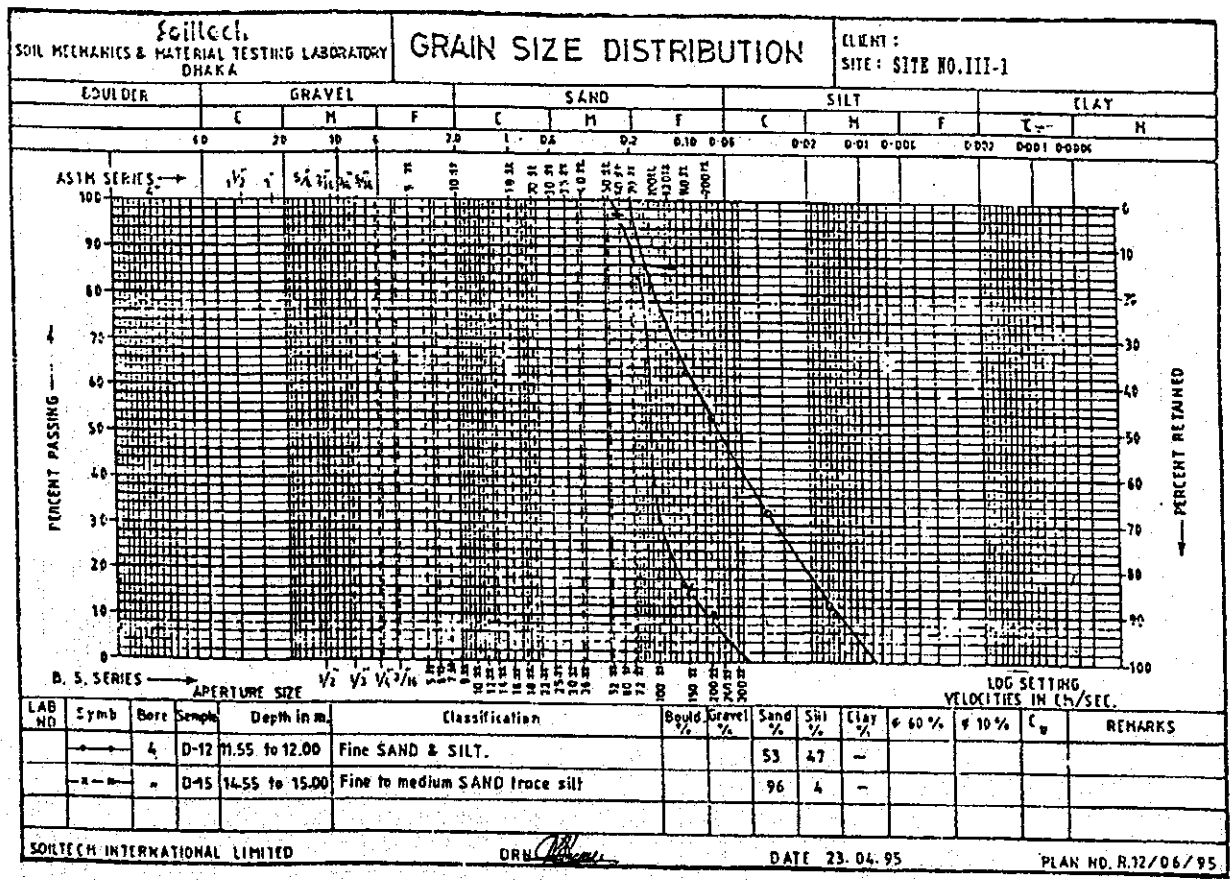
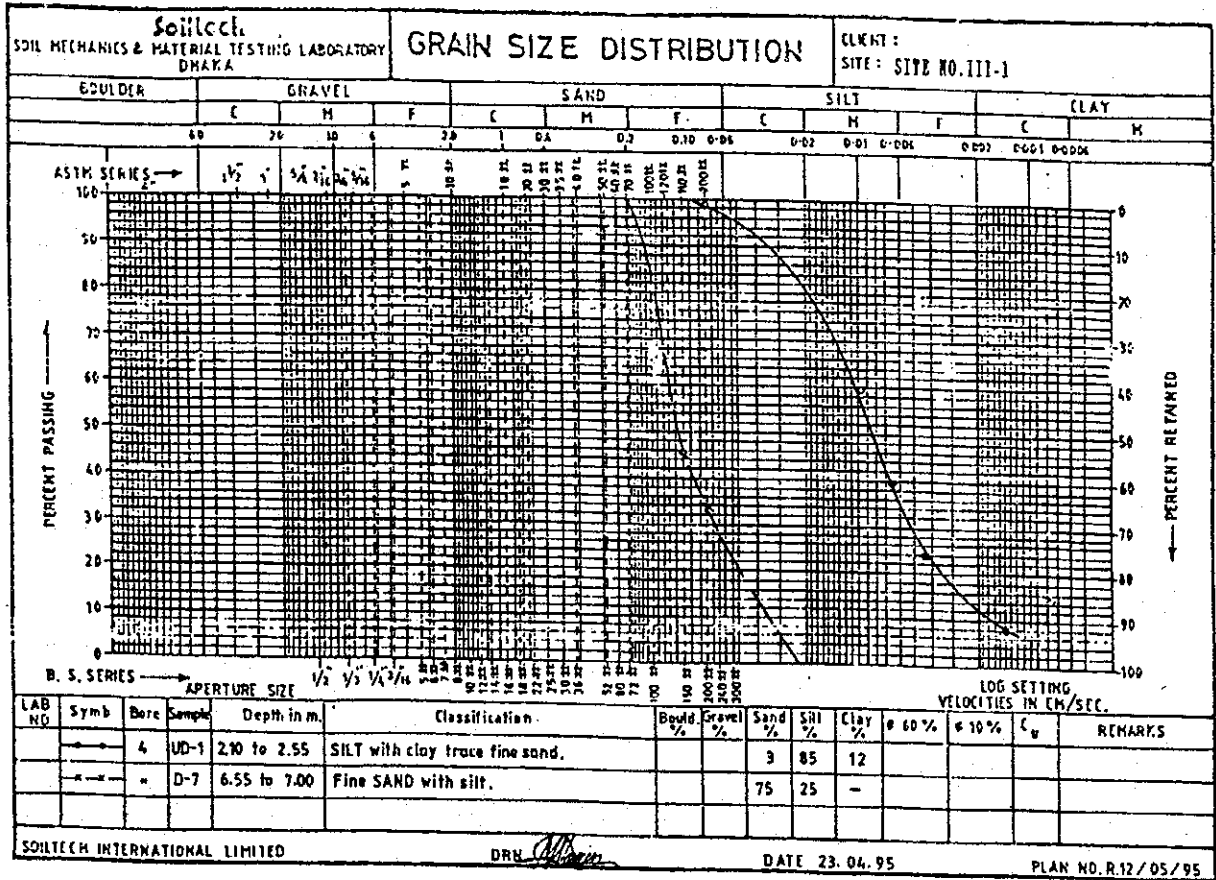


