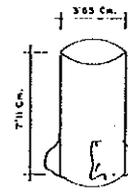
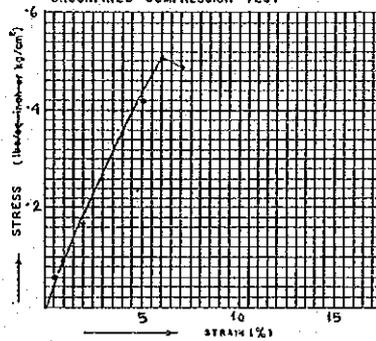
SYMBOL	SH. NO.	SAMPLE	DEPTH FT./M	q_u kg./cm ²	% STRAIN	WEIGHT	DRY WT.	% MOISTURE
0-0	1		1-2	0.184	6	1.60	1.125	42.13
8-0	1		14-15	0.128	7	1.749	1.20	45.29

UNCONFINED COMPRESSION TEST



FAILURE SKETCH

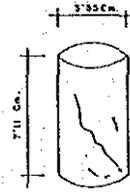
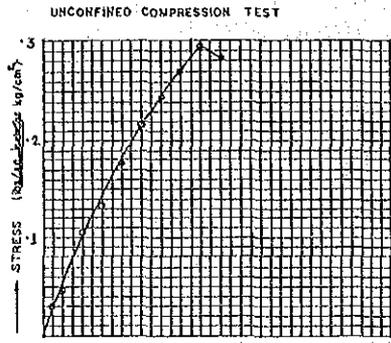
UNCONFINED COMPRESSION TEST



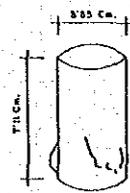
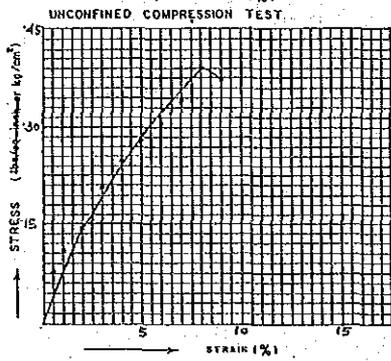
FAILURE SKETCH

SYMBOL	SH. NO.	SAMPLE	DEPTH FT./M	q_u kg./cm ²	% STRAIN	WEIGHT	DRY WT.	% MOISTURE
0-0	2		2	0.668	7	1.78	1.30	36.63
8-0	2		16	0.303	6	1.81	1.243	34.78

SITE II - 2



FAILURE SKETCH

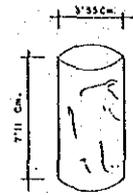
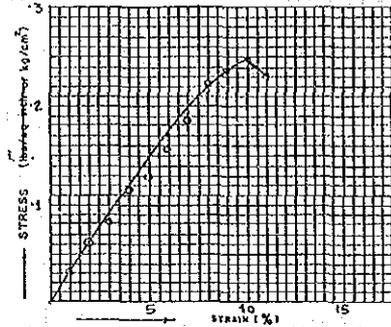


FAILURE SKETCH

SYMBOL	BH. NO.	SAMPLE	DEPTH CM/M	q_u (kg/cm ²)	% STRAIN	(WET) (%)	(DRY) (%)	% MOISTURE
0-0	1	1	1.5m	0.295	8	1.88	1.257	38.54
0-9	2	1	1.5m	0.394	8	1.91	1.414	35.00

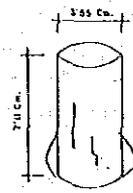
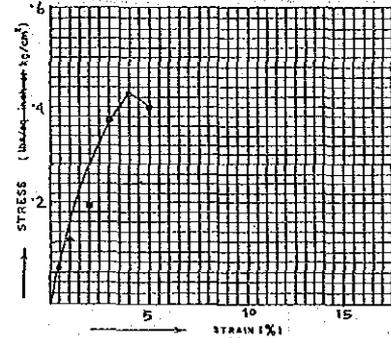
SITE II - 3

UNCONFINED COMPRESSION TEST



FAILURE SKETCH

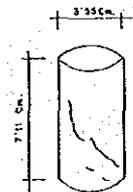
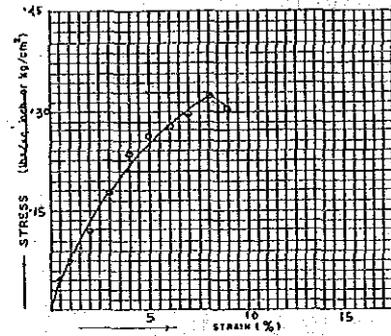
UNCONFINED COMPRESSION TEST



FAILURE SKETCH

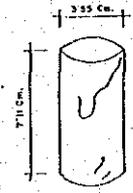
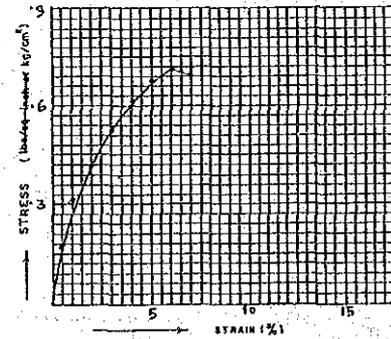
SYMBOL	BN. NO.	SAMPLE	DEPTH FT./M	q_u (lb./sq. in.)	% STRAIN	(WET) (g.)	(DRY) (g.)	% MOISTURE
○—○	1	2	1.50	0.247	10	1.72	1.139	50.93
○—○	1	16	16m	0.425	4	1.79	1.20	48.58

UNCONFINED COMPRESSION TEST



FAILURE SKETCH

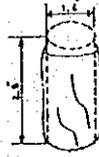
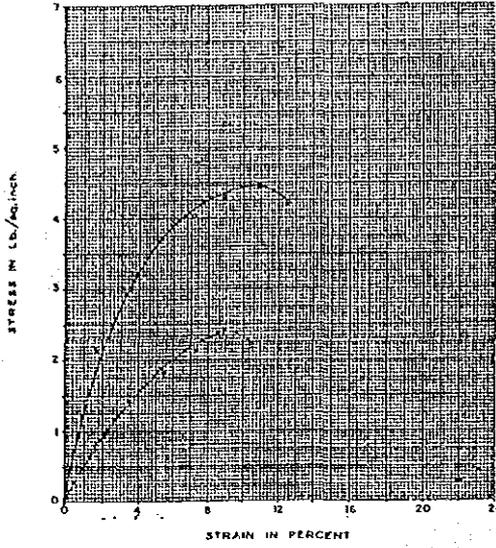
UNCONFINED COMPRESSION TEST



FAILURE SKETCH

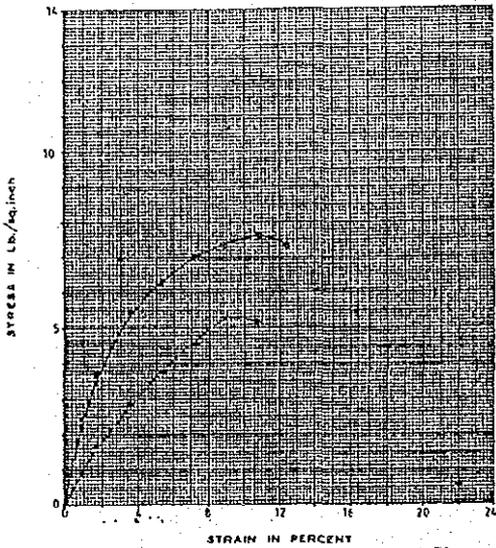
SYMBOL	BN. NO.	SAMPLE	DEPTH FT./M	q_u (lb./sq. in.)	% STRAIN	(WET) (g.)	(DRY) (g.)	% MOISTURE
○—○	2		1.60	0.323	8	1.83	1.27	43.88
○—○	2		18.50	0.704	6	1.83	1.26	41.37

SITE II - 4



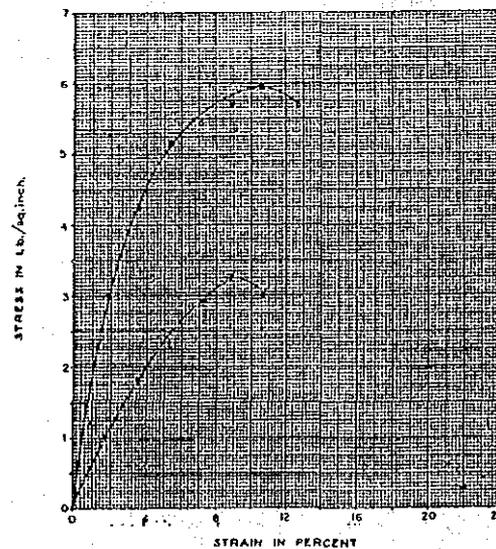
Unconfined compressive strength	0.289	1.411
Percent strain at failure	10.71	
Sensitivity	4.49/2.49 = 1.803	
Moisture Content (%)	40.19	
Dry Density (lb./ft. ³)	82.91	
Classification		

Un-disturbed Sample ———
Remoulded Sample - - - - -



Unconfined compressive strength	0.693	1.411
Percent strain at failure	10.71	
Sensitivity	7.67/5.36 = 1.43	
Moisture Content (%)	37.33	
Dry Density (lb./ft. ³)	86.89	
Classification		

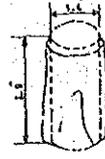
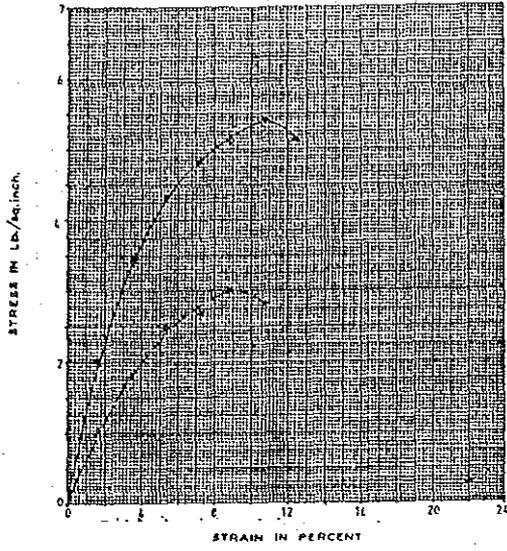
Un-disturbed Sample ———
Remoulded Sample - - - - -



Unconfined compressive strength	0.385	1.411
Percent strain at failure	10.71	
Sensitivity	5.99/2.25 = 2.643	
Moisture Content (%)	49.19	
Dry Density (lb./ft. ³)	73.37	
Classification		

Un-disturbed Sample ———
Remoulded Sample - - - - -

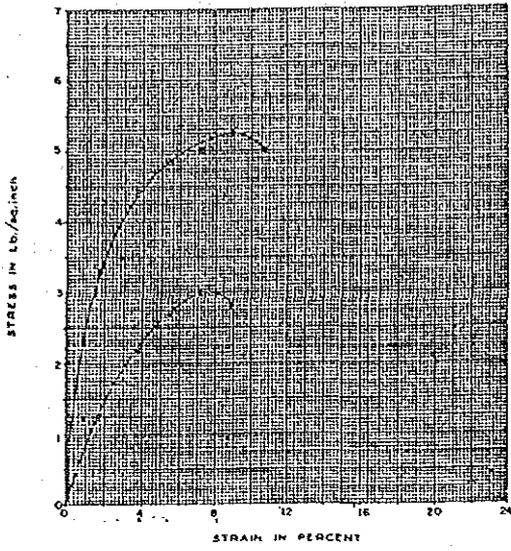
SITE II - 4



Unclassified compressive strength	0.349	0.611
Percent strain at failure	10.71	
Sensitivity	5.43/3.06	1.774
Moisture Content (%)	56.30	
Dry Density (lb./ft. ³)	81.34	
Classification		

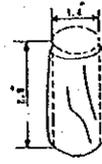
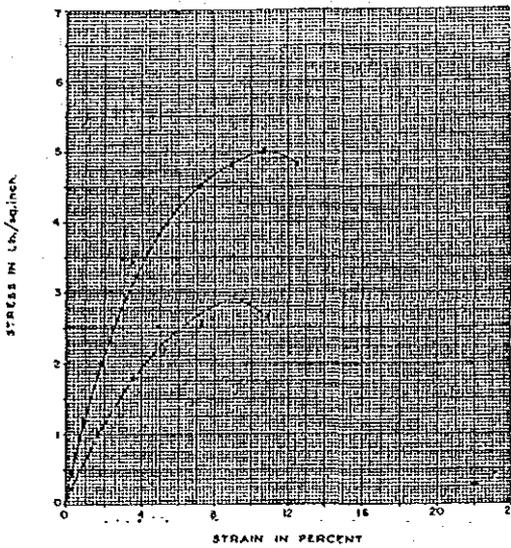
Undisturbed Sample —————
 Remoulded Sample - - - - -

SITE II - 5



Unclassified compressive strength	0.349	1.461
Percent strain at failure	8.92	
Sensitivity	2.36/3.06 = 1.751	
Moisture Content (%)	41.89	
Dry Density (lb./cu. ft.)	78.49	
Classification		

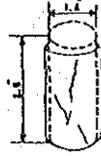
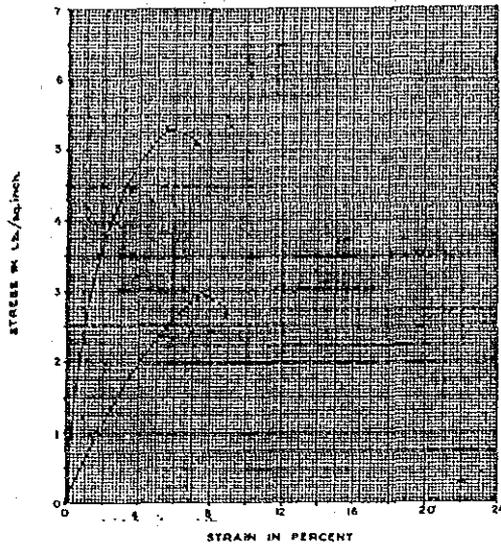
Un-disturbed sample —————
 Remoulded sample - - - - -



Unclassified compressive strength	0.325	1.461
Percent strain at failure	10.71	
Sensitivity	3.09/2.87 = 1.759	
Moisture Content (%)	34.28	
Dry Density (lb./cu. ft.)	88.89	
Classification		