APPENDIX 10-2-4

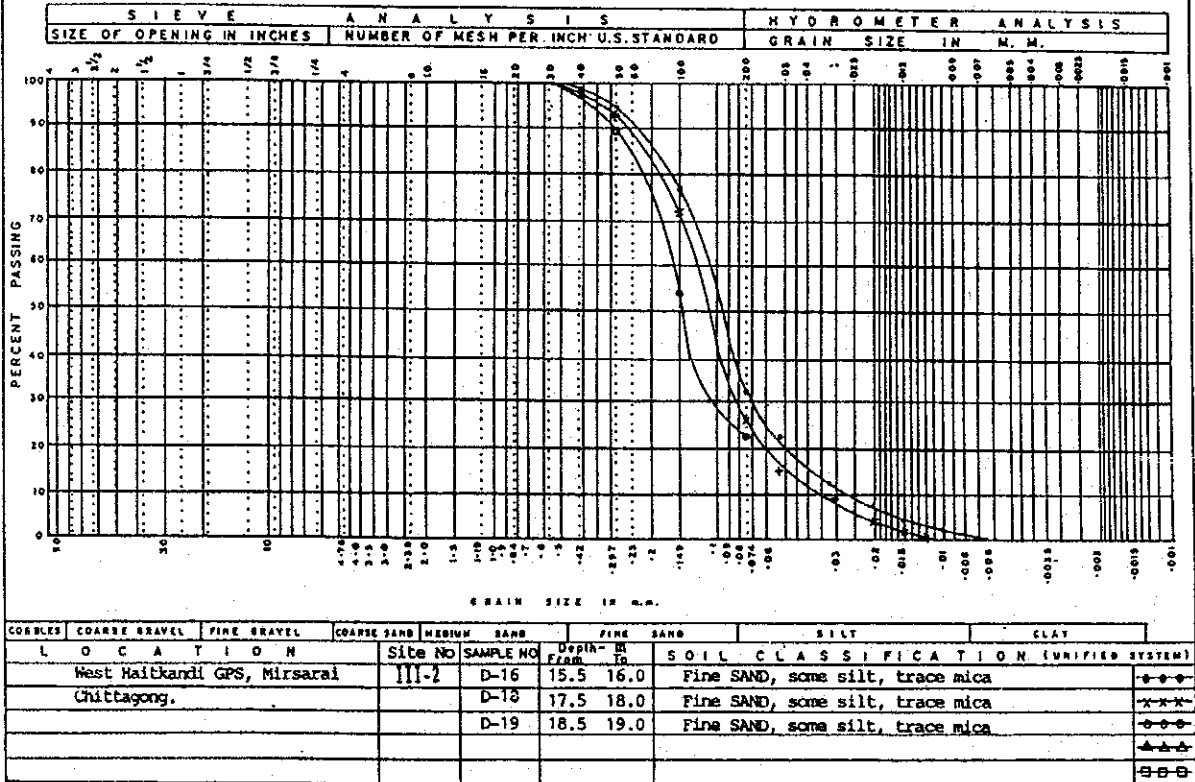
GRAIN SIZE DISTRIBUTION



SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3

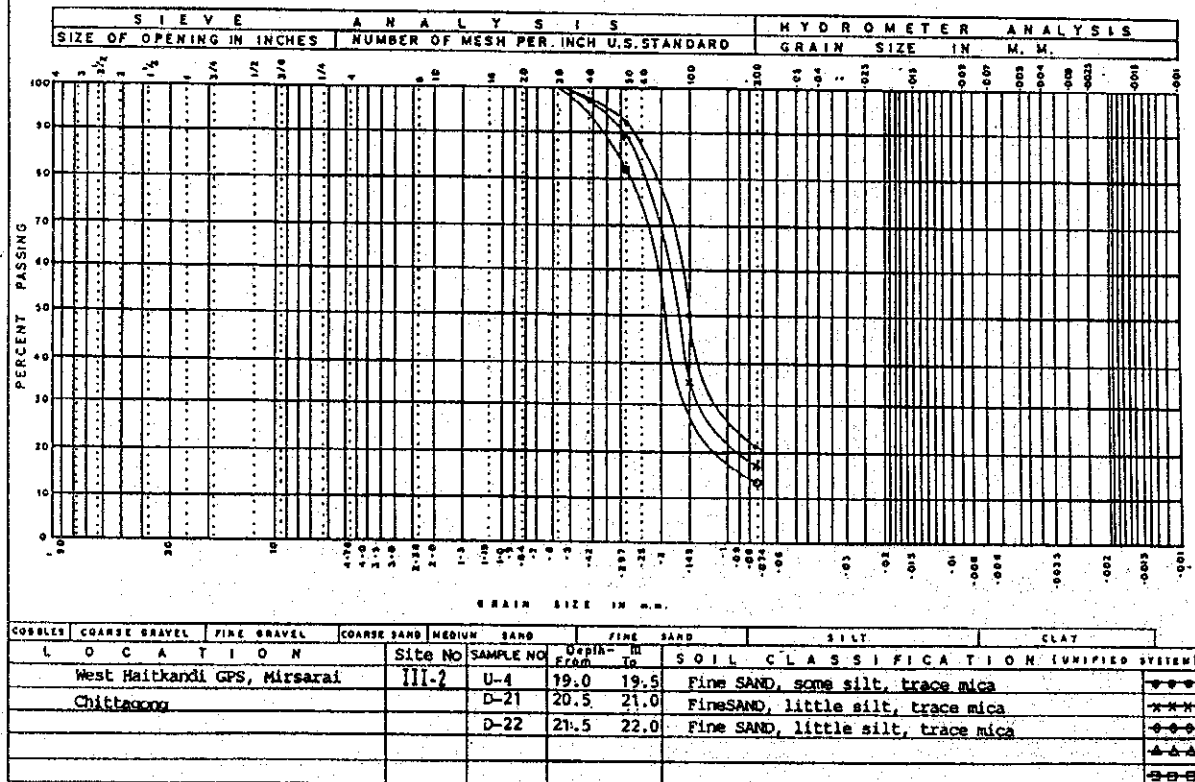
SITE NO. III-2



SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3

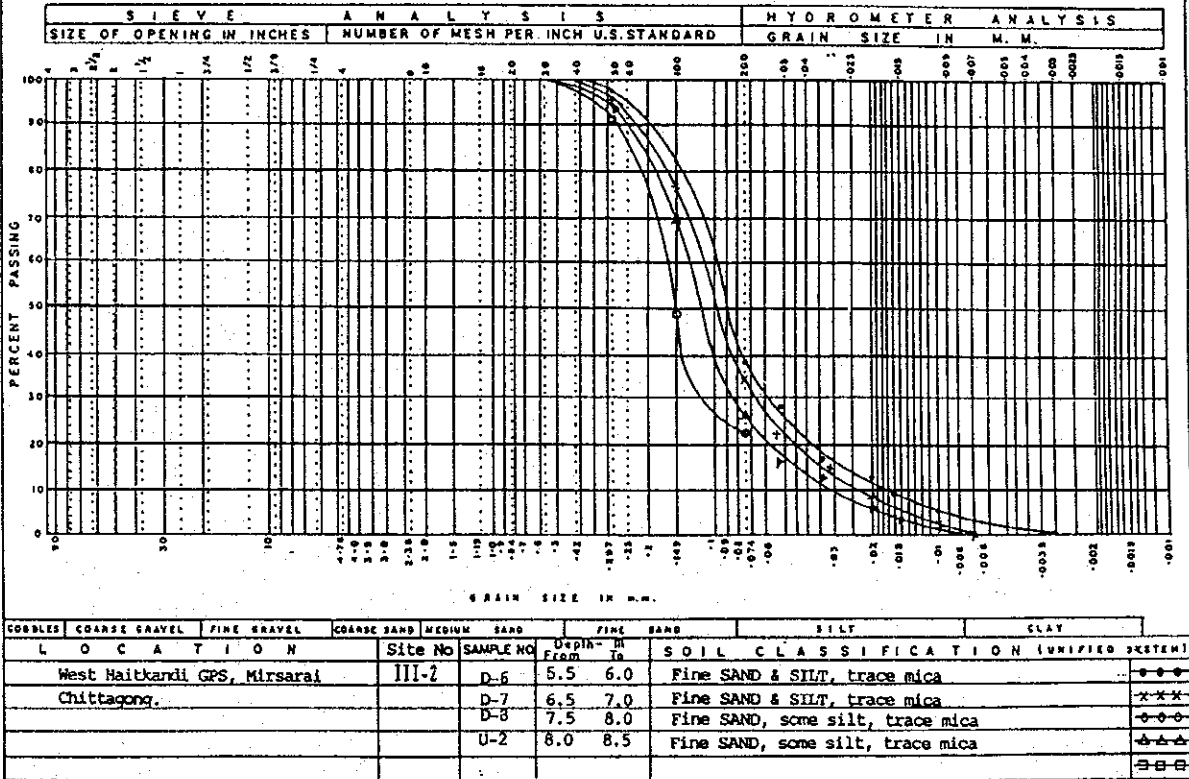
SITE NO. III-2



SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3

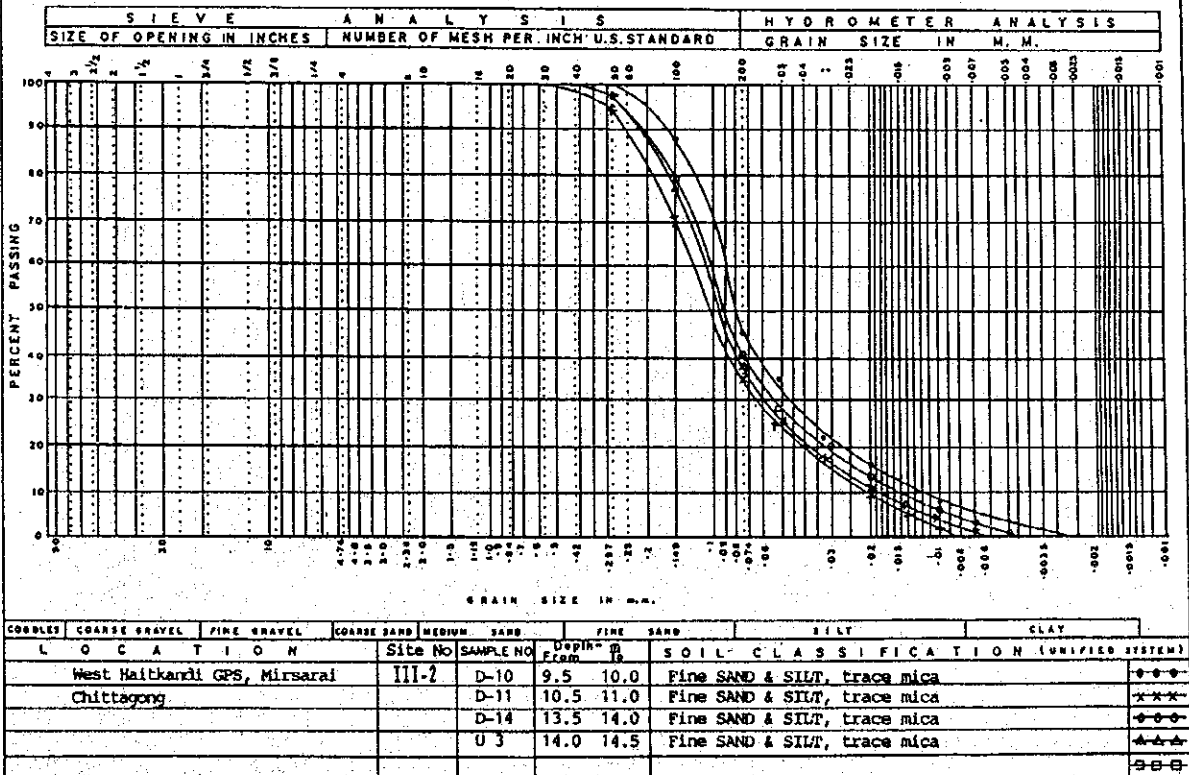
SITE NO. III-2

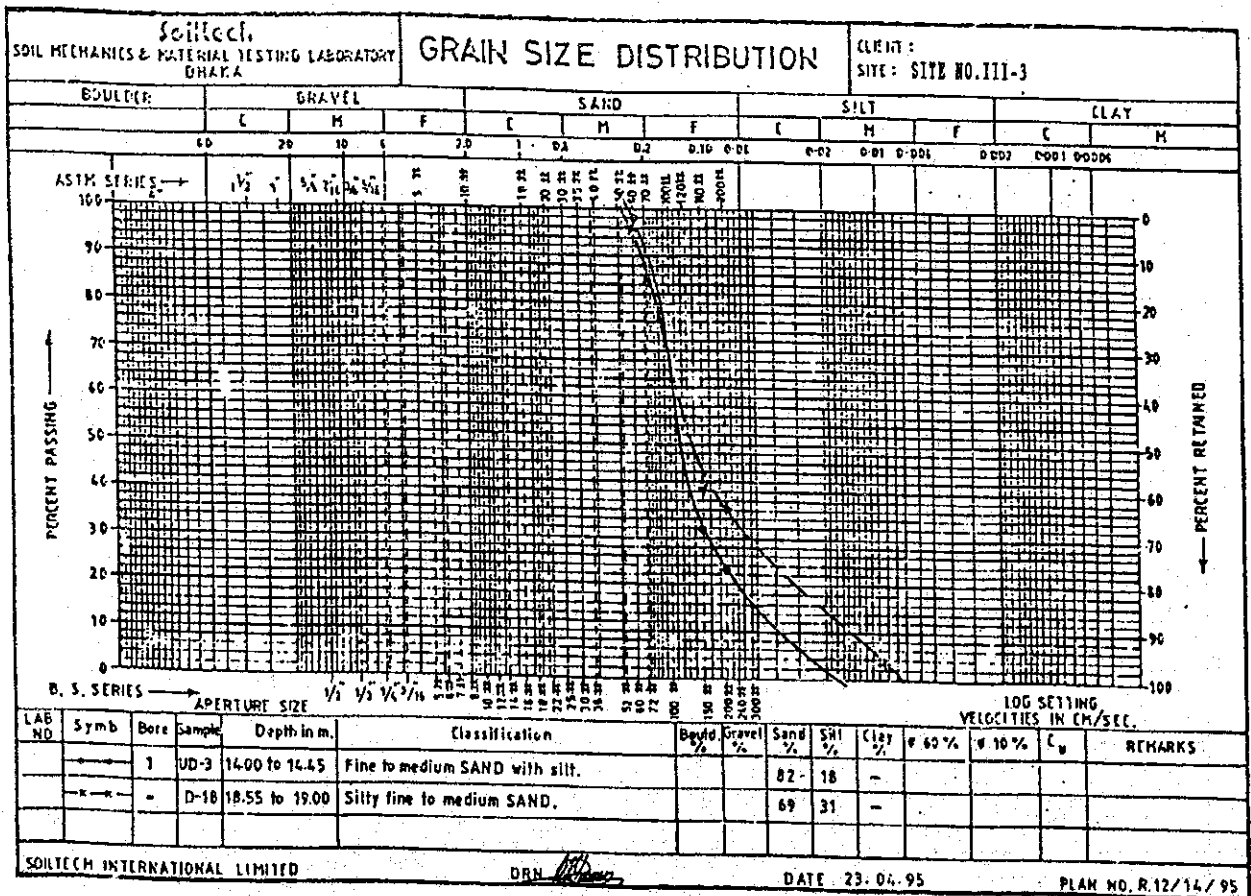
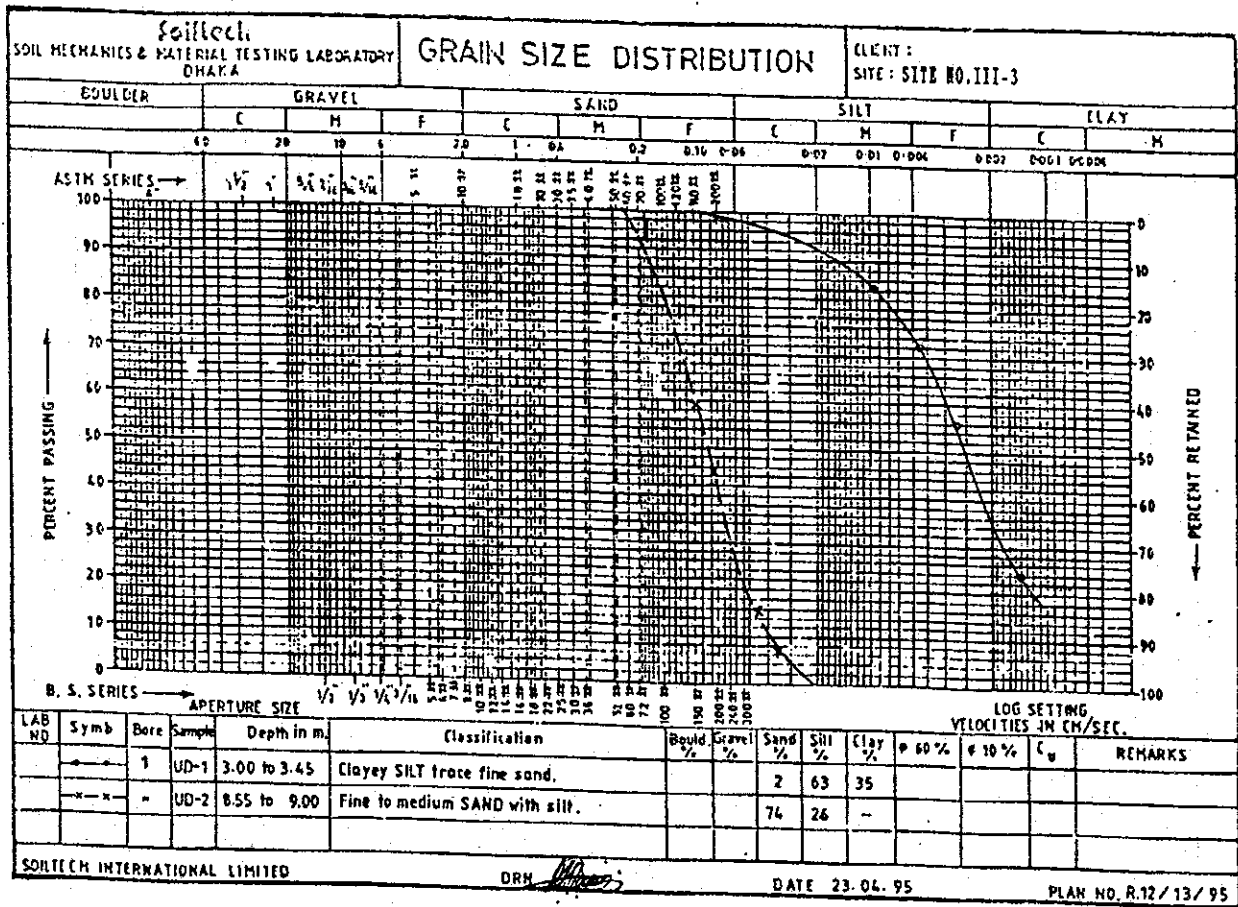


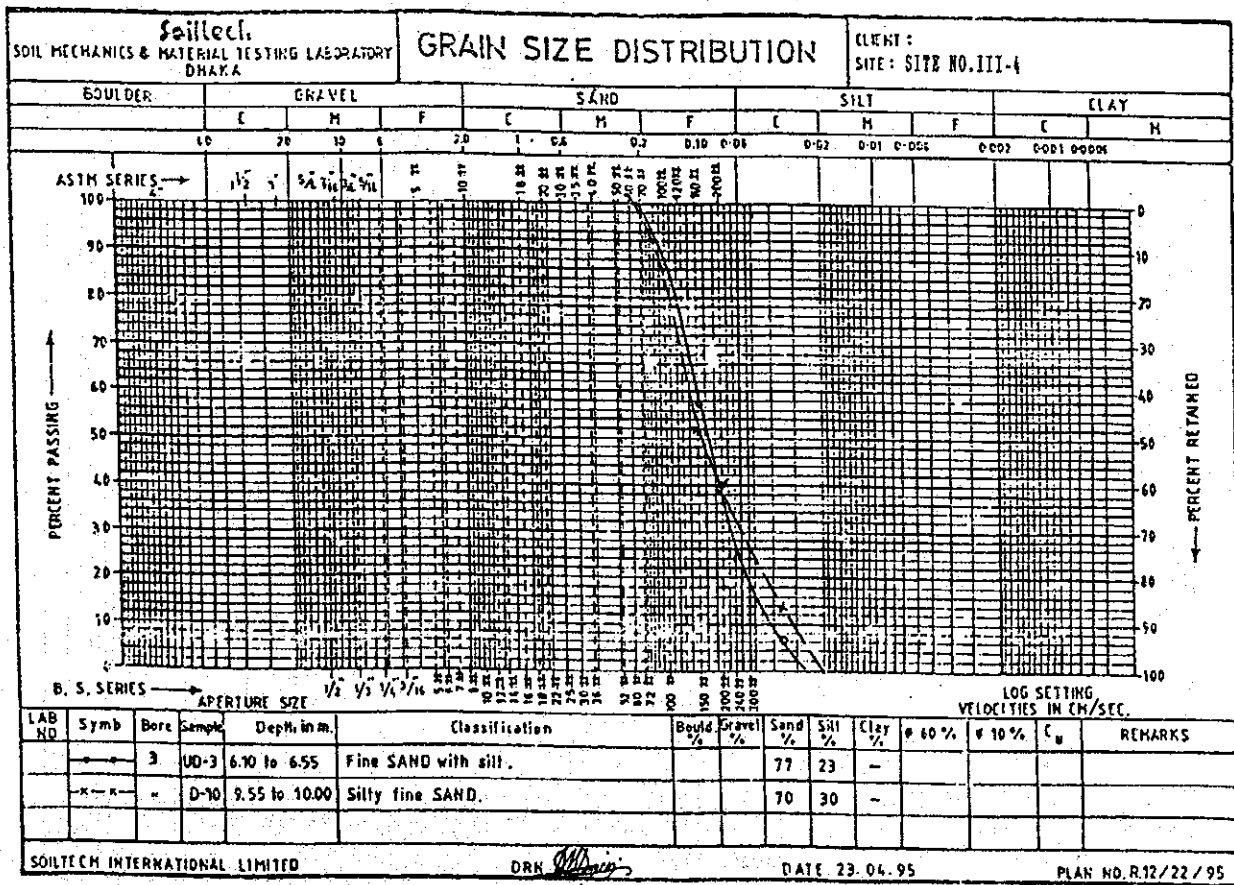
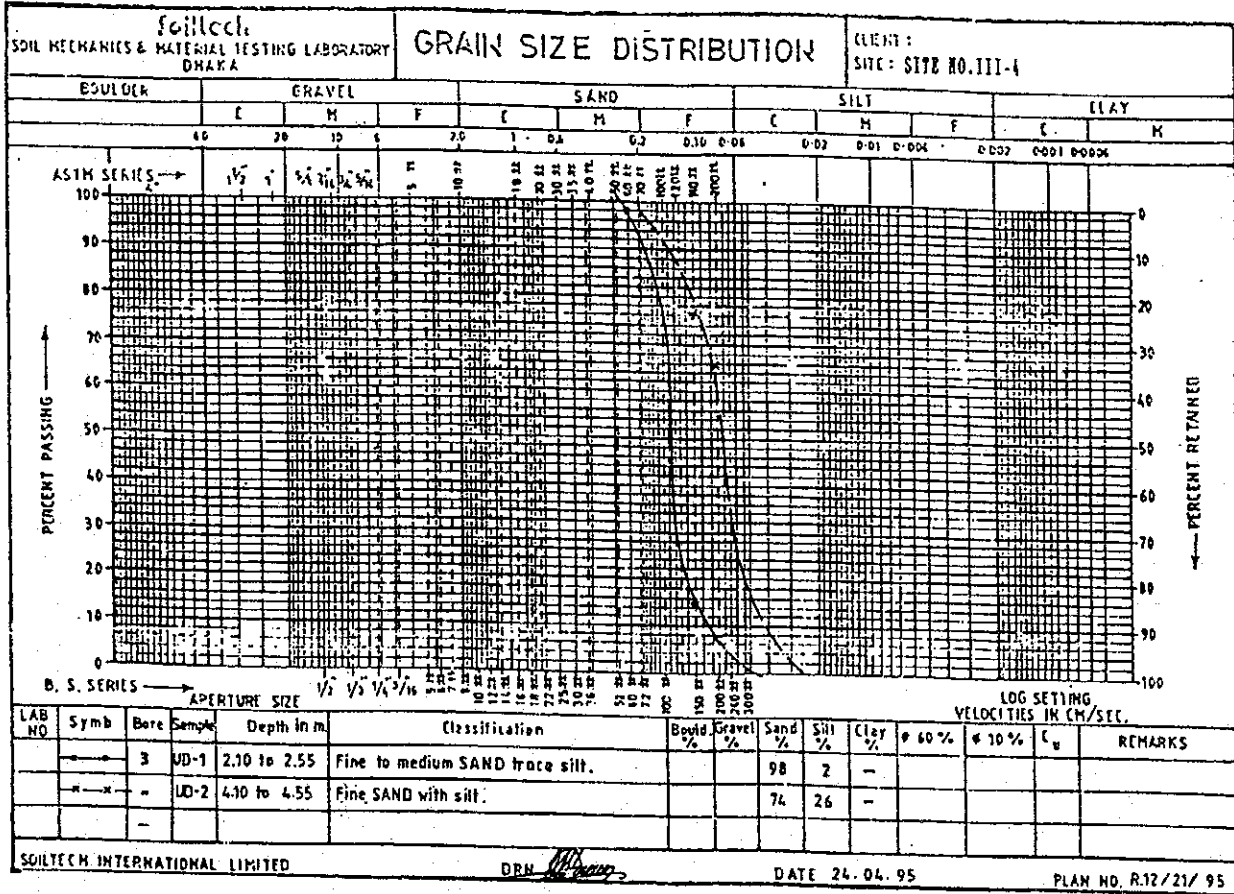
SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3