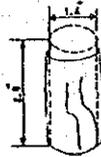
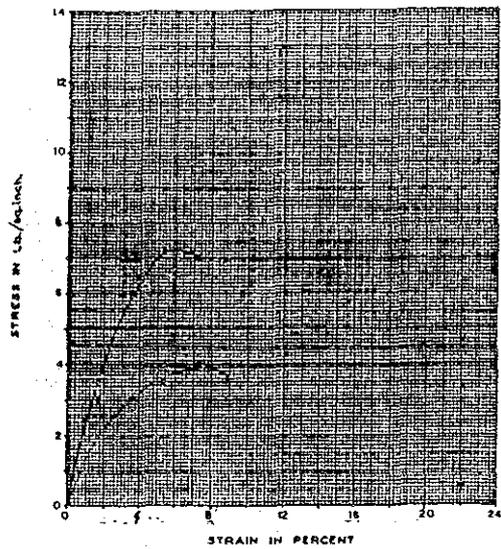
Un-disturbed sample —————
 Remoulded sample - - - - -

SITE II - 6



Unconfined compressive strength	0.545	LB/IN ²
Percent strain at failure	3.35	
Smoothness	5.36/2.92	1.85
Moisture Content (%)	23.28	
Dry Density (lb./cu. ft.)	96.79	
Classification		

Undisturbed Sample ———
Remoulded Sample - - - - -

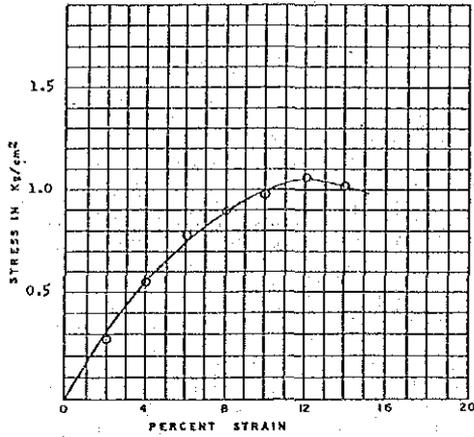


Unconfined compressive strength	0.473	LB/IN ²
Percent strain at failure	3.35	
Smoothness	7.35/3.90	1.88
Moisture Content (%)	22.17	
Dry Density (lb./cu. ft.)	97.66	
Classification		

Undisturbed Sample ———
Remoulded Sample - - - - -

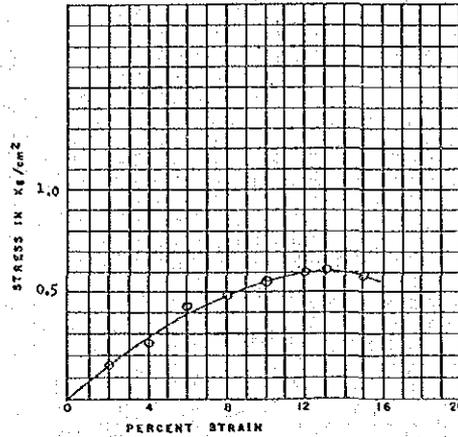
SITE II - 7

Bore Hole No. 1 Sample No. U-1 Depth 9.5 to 10.0m



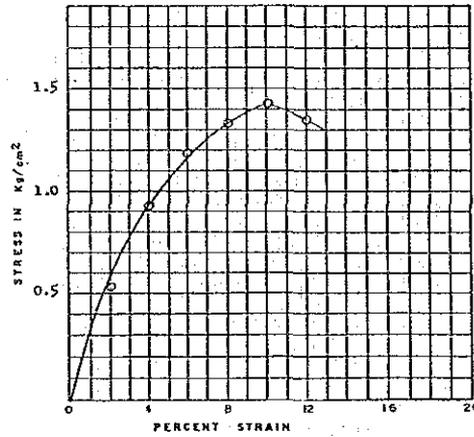
Unconfined compressive strength (Kg/cm ²)	1.068
Percent strain at failure	12
Moisture content (%)	28.6
Dry density (gm/cc)	1.525

Bore Hole No. 1 Sample No. U-2 Depth 19.5 to 20.0m



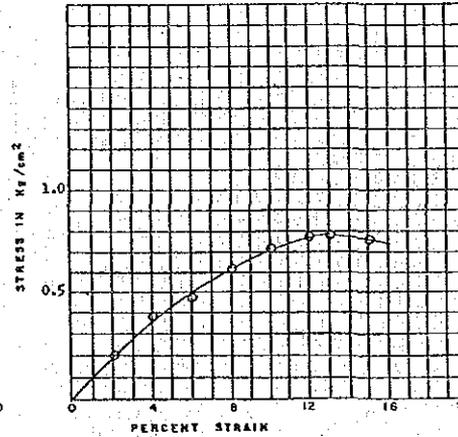
Unconfined compressive strength (Kg/cm ²)	0.605
Percent strain at failure	13
Moisture content (%)	29.9
Dry density (gm/cc)	1.67

Bore Hole No. 1 Sample No. U-3 Depth 29.0 to 29.5m



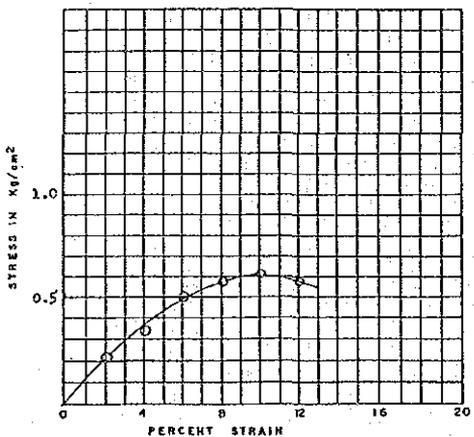
Unconfined compressive strength (Kg/cm ²)	1.412
Percent strain at failure	10
Moisture content (%)	23.1
Dry density (gm/cc)	1.560

Bore Hole No. 2 Sample No. U-1 Depth 9.5 to 10.0m



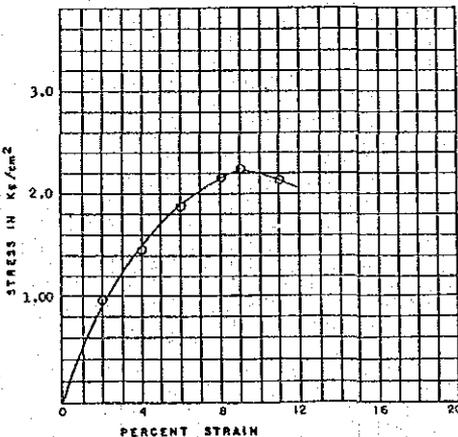
Unconfined compressive strength (Kg/cm ²)	0.7905
Percent strain at failure	13
Moisture content (%)	30.1
Dry density (gm/cc)	1.679

Bore Hole No. 2 Sample No. U-2 Depth 19.5 to 20.0m



Unconfined compressive strength (Kg/cm ²)	0.617
Percent strain at failure	10
Moisture content (%)	36.2
Dry density (gm/cc)	1.394

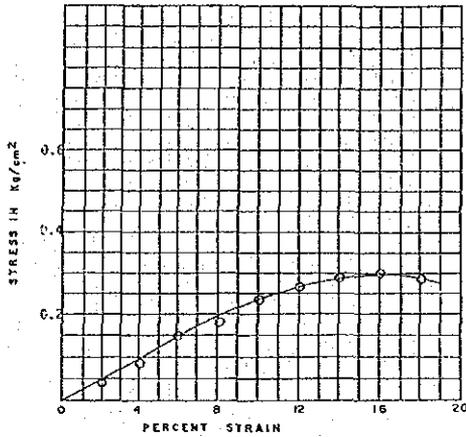
Bore Hole No. 2 Sample No. U-3 Depth 29.0 to 29.5m



Unconfined compressive strength (Kg/cm ²)	2.213
Percent strain at failure	9
Moisture content (%)	22.3
Dry density (gm/cc)	1.635

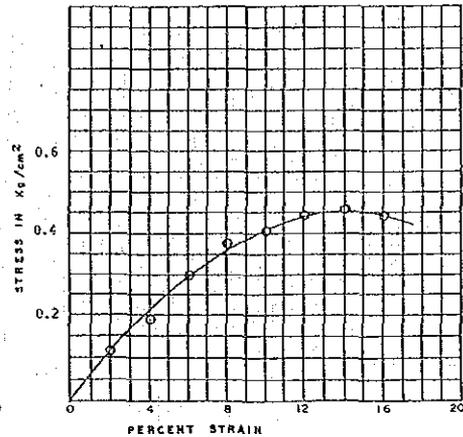
SITE II - 8

Bore Hole No. 1 Sample No. U-1 Depth 9.5 to 10m



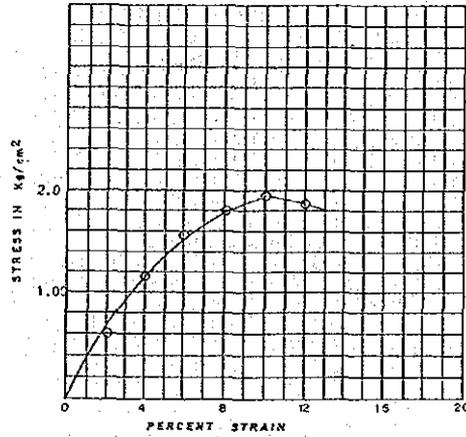
Unconfined compressive strength (Kg/cm²) - 0.2998
 Percent strain at failure 16
 Moisture content (%) 36.1
 Dry density (gm/cc) 1.275

Bore Hole No. 1 Sample No. U-2 Depth 19.5 to 20m



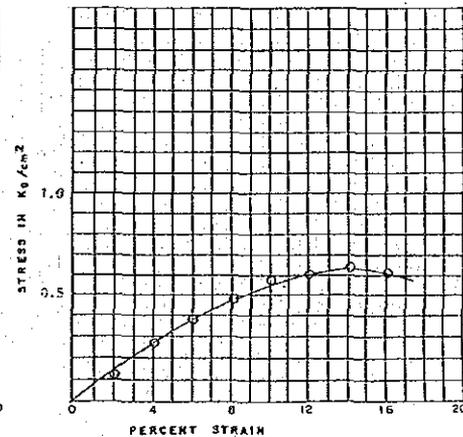
Unconfined compressive strength (Kg/cm²) - 0.4584
 Percent strain at failure 14
 Moisture content (%) 32.3
 Dry density (gm/cc) 1.413

Bore Hole No. 1 Sample No. U-3 Depth 29.0 to 29.5m



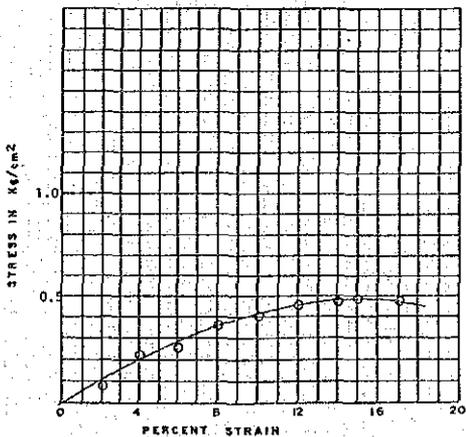
Unconfined compressive strength (Kg/cm²) - 1.967
 Percent strain at failure 10
 Moisture content (%) 24.2
 Dry density (gm/cc) 1.634

Bore Hole No. 2 Sample No. U-1 Depth 9.5 to 10m



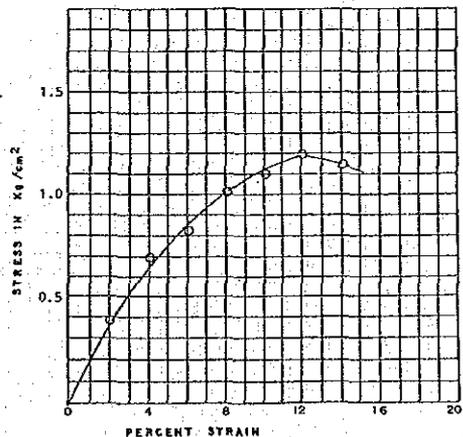
Unconfined compressive strength (Kg/cm²) - 0.6427
 Percent strain at failure 14
 Moisture content (%) 29.7
 Dry density (gm/cc) 1.421

Bore Hole No. 2 Sample No. U-2 Depth 19.5 to 20m



Unconfined compressive strength (Kg/cm²) - 0.4911
 Percent strain at failure 15
 Moisture content (%) 30.2
 Dry density (gm/cc) 1.425

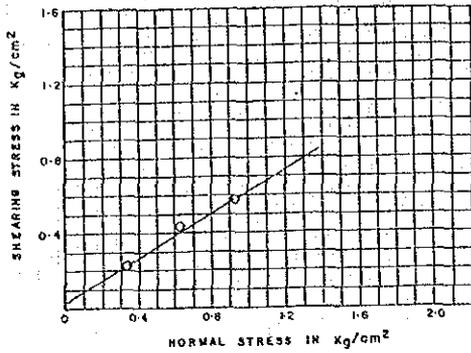
Bore Hole No. 2 Sample No. U-3 Depth 29.0 to 29.5m



Unconfined compressive strength (Kg/cm²) - 1.1932
 Percent strain at failure 12
 Moisture content (%) 24.2
 Dry density (gm/cc) 1.606

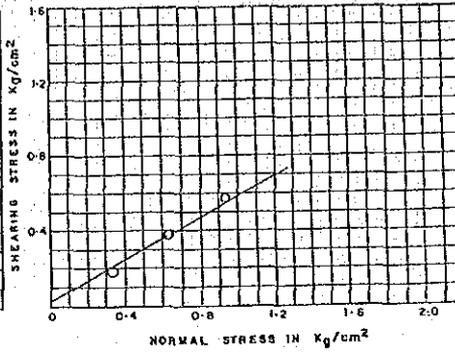
SITE II - 9

Bore Hole No. 1 Sample No. U-1 Depth 9.5m to 10m



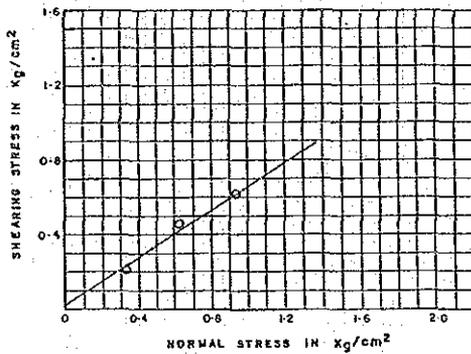
SHEARING ANGLE (degree)	30.5
COHESION (Kg/cm²)	0.03