SITE NO. III-2



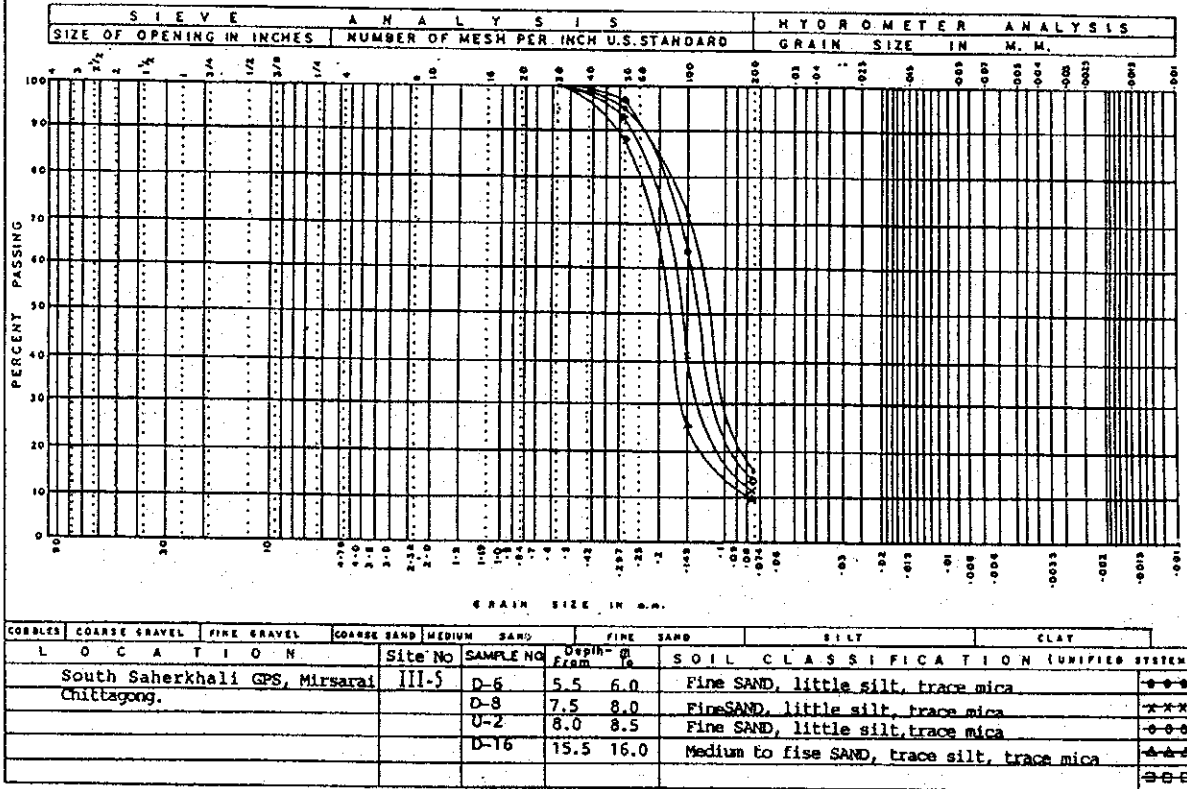




SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
 PARTICLE SIZE GRADATION

FORM NO. ST-3

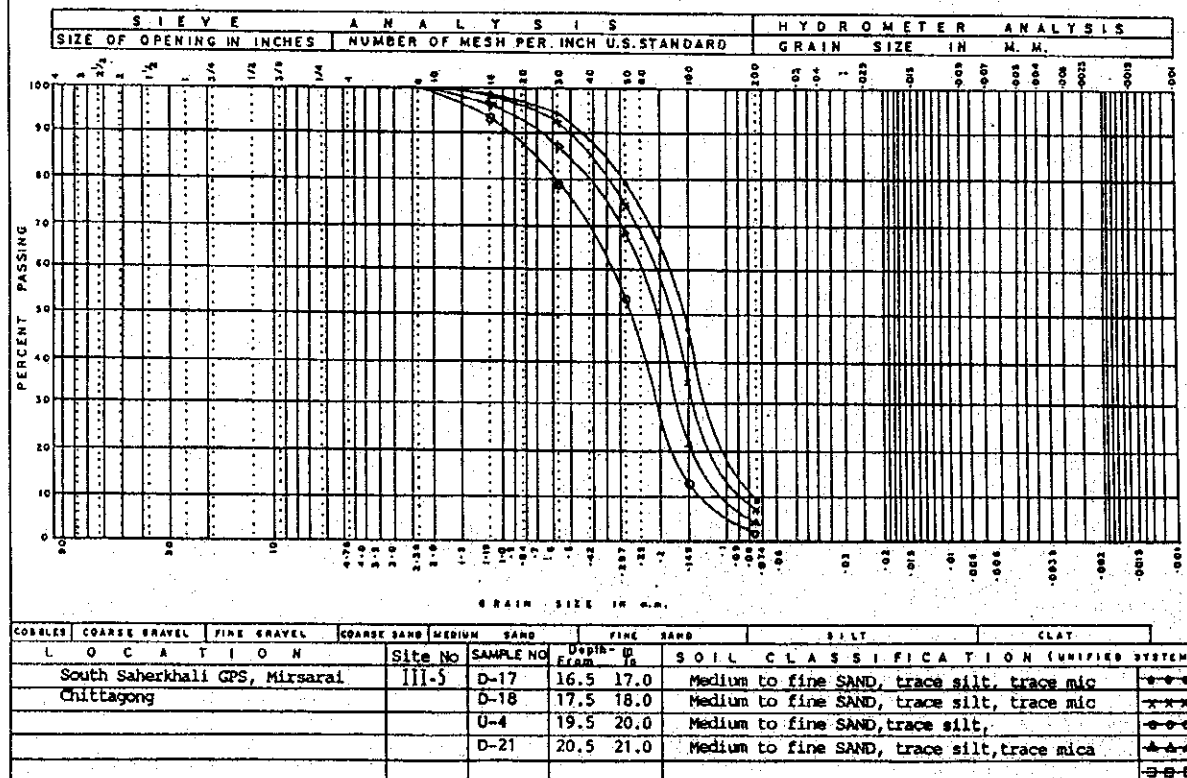
SITE NO. III-5

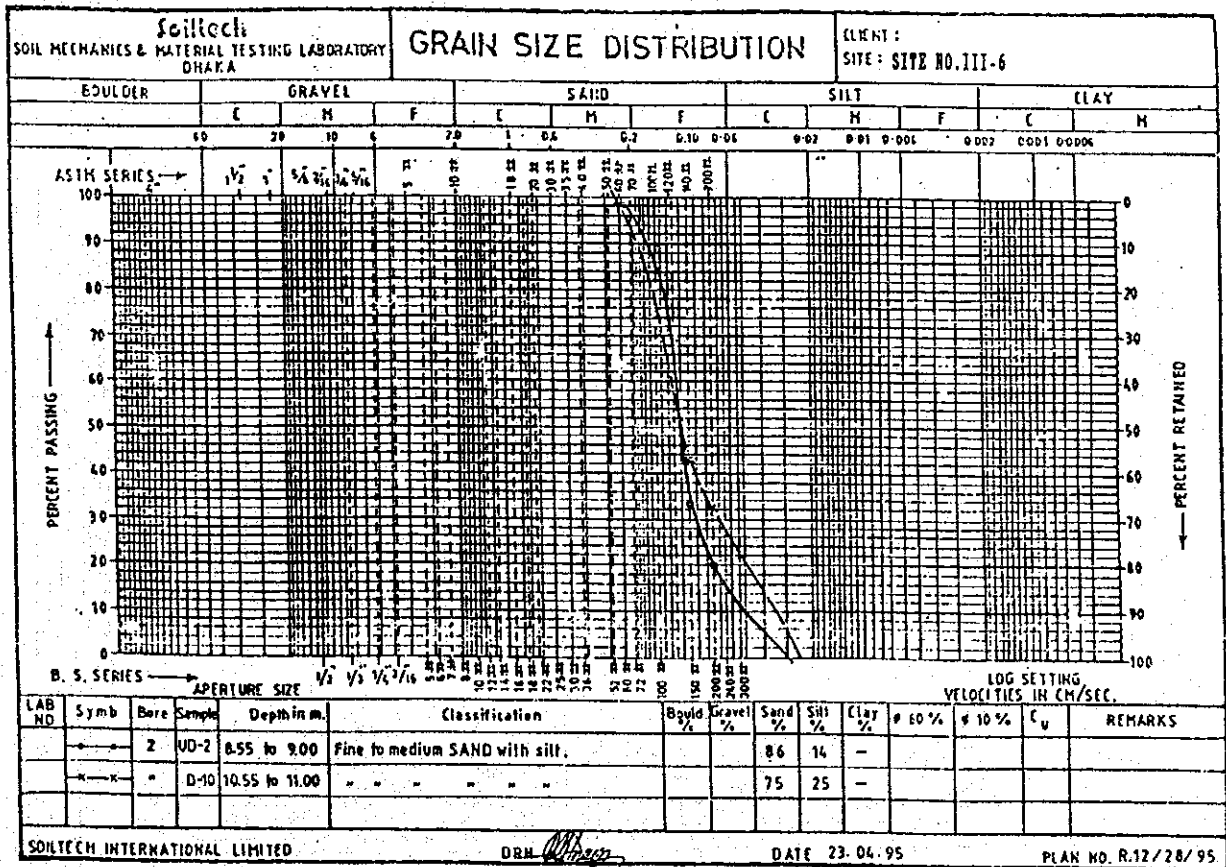
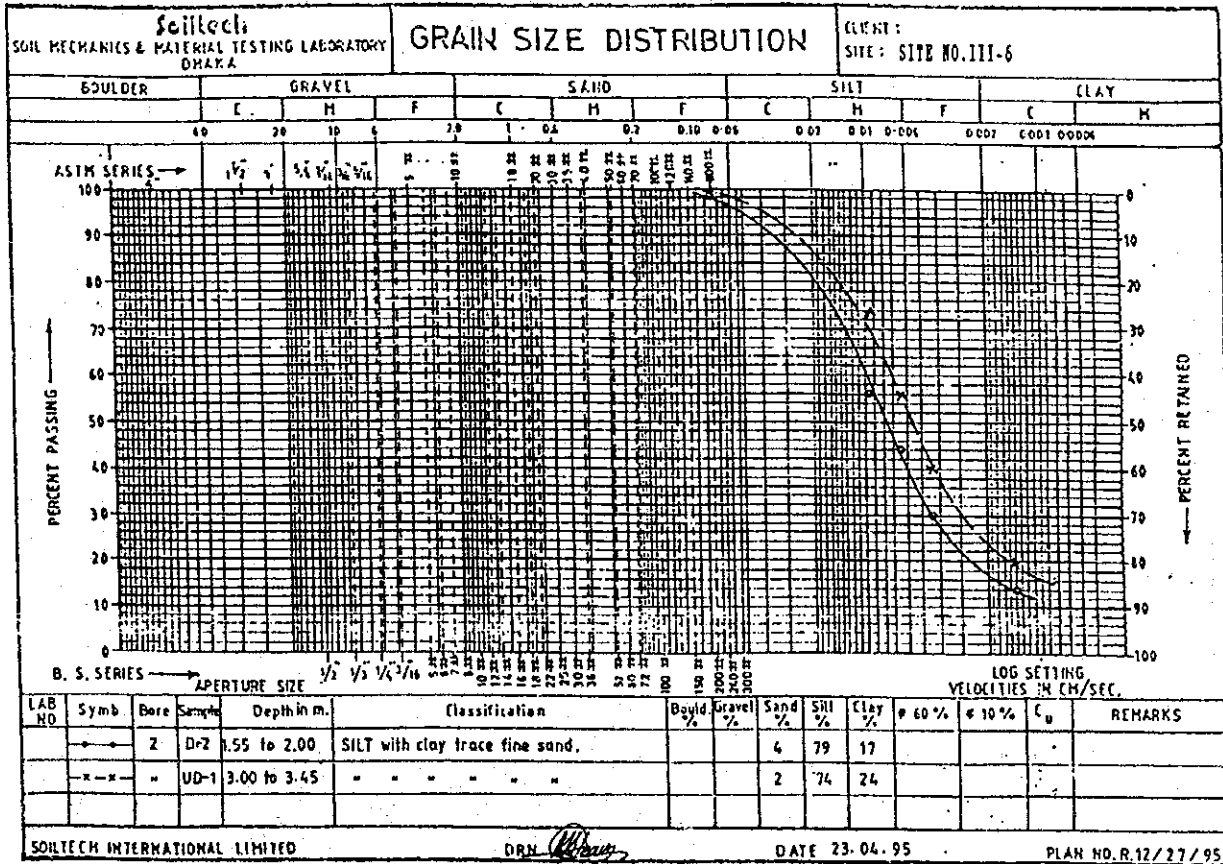


SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
 PARTICLE SIZE GRADATION

FORM NO. ST-3

SITE NO. III-5

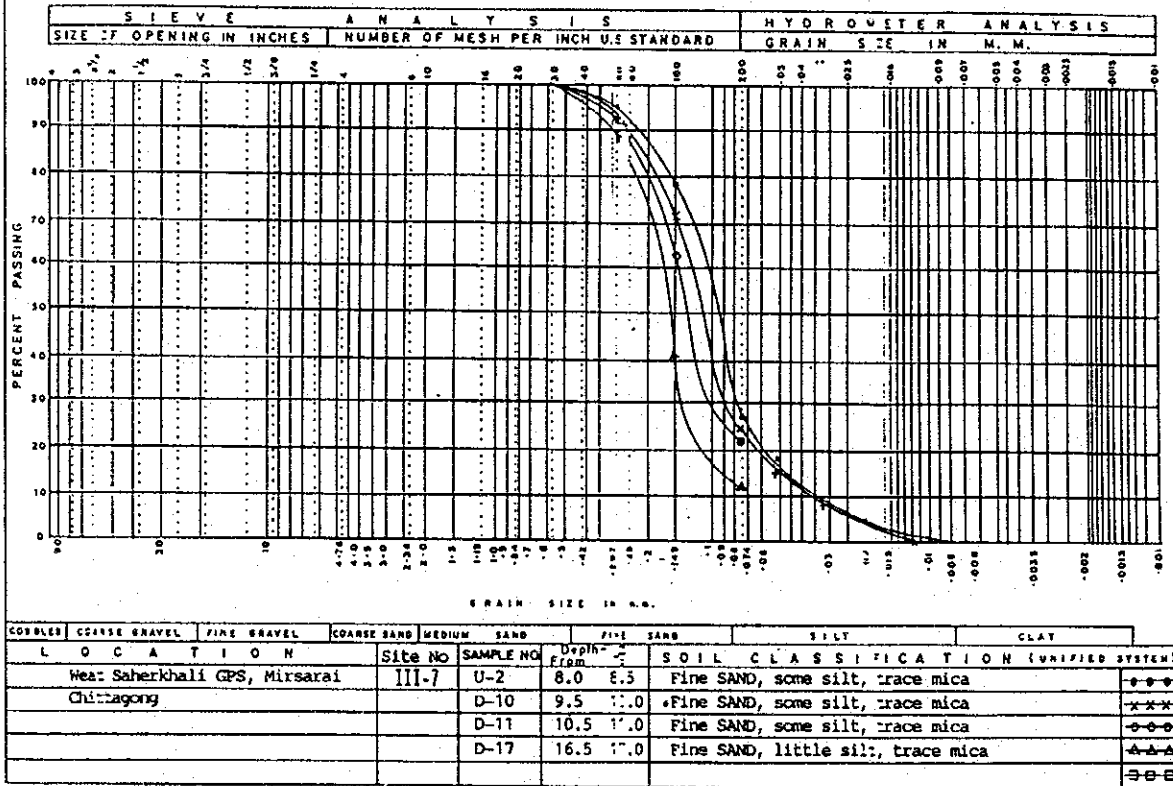




SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

FORM NO. ST-3

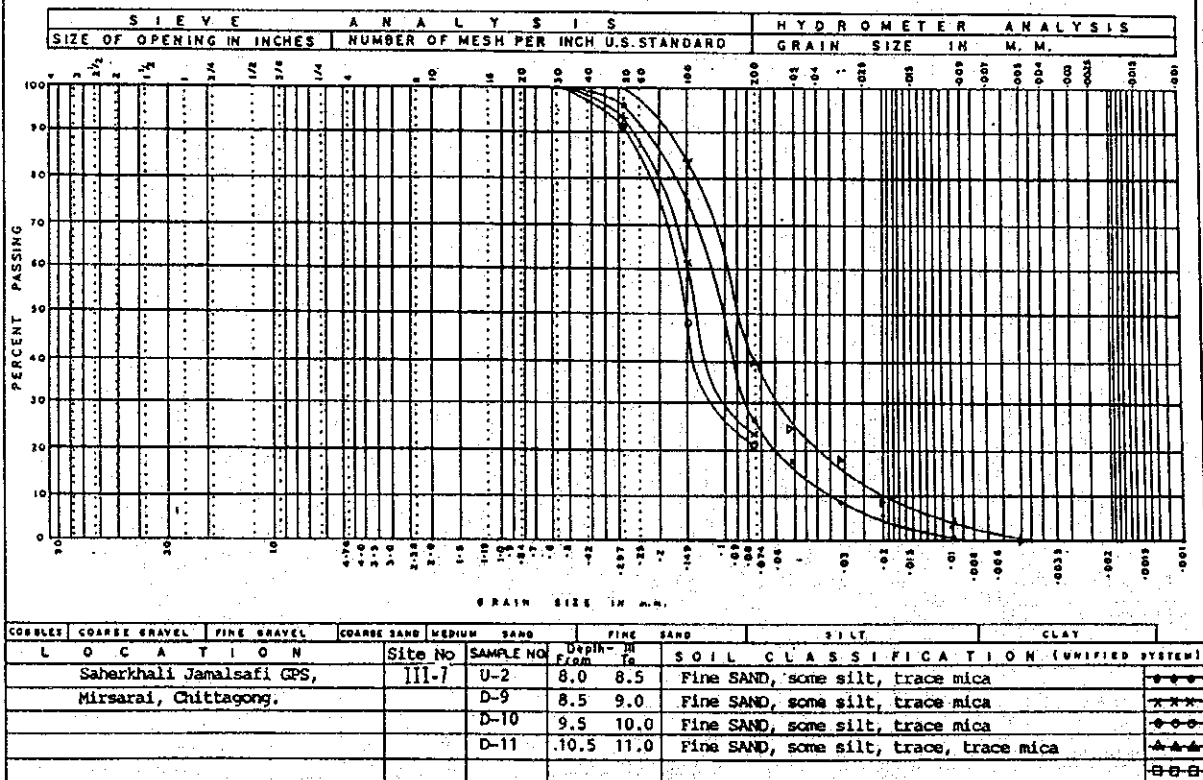
SITE NO. III-7

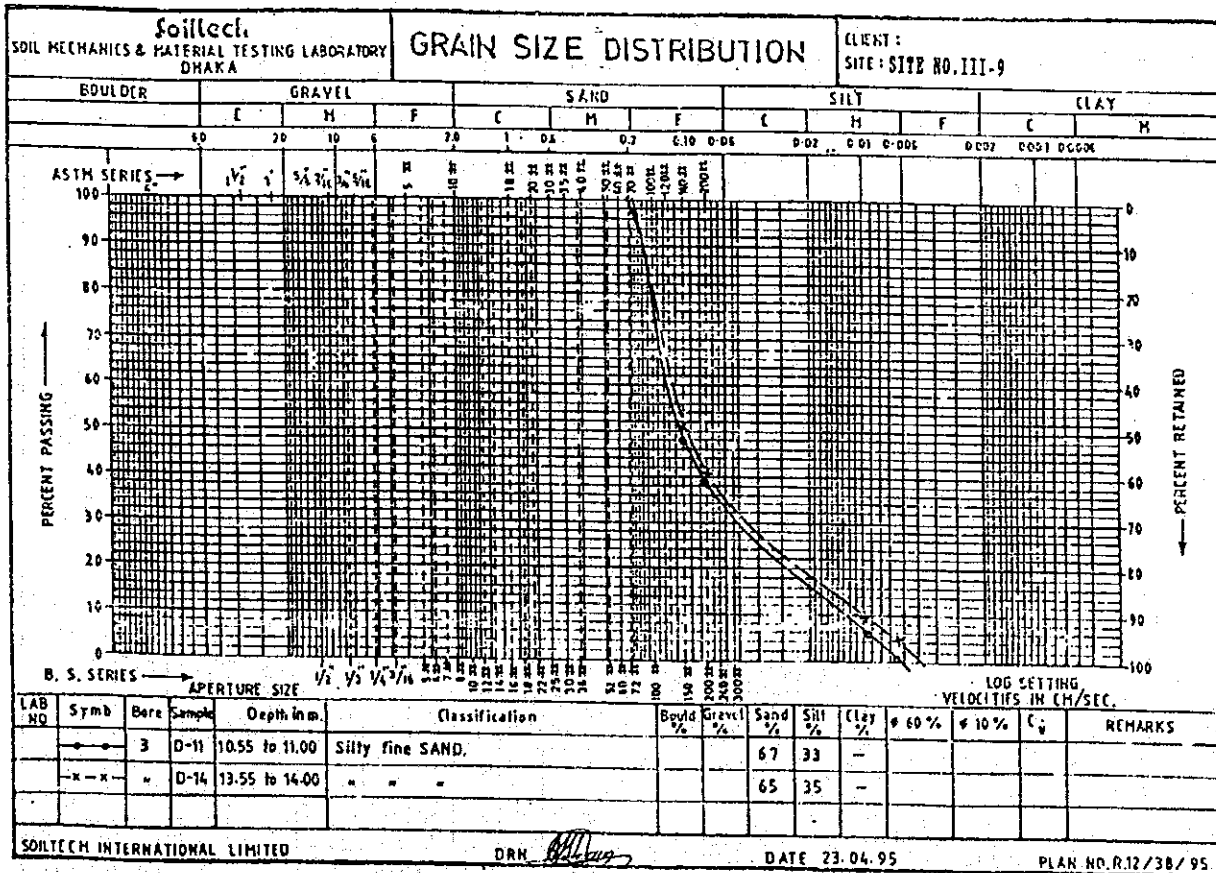
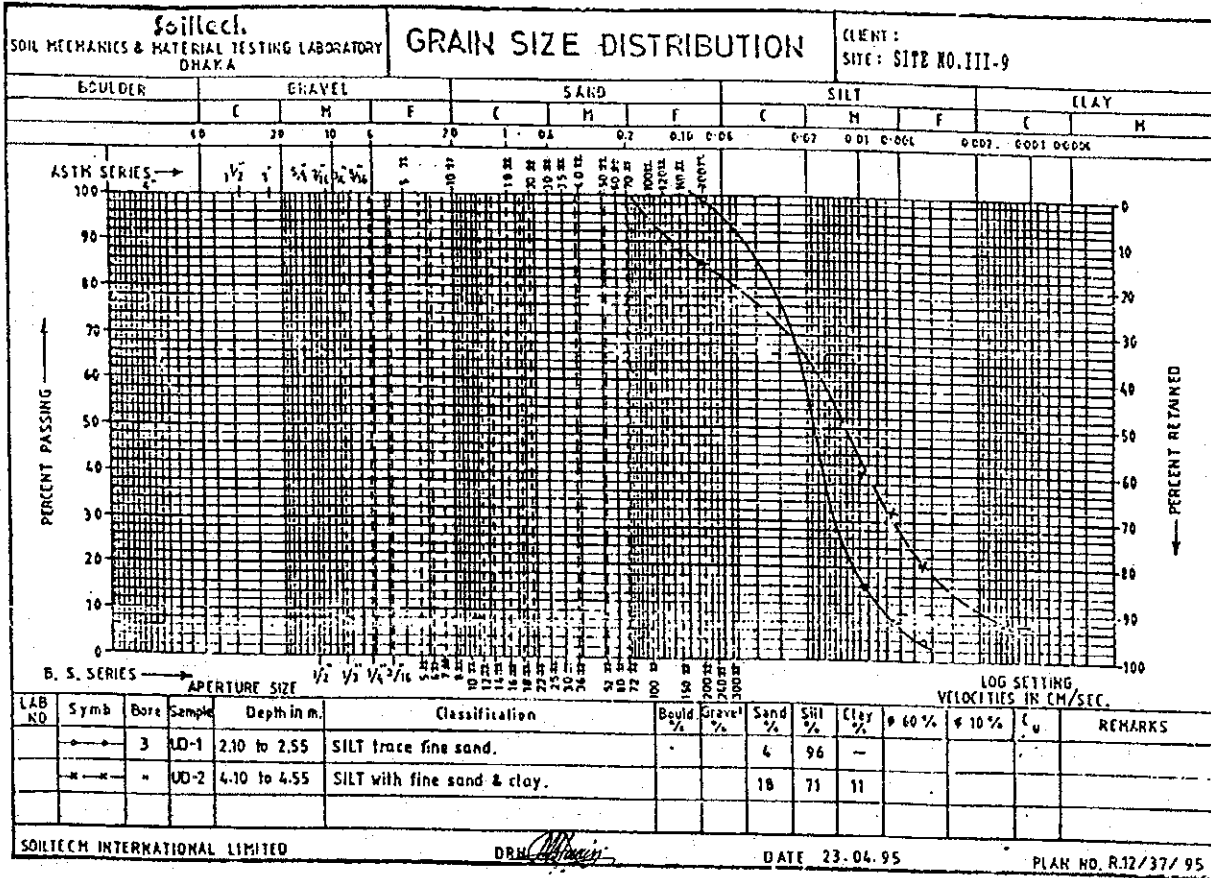


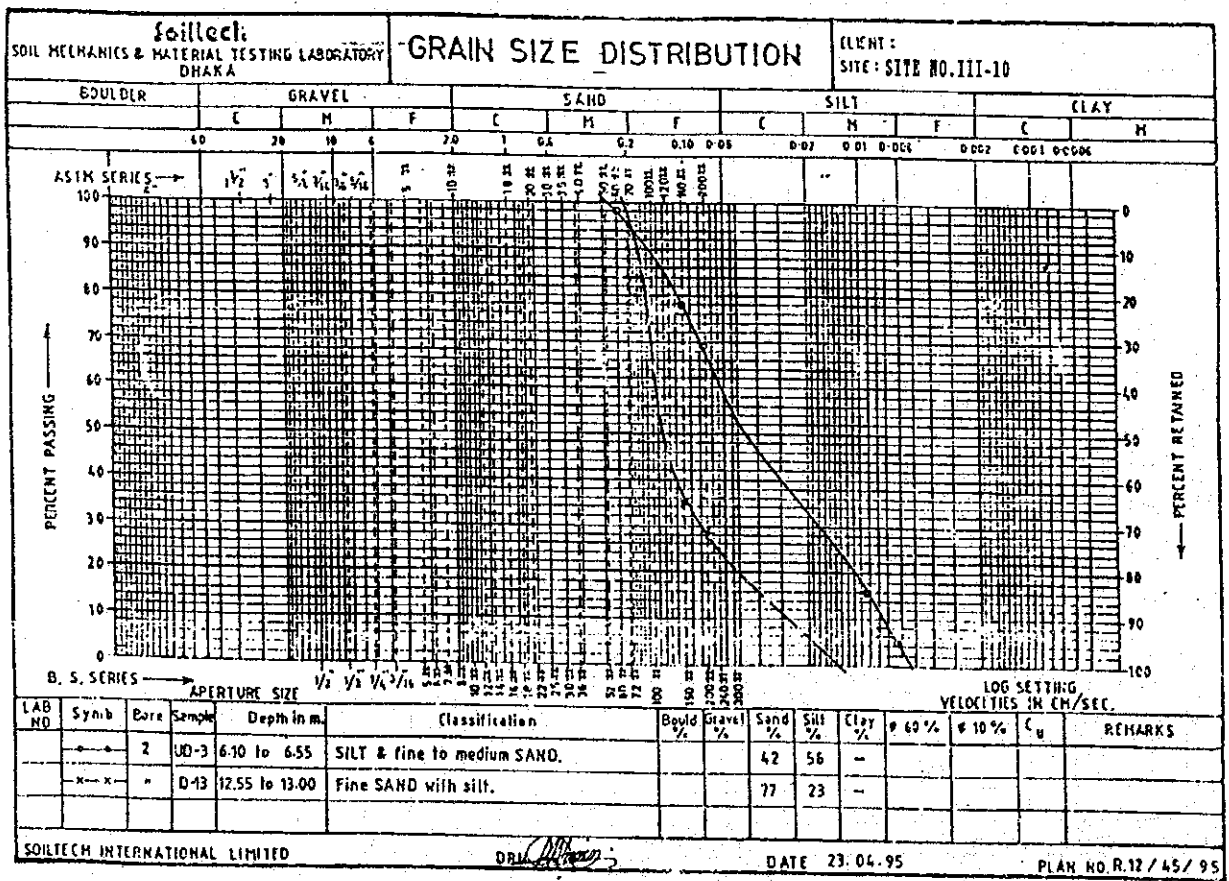
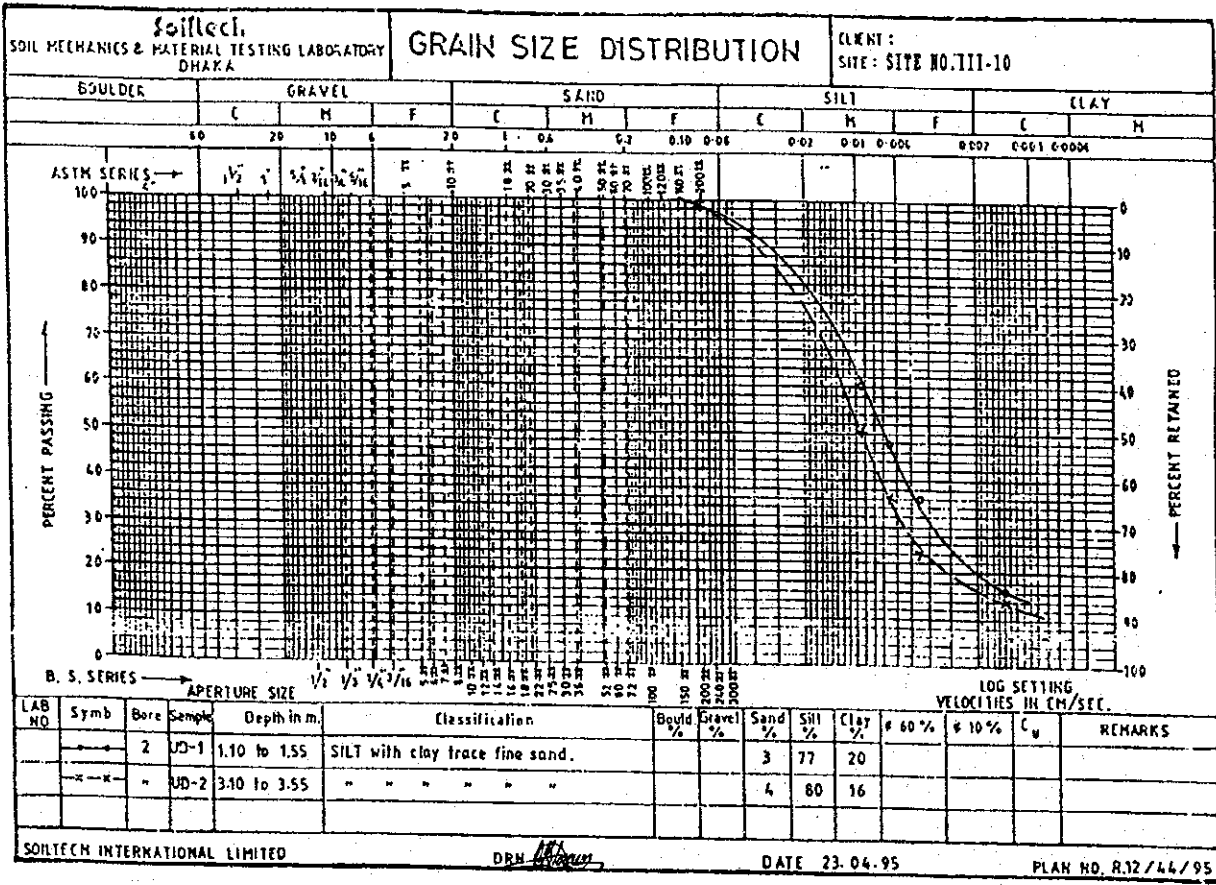
SOILTEST INTERNATIONAL
MATERIAL TESTING LABORATORY
PARTICLE SIZE GRADATION