Bore Hole No. 1 Sample No. SPI-170 Depth 16.5m to 17m



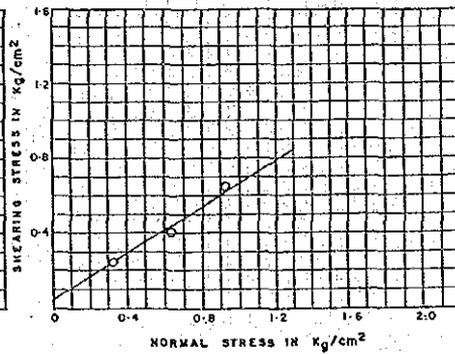
SHEARING ANGLE (degree)	29.5
COHESION (Kg/cm²)	0.035

Bore Hole No. 1 Sample No. U-2 Depth 19.5m to 20m



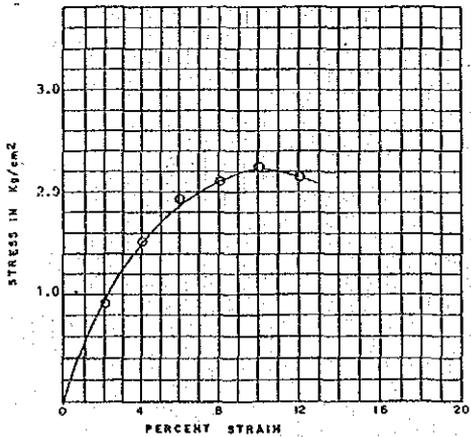
SHEARING ANGLE (degree)	32.5
COHESION (Kg/cm²)	0.02

Bore Hole No. 2 Sample No. U-1 Depth 9.5m to 10m



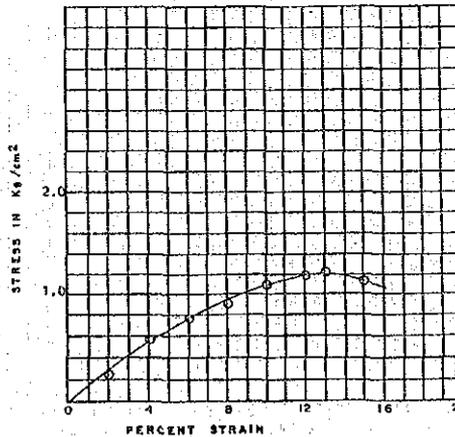
SHEARING ANGLE (degree)	32
COHESION (Kg/cm²)	0.05

Bore Hole No. 1 Sample No. U-3 Depth 28.5 to 29.0m



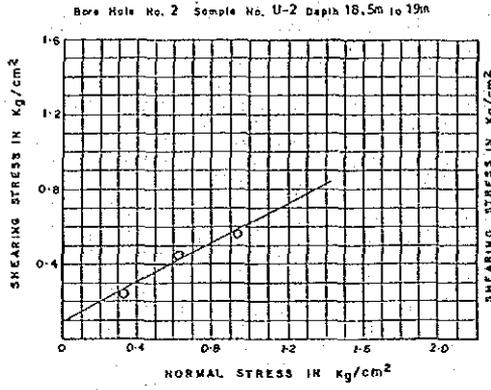
Unconfined compressive strength (Kg/cm²)	2.2220
Percent strain at failure	10
Moisture content (%)	22.7
Dry density (gm/cc)	1.643

Bore Hole No. 2 Sample No. U-3 Depth 28.5 to 29.0m

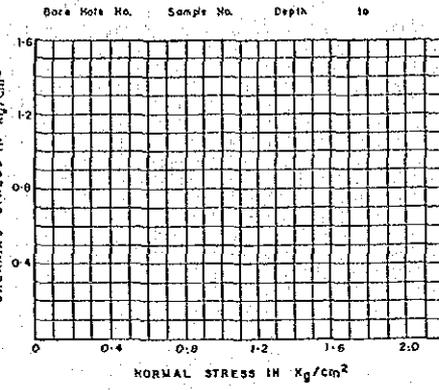


Unconfined compressive strength (Kg/cm²)	1.213
Percent strain at failure	13
Moisture content (%)	24.26
Dry density (gm/cc)	1.586

SITE II - 9

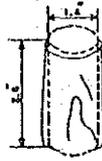
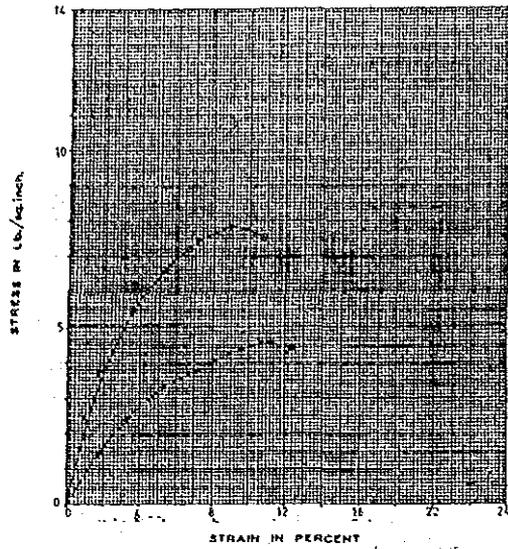


SHEARING ANGLE (degree)	29
COHESION (Kg/cm ²)	0.100



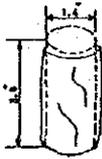
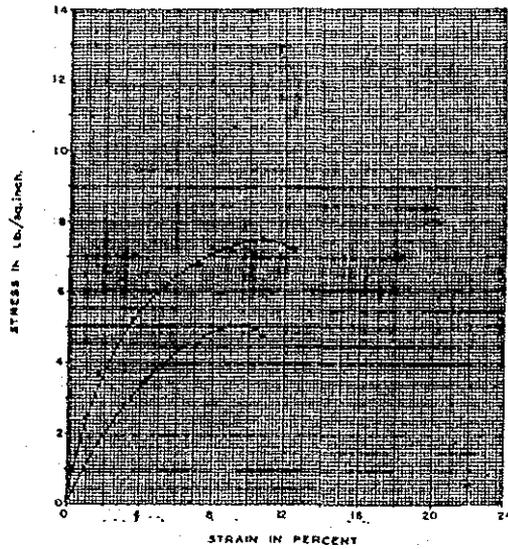
SHEARING ANGLE (degree)	
COHESION (Kg/cm ²)	

SITE II - 10



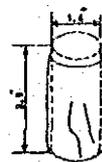
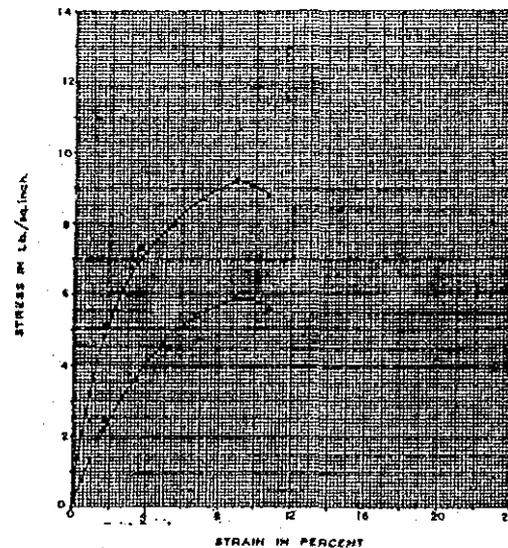
Unconfined compressive strength	0.506	1.671
Percent Strain at failure	8.92	
Sensitivity	7.86 / 4.68 = 1.679	
Moisture Content (%)	35.30	
Dry Density (lb./ft ³)	81.19	
Classification		

Un-disturbed Sample ———
Remoulded Sample - - - - -



Unconfined compressive strength	0.482	1.471
Percent Strain at failure	10.71	
Sensitivity	7.49 / 5.17 = 1.448	
Moisture Content (%)	38.20	
Dry Density (lb./ft ³)	85.04	
Classification		

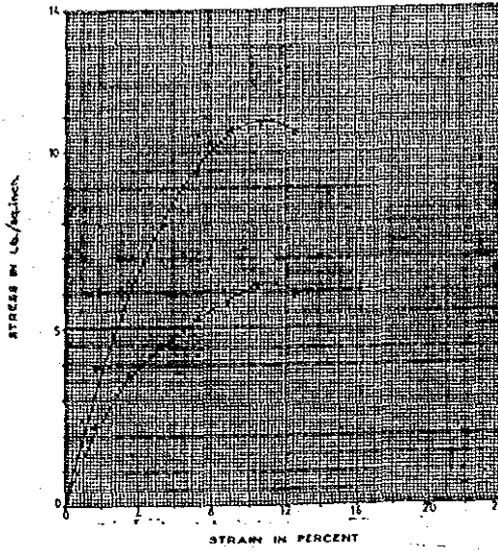
Un-disturbed Sample ———
Remoulded Sample - - - - -



Unconfined compressive strength	0.882	1.671
Percent Strain at failure	8.92	
Sensitivity	9.10 / 5.43 = 1.674	
Moisture Content (%)	36.27	
Dry Density (lb./ft ³)	87.25	
Classification		

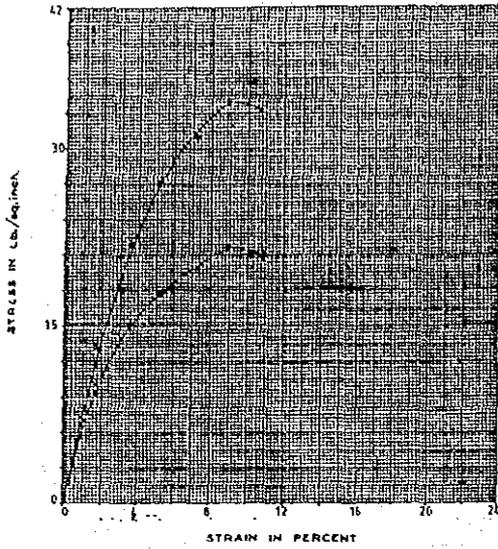
Un-disturbed Sample ———
Remoulded Sample - - - - -

SITE II - 10



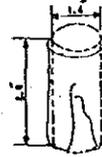
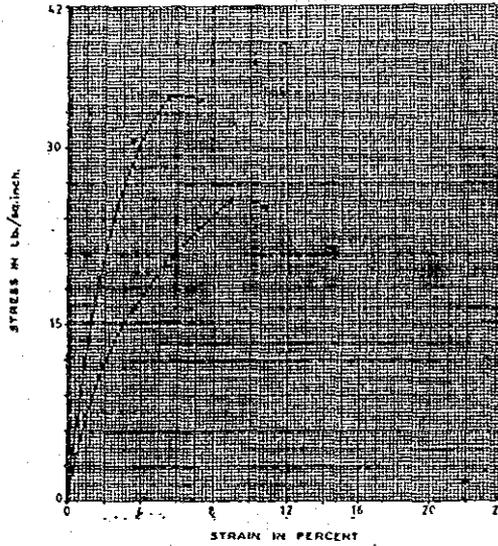
Unconfined compressive strength	0.699 Lb./sq. in.
Percent Strain at failure	19.71
Specific Gravity	10.46 / 6.38 = 1.637
Moisture Content (%)	37.43
Dry Density (lb./cu. ft.)	8.619
Classification	

Undisturbed Sample —————
 Remoulded Sample - - - - -



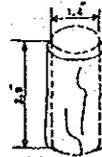
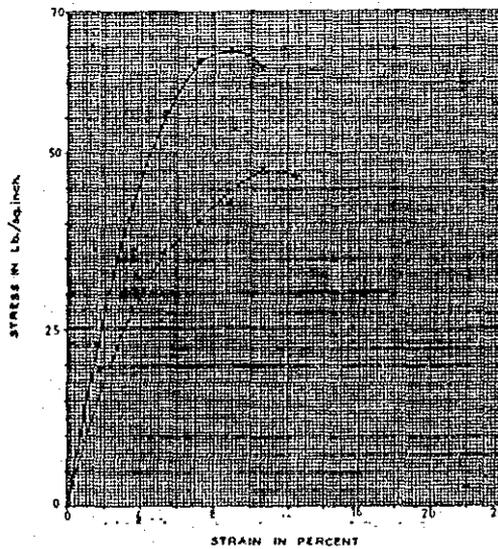
Unconfined compressive strength	2,192	lb./ft ²
Percent strain at failure	8.92	
Sensitivity	35.32 / 20.66 = 1.705	
Moisture Content (%)	26.98	
Dry Density (lb./ft ³)	100.24	
Classification		

Un-disturbed Sample —————
Remoulded Sample - - - - -



Unconfined compressive strength	2,239	lb./ft ²
Percent strain at failure	5.35	
Sensitivity	34.78 / 25.88 = 1.343	
Moisture Content (%)	24.66	
Dry Density (lb./ft ³)	102.98	
Classification		

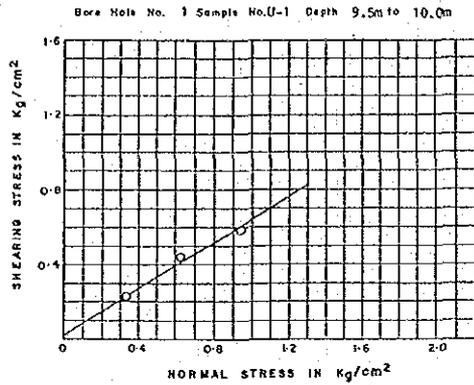
Un-disturbed Sample —————
Remoulded Sample - - - - -



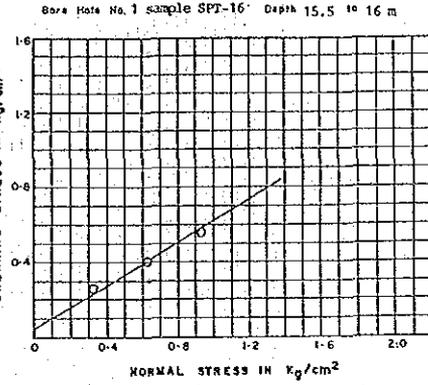
Unconfined compressive strength	5,135	lb./ft ²
Percent strain at failure	8.92	
Sensitivity	64.22 / 58.32 = 1.101	
Moisture Content (%)	22.58	
Dry Density (lb./ft ³)	95.03	
Classification		