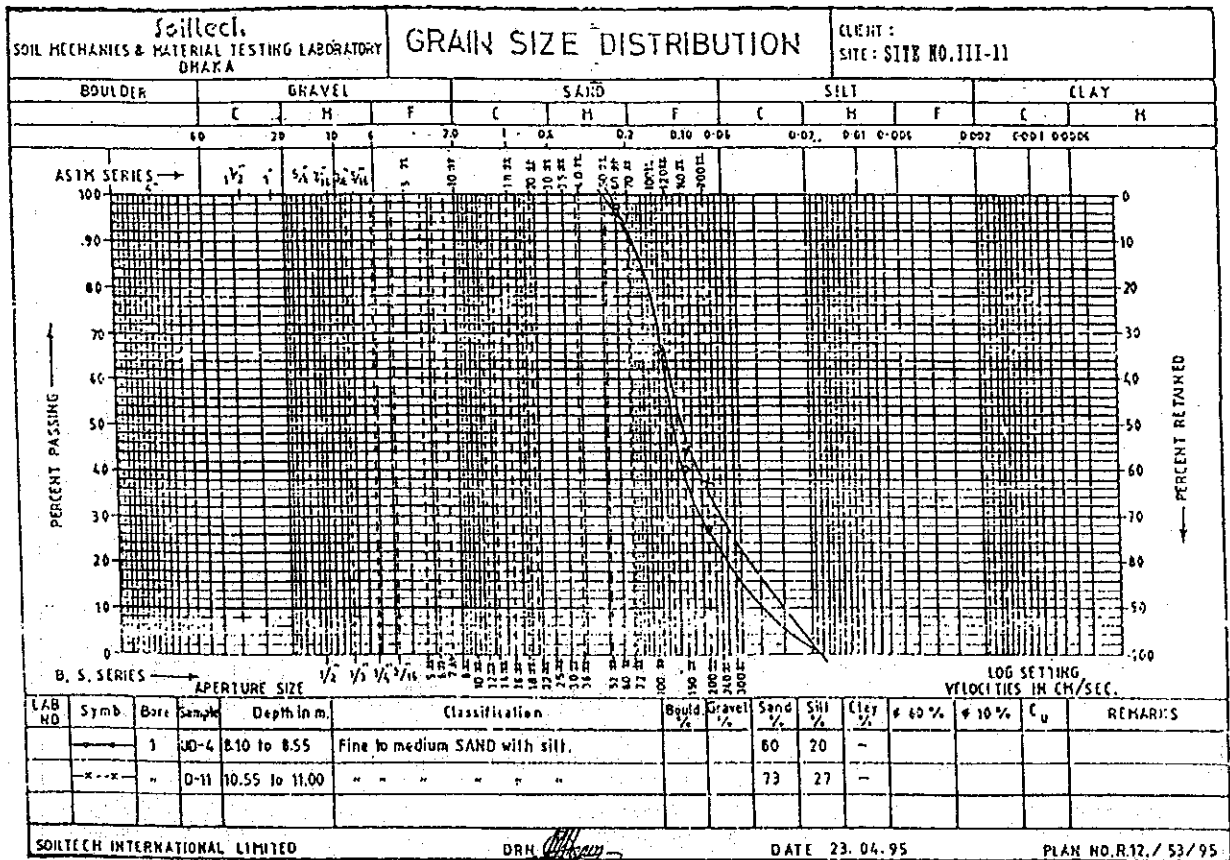
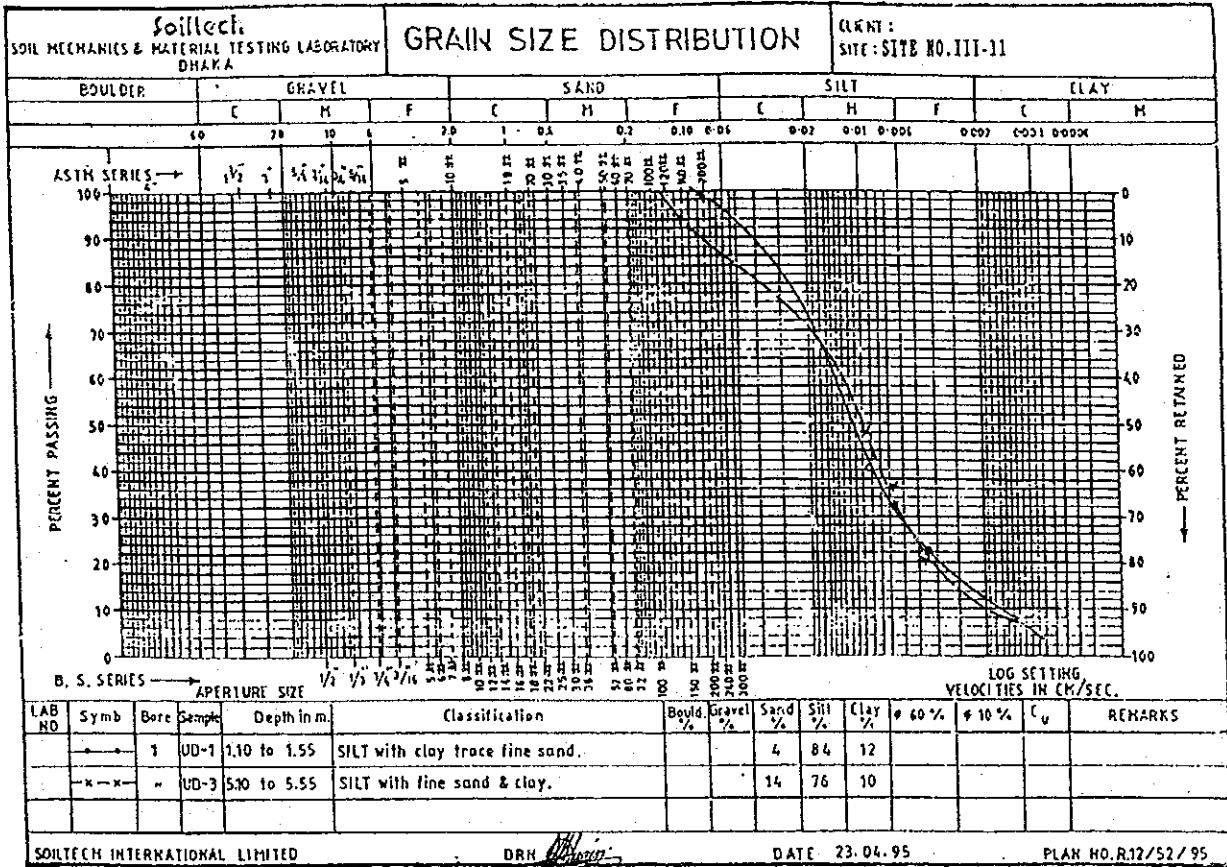
FORM NO. ST-3

SITE NO. III-8

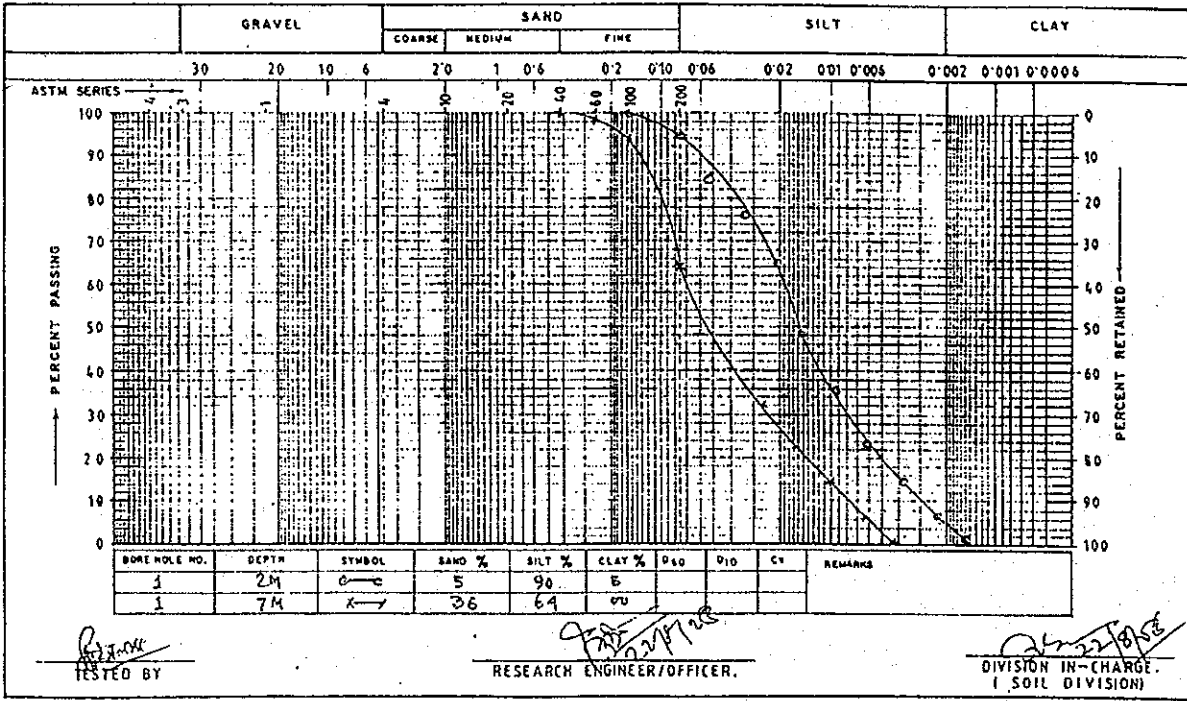




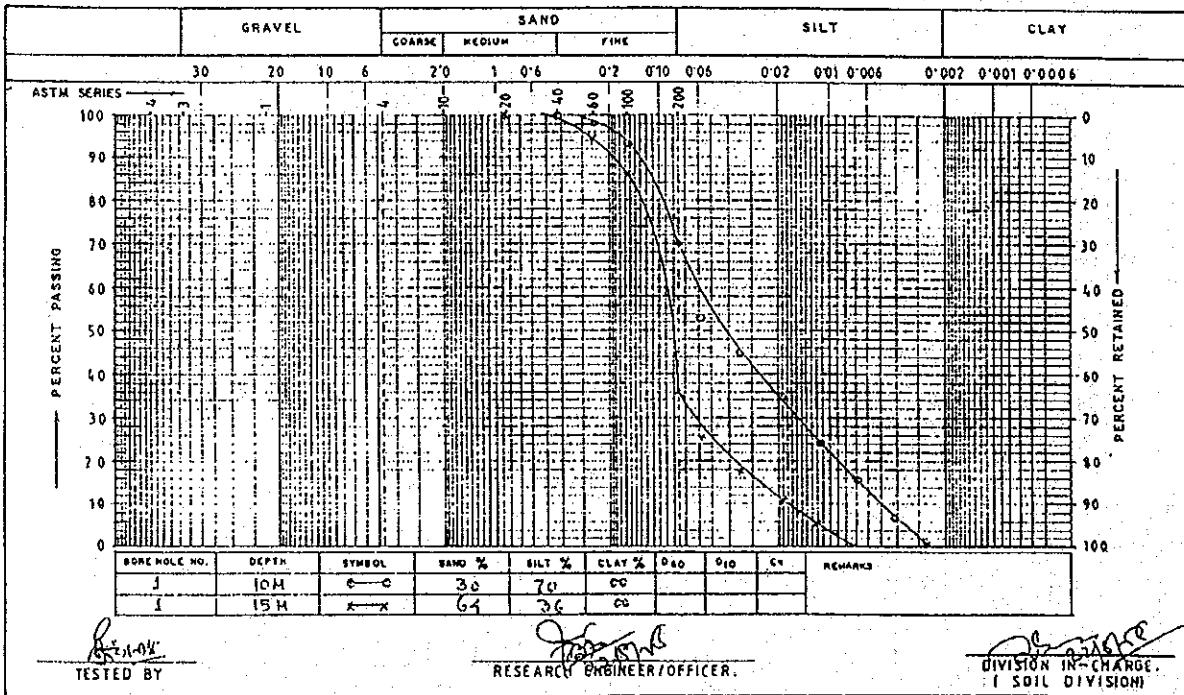




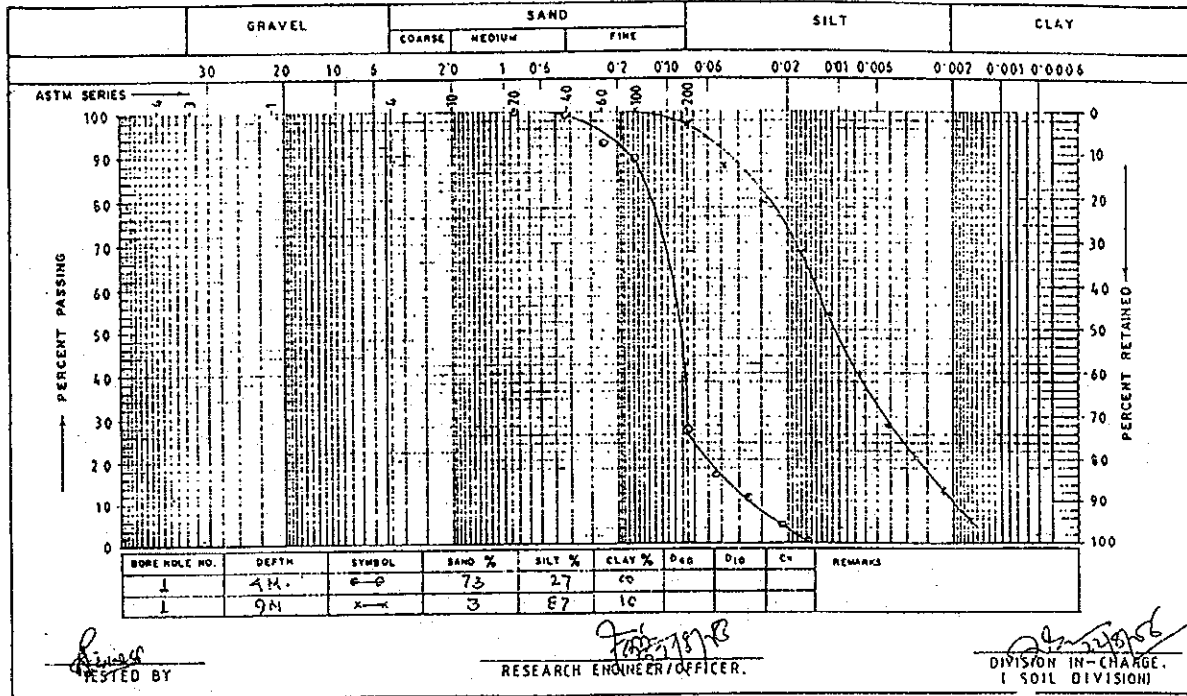
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAH, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-12