Un-disturbed Sample —————
Remoulded Sample - - - - -

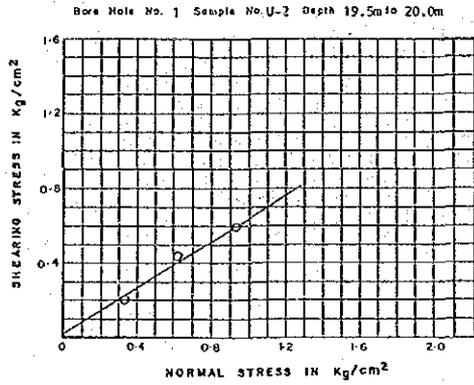
SITE II - 12



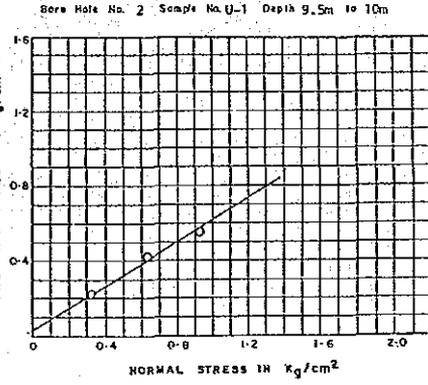
SHEARING ANGLE (degree)	32
COHESION (Kg/cm ²)	0.020



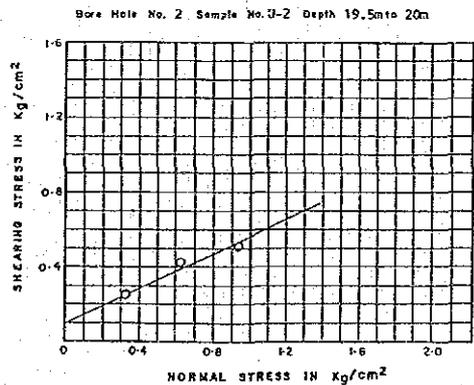
SHEARING ANGLE (degree)	31.5
COHESION (Kg/cm ²)	0.050



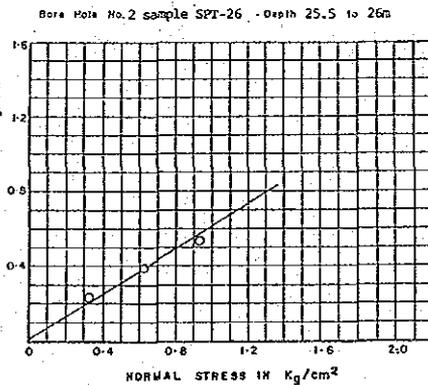
SHEARING ANGLE (degree)	32
COHESION (Kg/cm ²)	0.015



SHEARING ANGLE (degree)	31
COHESION (Kg/cm ²)	0.040

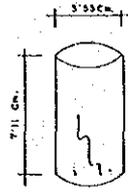
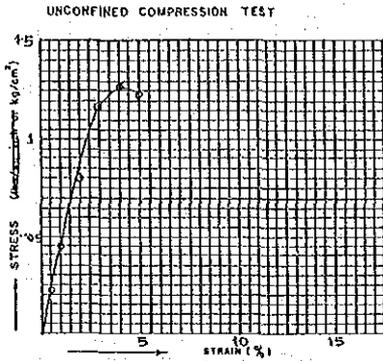


SHEARING ANGLE (degree)	25
COHESION (Kg/cm ²)	0.10

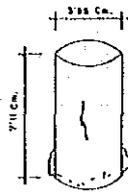
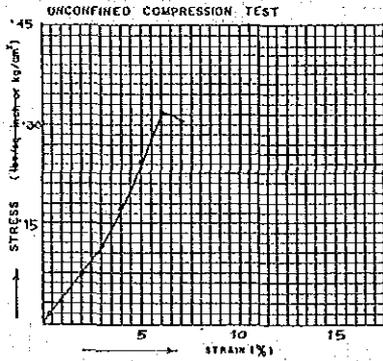


SHEARING ANGLE (degree)	31.5
COHESION (Kg/cm ²)	0.020

SITE II - 13

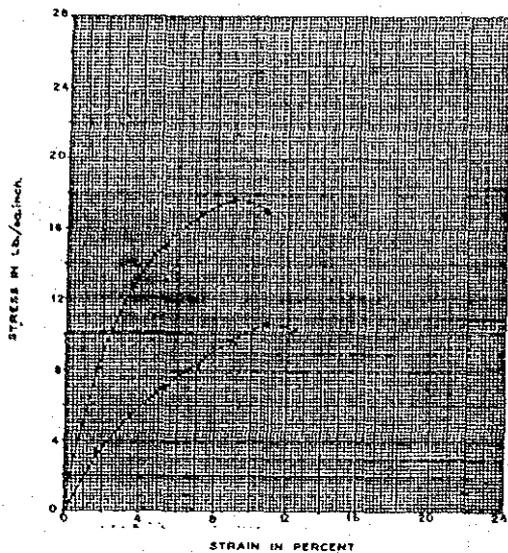


FAILURE SKETCH



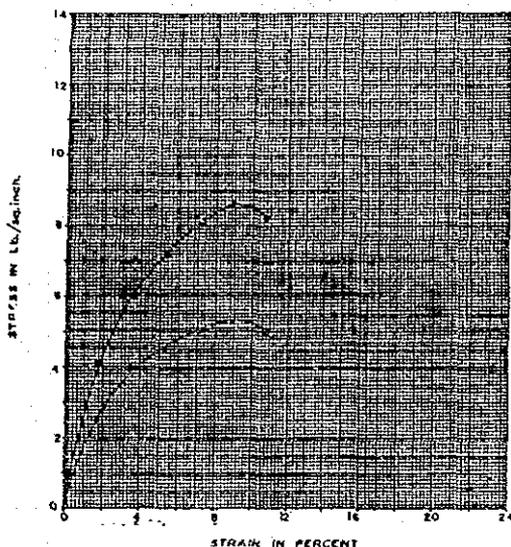
FAILURE SKETCH

SYMBOL	BN. NO.	SAMPLE	DEPTH FT/M	γ_w (%)	% STRAIN	f'_{cu} (kg/cm ²)	f'_{cu} (kg/cm ²)	% MOISTURE
○—○	1	2	1m-2m	0.132	9	1.87	1.52	22.36
●—●	2	2	1.5m-2m	0.316	6	1.86	1.43	30.09



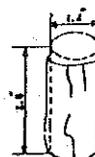
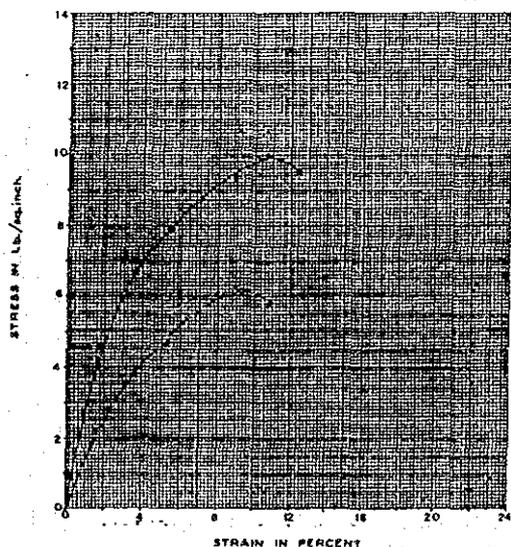
Unclassified compressive strength	1.155 Lbf
Percent Strain at failure	8.92
Smoothly	17.83/10.87:1.652
Moisture Content (%)	36.85
Dry Density (lb./ft ³)	84.42
Classification	