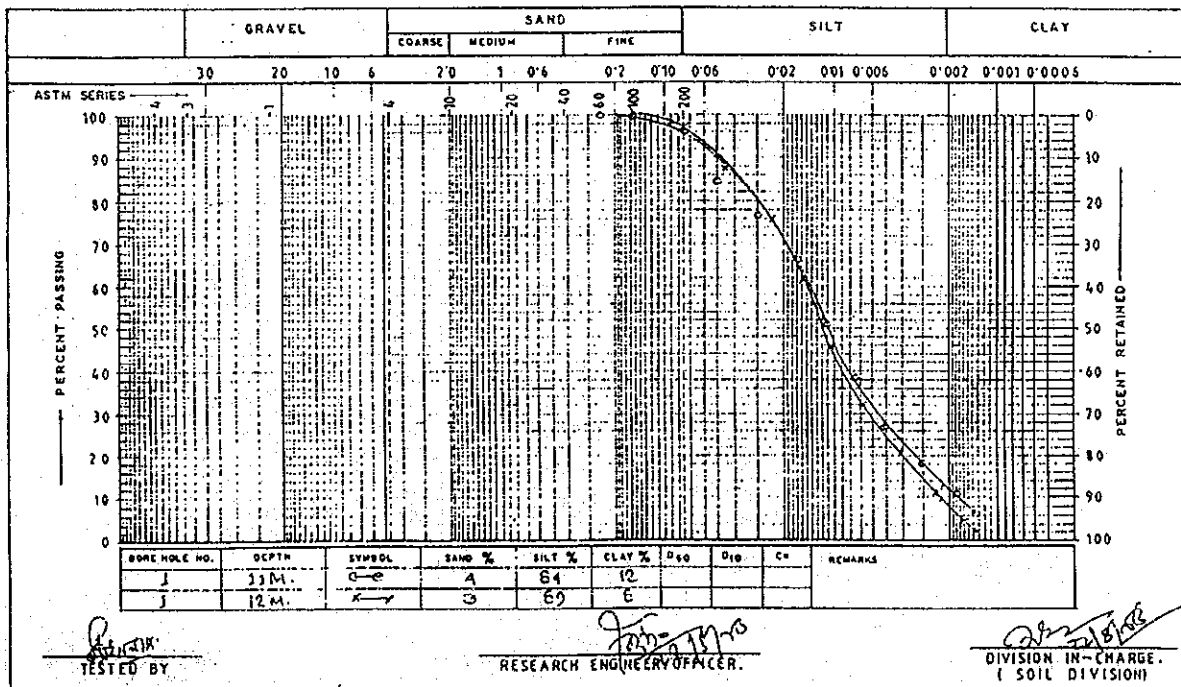
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAH, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-12



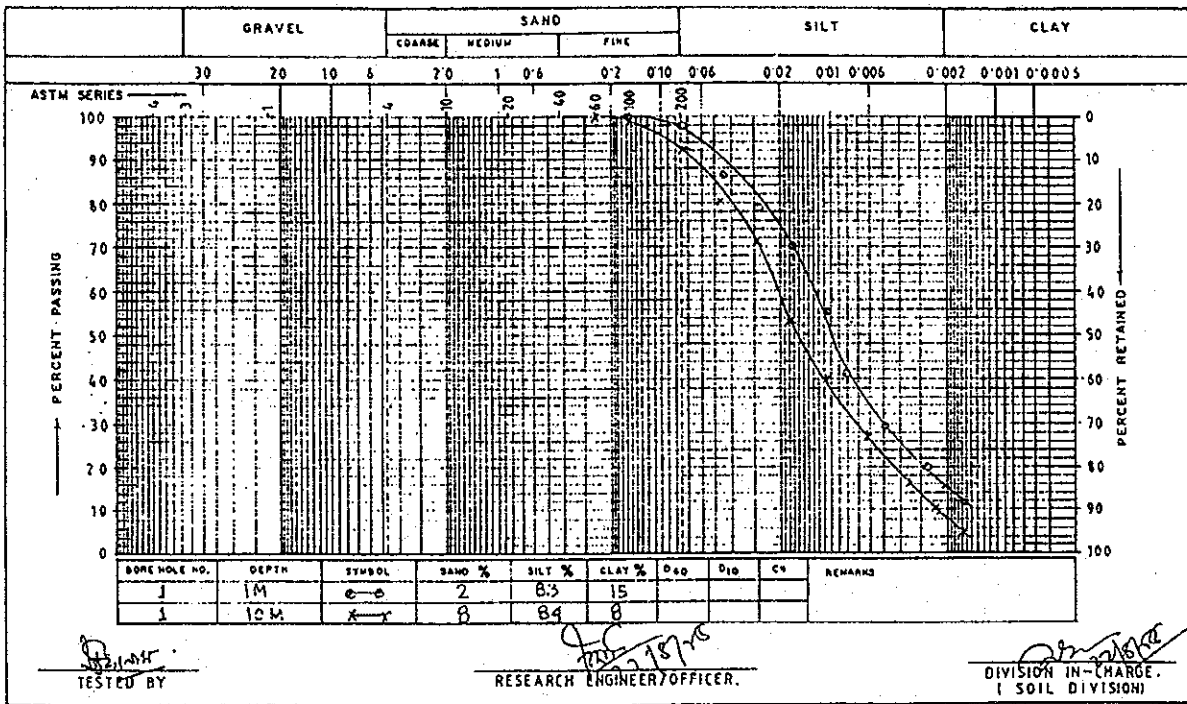
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-13



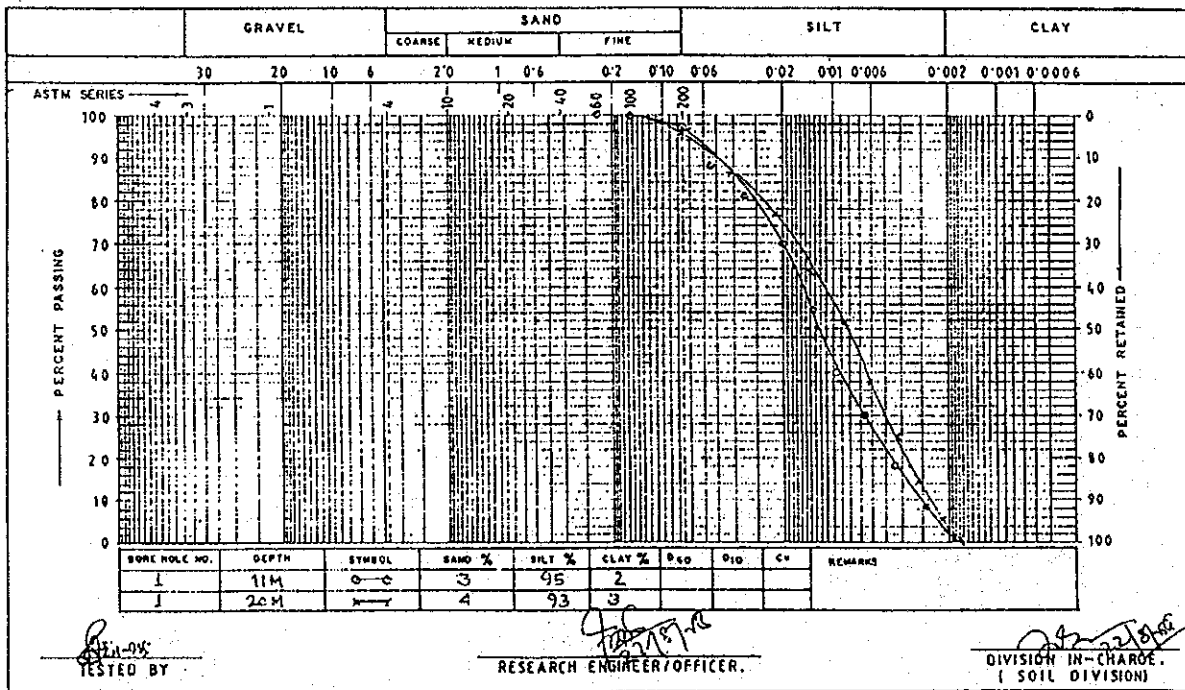
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-13



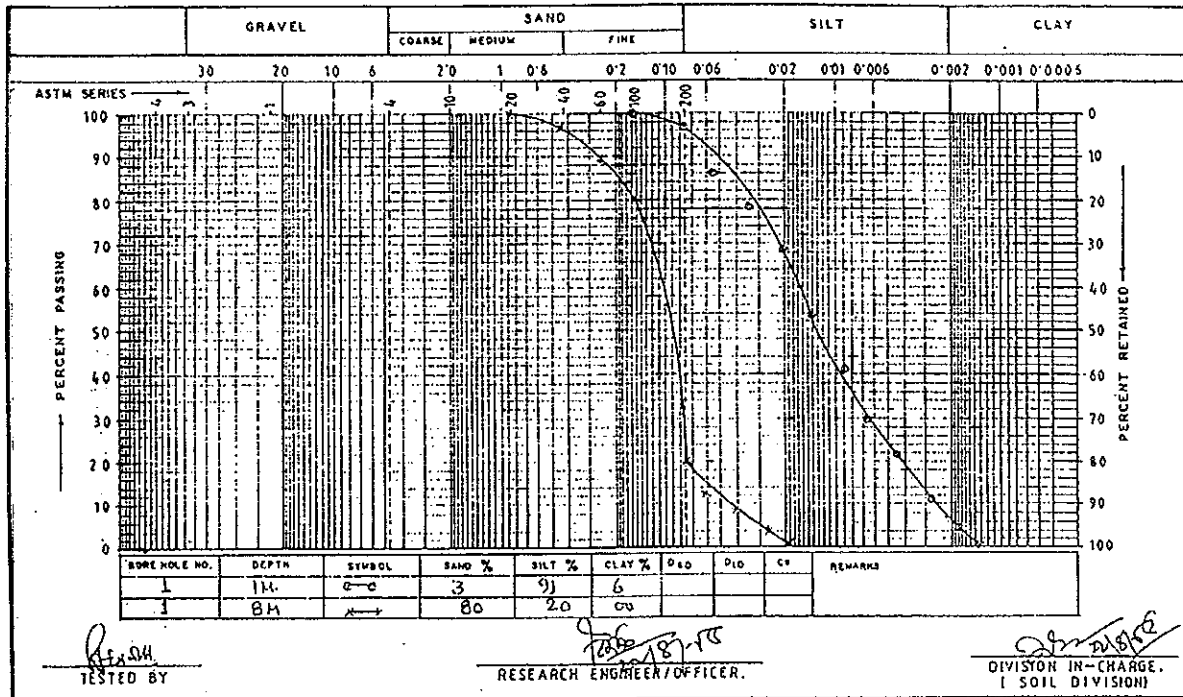
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-14



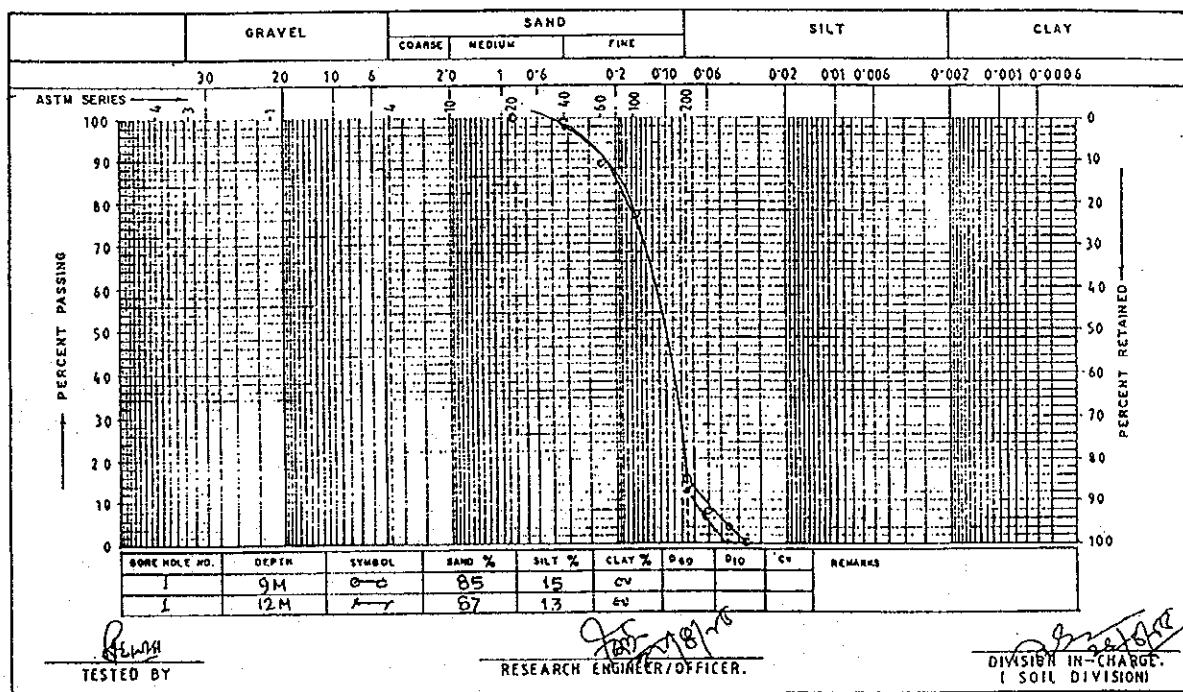
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-14



SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-15



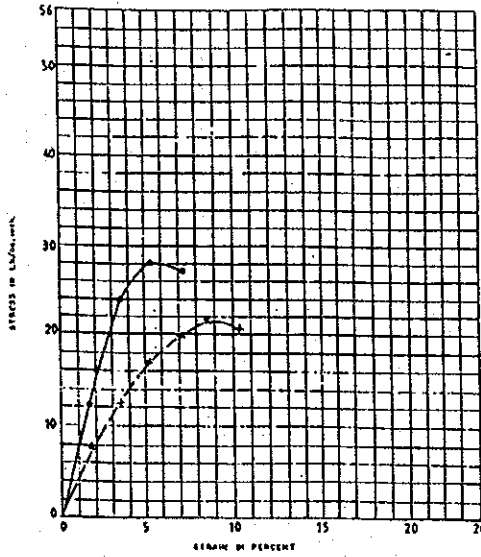
SOIL MECHANICS & FOUNDATION ENGINEERING DIVISION HOUSING & BUILDING RESEARCH INSTITUTE DARUS SALAM, MIRPUR, DHAKA.	GRAIN SIZE ANALYSIS	CLIENT
	PROJECT	LOCATION SITE NO. III-15



APPENDIX 10-2-5

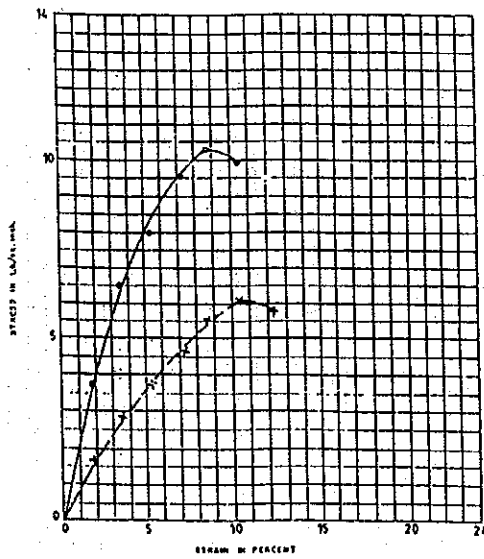
UNCONFINED COMPRESSION TESTS

SITE NO. III-1



Unclassified compressive strength	1.001
Percent Strain at failure	5.357
Sensitivity	$78.02 / 21.66 = 3.593$
Moisture Content (%)	23.89
Dry Density (lb/cft)	99.89
Classification	

Un-disturbed Sample
Remoulded Sample

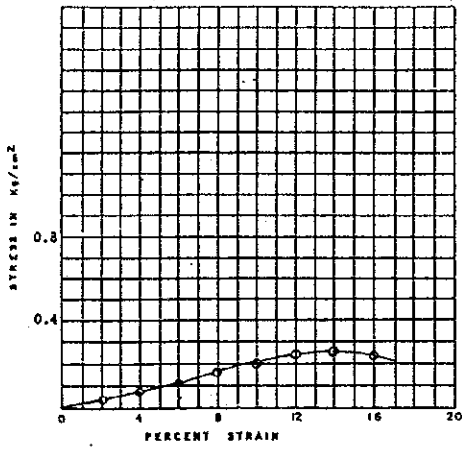


Unclassified compressive strength	0.666
Percent Strain at failure	8.928
Sensitivity	$50.35 / 6.38 = 7.894$
Moisture Content (%)	35.23
Dry Density (lb/cft)	85.39
Classification	

Un-disturbed Sample
Remoulded Sample

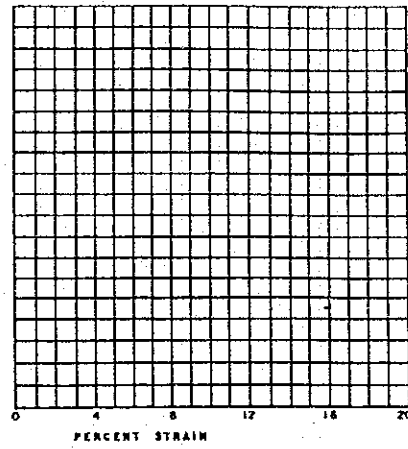
SITE NO. III-2

Sample No. U-1 Depth 3m to 3.5m



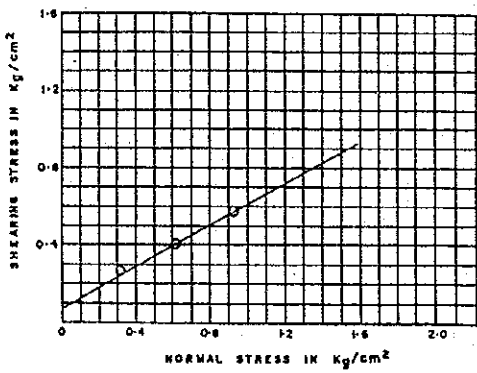
Unconfined compressive strength (Kg/cm ²)	0.2560
Percent strain at failure	14
Moisture content (%)	32.11
Dry density (gm/cc)	1.292

Site No. Sample No. Depth to



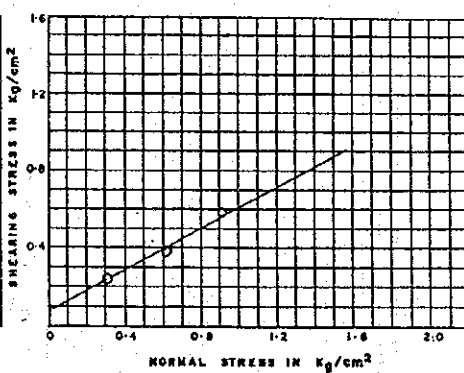
Unconfined compressive strength (Kg/cm ²)	
Percent strain at failure	
Moisture content (%)	
Dry density (gm/cc)	

Sample No. U-2 Depth 8m to 8.5m



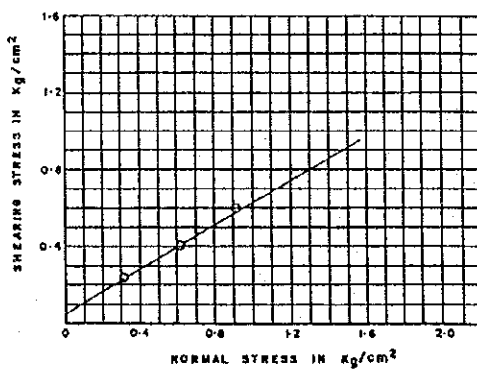
SHEARING ANGLE (degree)	29
COHESION (Kg/cm ²)	0.07

Sample No. U-3 Depth 14m to 14.5m



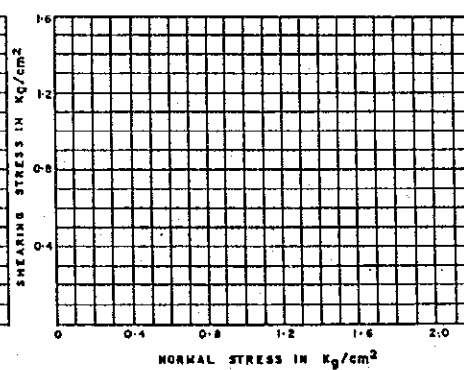
SHEARING ANGLE (degree)	28.5
COHESION (Kg/cm ²)	0.08

Sample No. U-4 Depth 19m to 19.5m



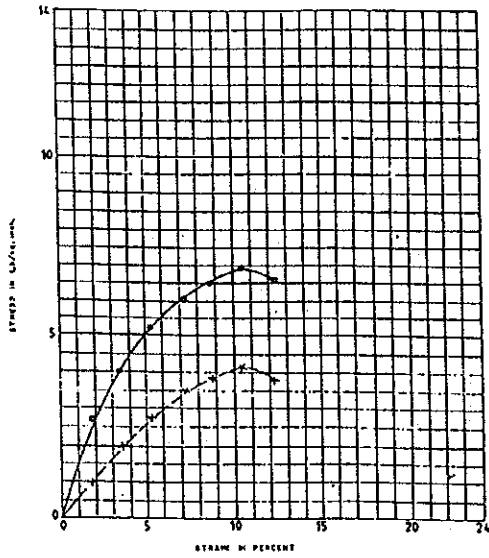
SHEARING ANGLE (degree)	30
COHESION (Kg/cm ²)	0.05

Sample No. Depth to



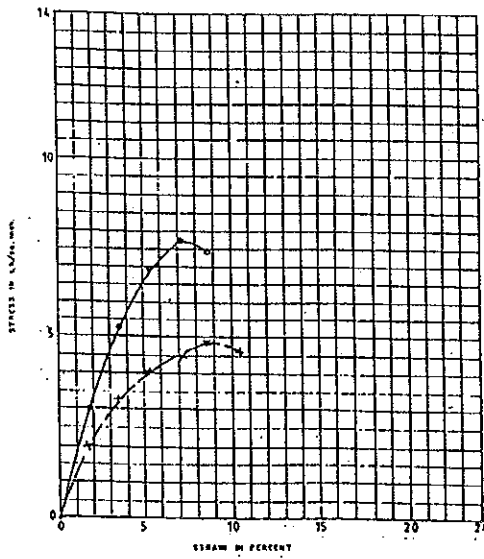
SHEARING ANGLE (degree)	
COHESION (Kg/cm ²)	

SITE NO. III-3



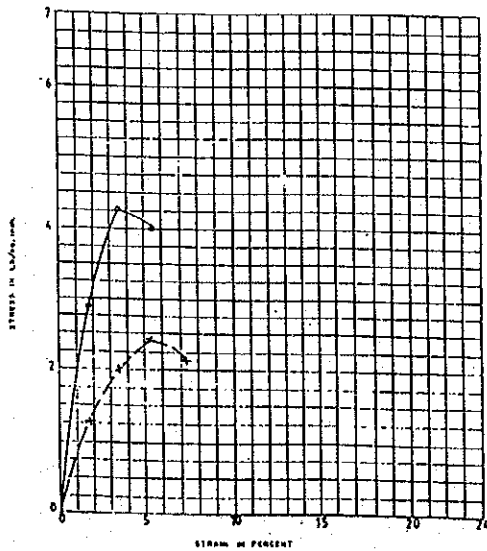
Uncorked compressive strength	0.445
Percent Strain at failure	10.73
Sensitivity	$6.92 / 4.32 = 1.679$
Moisture Content (%)	49.32
Dry Density (lb/cu ft)	72.72
Classification	

Un-disturbed Sample
Remoulded Sample



Uncorked compressive strength	0.502
Percent Strain at failure	8.23
Sensitivity	$7.80 / 4.98 = 1.566$
Moisture Content (%)	31.13
Dry Density (lb/cu ft)	89.99
Classification	

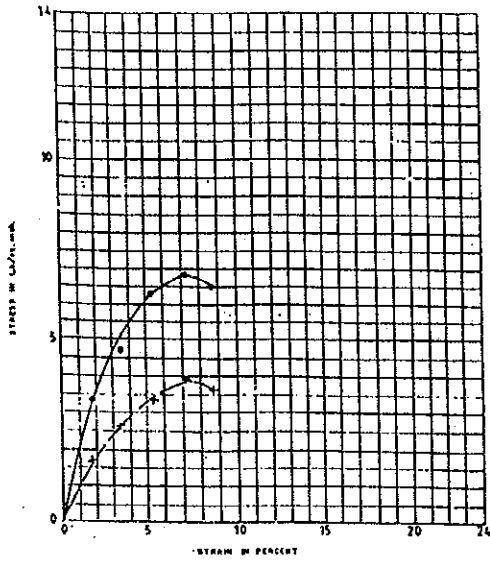
Un-disturbed Sample
Remoulded Sample



Uncorked compressive strength	0.272
Percent Strain at failure	3.53
Sensitivity	$4.25 / 2.30 = 1.85$
Moisture Content (%)	31.50
Dry Density (lb/cu ft)	88.60
Classification	

Un-disturbed Sample
Remoulded Sample

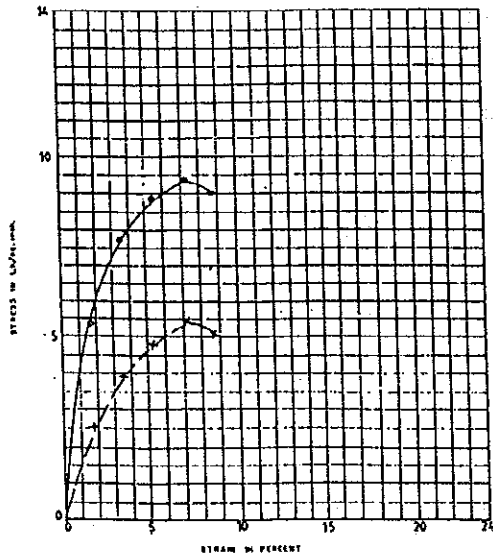
SITE NO. III-3



Unconfined compressive strength	0.439
Percent strain at failure	7.14
Stiffness	$6.83 / 3.90 = 1.751$
Moisture Content (%)	29.61
Dry Density (lb./ft.³)	91.05
Classification	

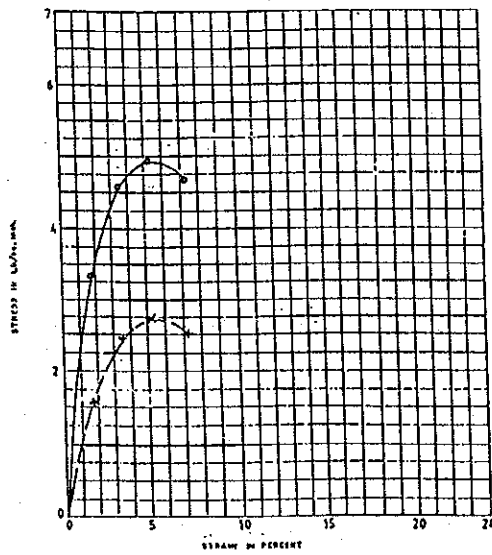
Un-disturbed Sample
 Remoulded Sample

SITE NO. III-4



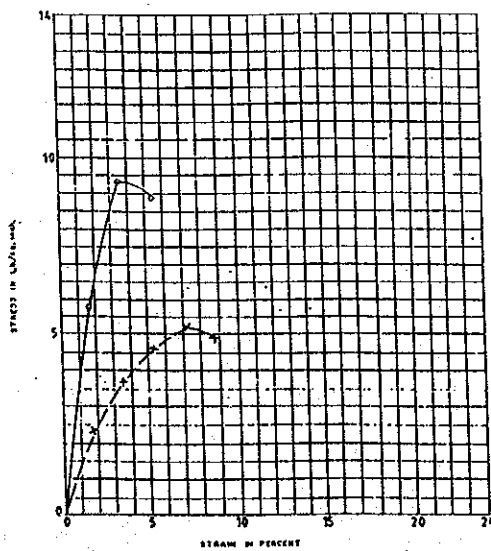
Unconfined compressive strength	0.319
Percent Strain at failure	3.357
Sensitivity	$5.96 / 2.23 = 2.67$
Moisture Content (%)	23.89
Dry Density (lb./ft.³)	99.89
Classification	

Un-disturbed Sample
Remoulded Sample



Unconfined compressive strength	0.602
Percent Strain at failure	7.15
Sensitivity	$9.76 / 5.46 = 1.77$
Moisture Content (%)	26.26
Dry Density (lb./ft.³)	95.91
Classification	