Un-disturbed Sample _____
Remoulded Sample - - - - -



Unclassified compressive strength	0.555 Lbf
Percent Strain at failure	8.92
Smoothly	8.52/3.34:1.508
Moisture Content (%)	35.28
Dry Density (lb./ft ³)	85.92
Classification	

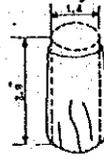
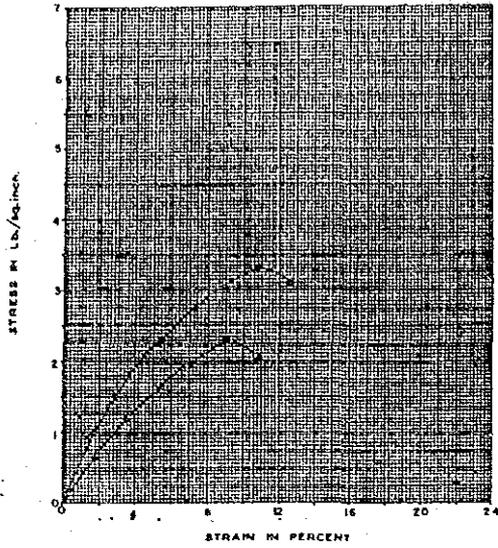
Un-disturbed Sample _____
Remoulded Sample - - - - -



Unclassified compressive strength	0.638 Lbf
Percent Strain at failure	10.71
Smoothly	9.92/6.15:1.81
Moisture Content (%)	38.90
Dry Density (lb./ft ³)	85.27
Classification	

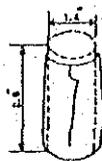
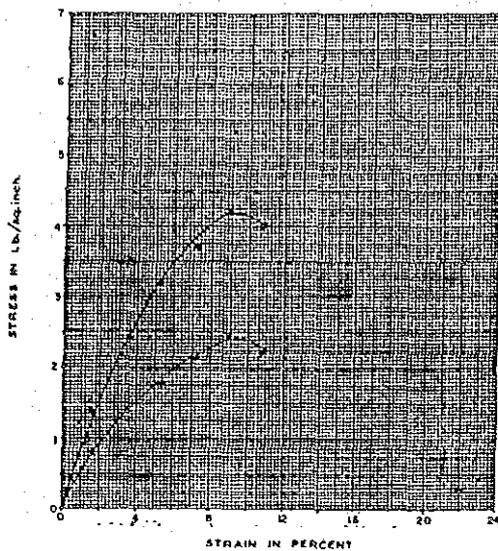
Un-disturbed Sample _____
Remoulded Sample - - - - -

SITE II - 14



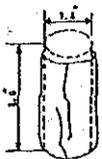
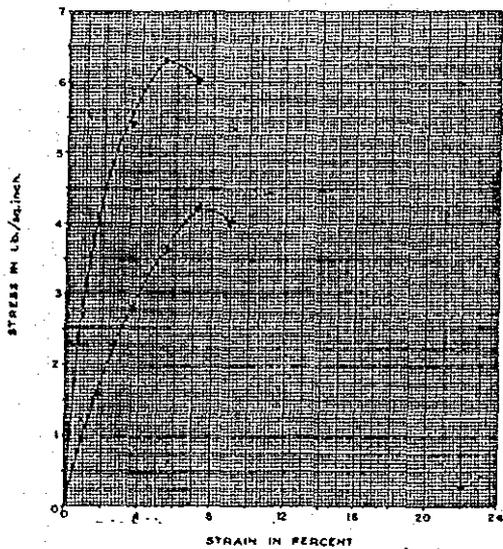
Unconfined compressive strength	0.217
Percent Strain at failure	10.73
Specific Gravity	2.572-90+1.485
Moisture Content (%)	42.47
Dry Density (Mg/m ³)	81.58
Classification	

Un-disturbed Sample _____
 Remoulded Sample - - - - -



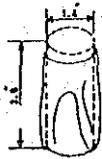
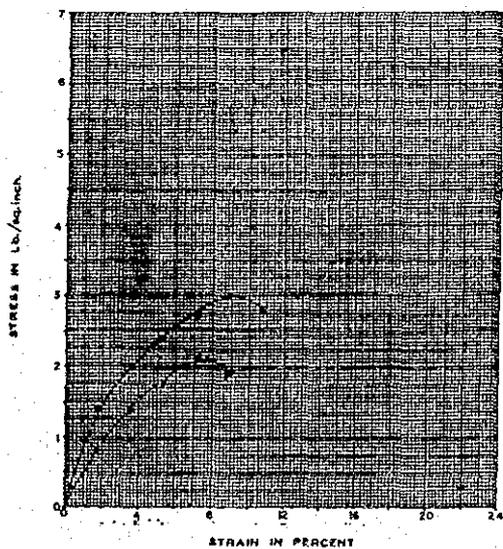
Unconfined compressive strength	0.221 Lbf
Percent strain at failure	8.92
Sensitivity	4.21/2.49 = 1.69
Moisture Content (%)	37.73
Dry Density (lb./cu. ft.)	81.06
Classification	

Un-disturbed Sample _____
Remoulded Sample - - - - -



Unconfined compressive strength	0.102 Lbf
Percent strain at failure	5.35
Sensitivity	6.56/4.28 = 1.53
Moisture Content (%)	32.48
Dry Density (lb./cu. ft.)	87.07
Classification	

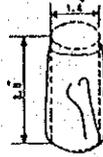
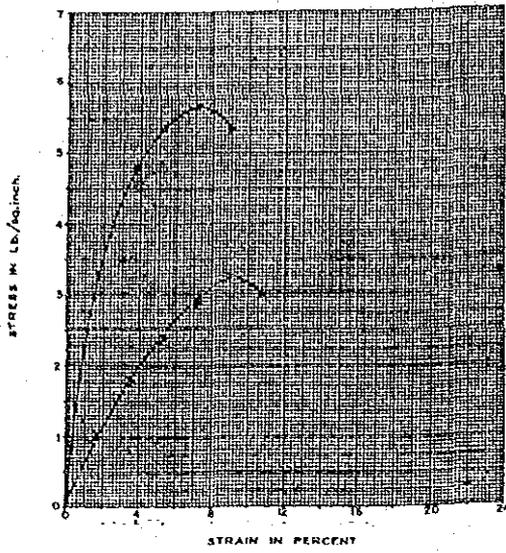
Un-disturbed Sample _____
Remoulded Sample - - - - -



Unconfined compressive strength	0.197 Lbf
Percent strain at failure	8.92
Sensitivity	3.06/2.16 = 1.42
Moisture Content (%)	44.10
Dry Density (lb./cu. ft.)	76.02
Classification	

Un-disturbed Sample _____
Remoulded Sample - - - - -

SITE II - 15



Unclassified compressive strength	0.363 Lb/in
Percent strain at failure	7.18
Swellability	5.65/3.25 = 1.738
Moisture Content (%)	37.52
Dry Density (lb/ft ³)	61.31
Classification	

Un-disturbed Sample ———
 Remoulded Sample - - - - -

JICA