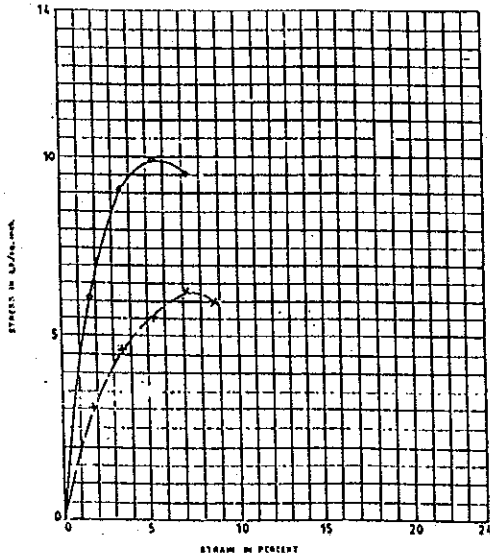
Un-disturbed Sample
Remoulded Sample



Unconfined compressive strength	0.599
Percent Strain at failure	3.510
Sensitivity	$9.31 / 5.28 = 1.76$
Moisture Content (%)	31.37
Dry Density (lb./ft.³)	90.16
Classification	

Un-disturbed Sample
Remoulded Sample

SITE NO. III-4

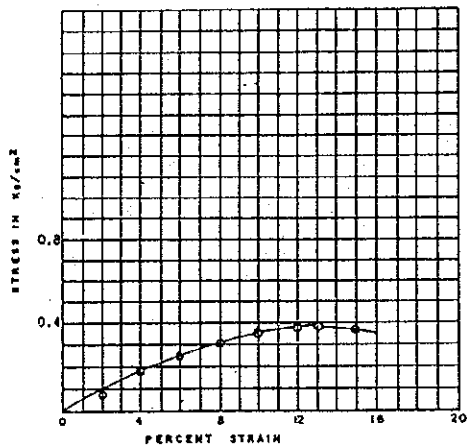


Unconfined compressive strength	0.639
Percent Strain at failure	5.357
Sensitivity	$9.92 / 6.24 = 1.591$
Moisture Content (%)	76.63
Dry Density (g/cc)	94.58
Classification	

Un-disturbed Sample
Remolded Sample

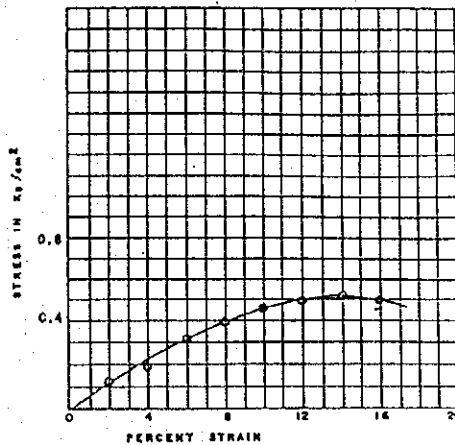
SITE NO. III-5

Sample No. U-1 Depth 3m to 3.5m



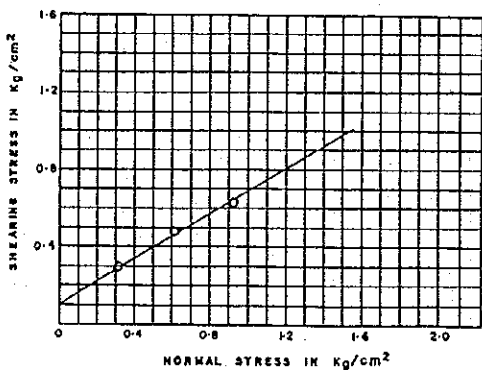
Unconfined compressive strength (kg/cm ²)	0.3954
Percent strain at failure	13
Moisture content (%)	28.56
Dry density (gm/cc)	1.383

Sample No. U-3 Depth 14m to 14.5m



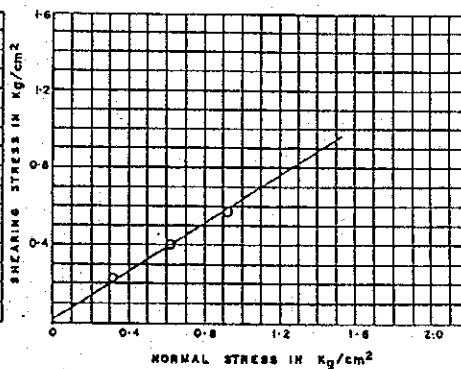
Unconfined compressive strength (kg/cm ²)	0.515
Percent strain at failure	14
Moisture content (%)	26.32
Dry density (gm/cc)	1.449

Sample No. U-2 Depth 8m to 8.5m



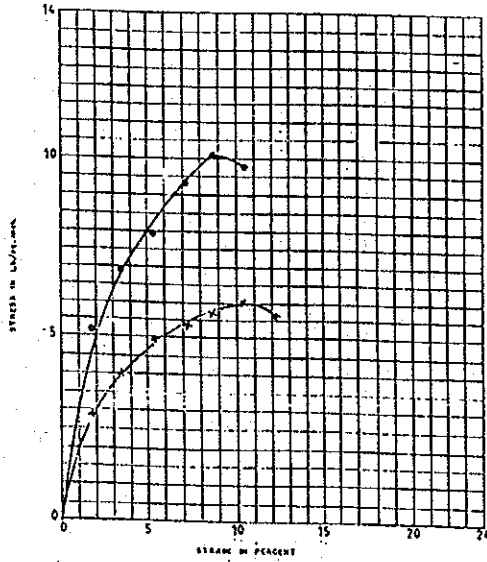
SHEARING ANGLE (degree)	30
COHESION (kg/cm ²)	0.105

Sample No. U-4 Depth 19m to 19.5m



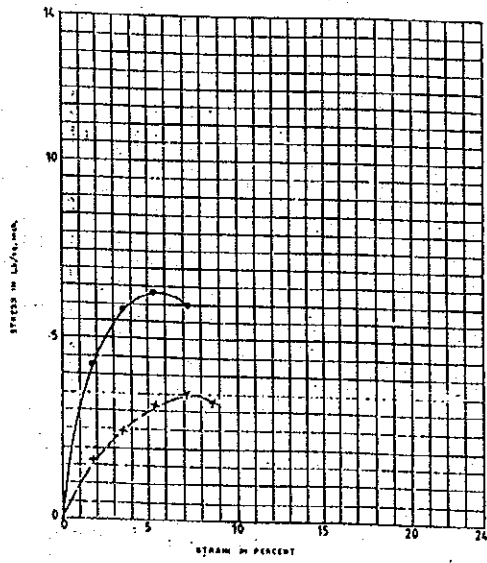
SHEARING ANGLE (degree)	32
COHESION (kg/cm ²)	0.020

SITE NO. III-6



Uncurbed compressive strength	0.654
Percent Shrink at failure	8.928
Sensitivity	$10.56 / 5.99 = 1.698$
Moisture Content (%)	43.49
Dry Density (lb/cu ft)	77.43
Classification	

Un-disturbed Sample
Remoulded Sample

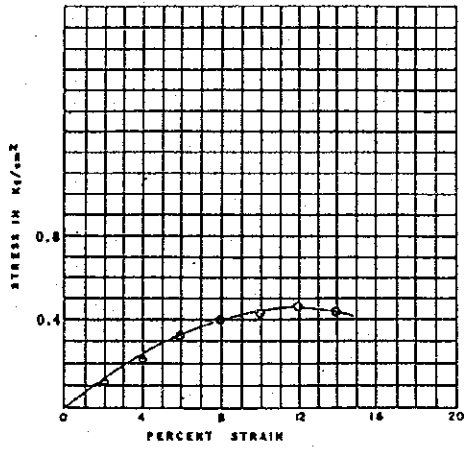


Uncurbed compressive strength	0.409
Percent Shrink at failure	5.357
Sensitivity	$6.26 / 3.51 = 1.811$
Moisture Content (%)	27.73
Dry Density (lb/cu ft)	94.14
Classification	

Un-disturbed Sample
Remoulded Sample

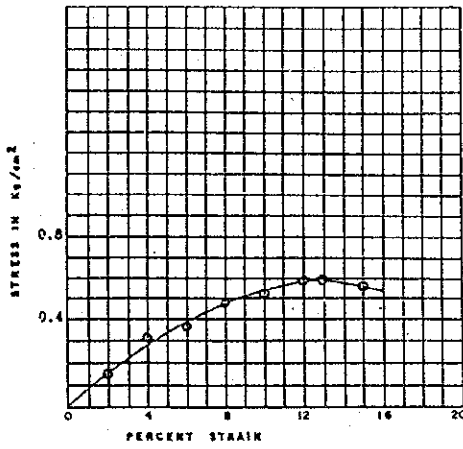
SITE NO. III-7

Sample No. U-1 Depth 3m to 3.5m



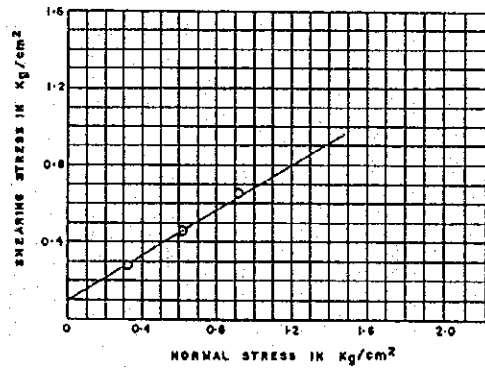
Unconfined compressive strength (Kg/cm ²)	0.4538
Percent strain at failure	12
Moisture content (%)	25.96
Dry density (gm/cc)	1.3972

Sample No. U-3 Depth 14m to 14.5m



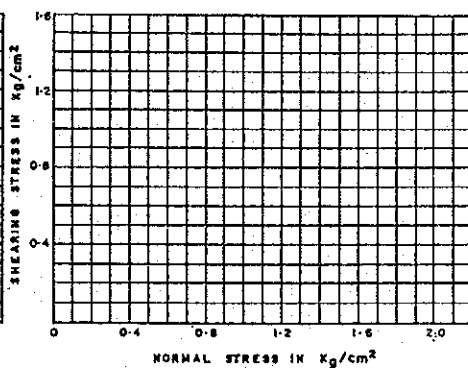
Unconfined compressive strength (Kg/cm ²)	0.594
Percent strain at failure	13
Moisture content (%)	24.76
Dry density (gm/cc)	1.469

Sample No. U-2 Depth 8m to 8.5m



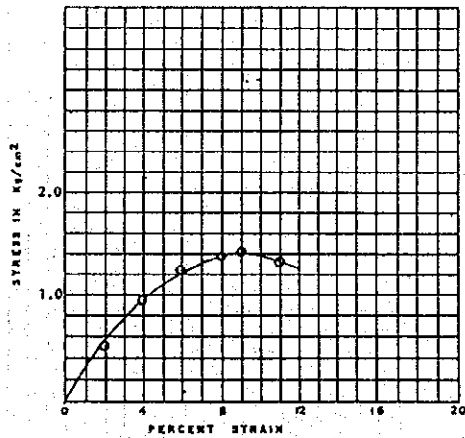
SHEARING ANGLE (degree)	30.5
COHESION (Kg/cm ²)	0.100

Sample No. Depth to



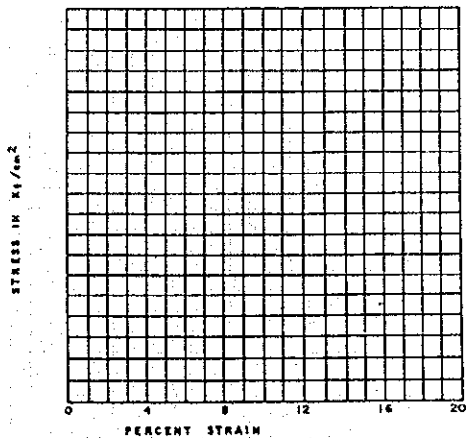
SHEARING ANGLE (degree)	
COHESION (Kg/cm ²)	

Sample No. U-4 Depth 19m to 19.5m



Unconfined compressive strength (Kg/cm ²)	1.423
Percent strain at failure	9
Moisture content (%)	23.42
Dry density (gm/cc)	1.6177

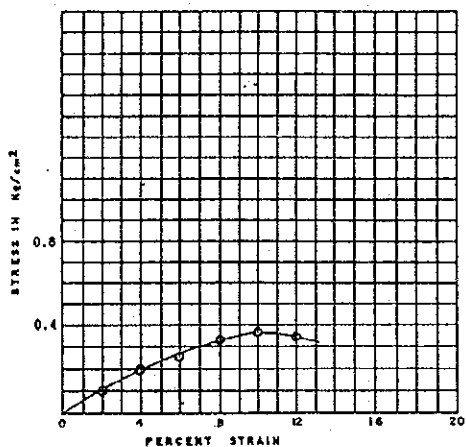
Sample No. Depth to



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

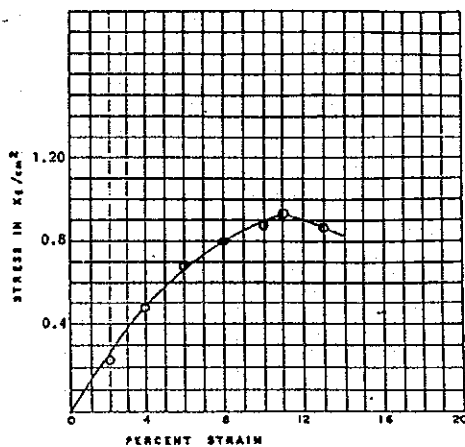
SITE NO. III-8

Sample No. U-1 Depth 3m to 3.5m



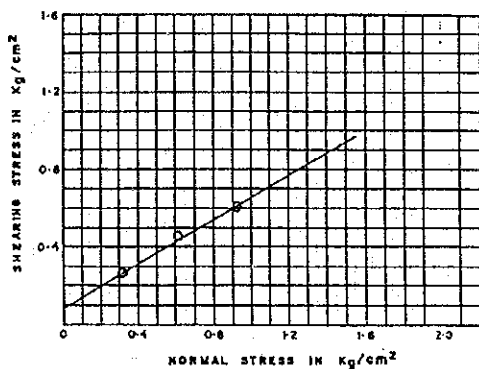
Unconfined compressive strength (Kg/cm ²)	0.3708
Percent strain at failure	12
Moisture content (%)	28.1
Dry density (gm/cc)	1.3485

Sample No. U-3 Depth 14m to 14.5m



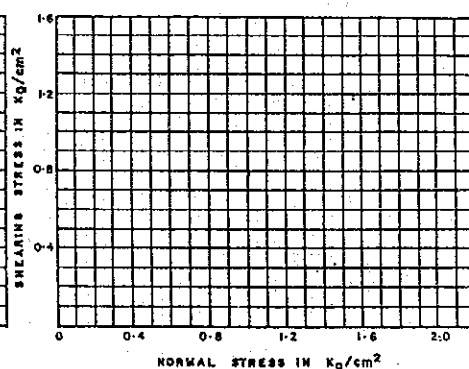
Unconfined compressive strength (Kg/cm ²)	0.9304
Percent strain at failure	11
Moisture content (%)	24.21
Dry density (gm/cc)	1.5578

Sample No. U-2 Depth 8m to 8.5m



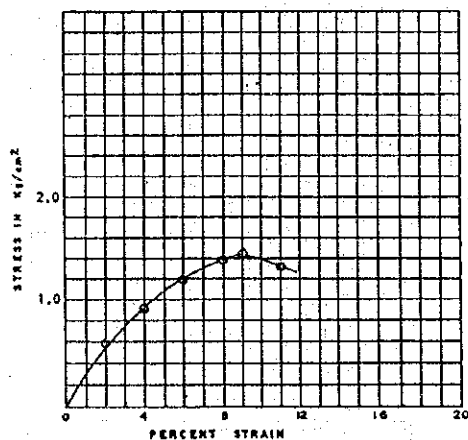
SHEARING ANGLE (degree)	30
COHESION (Kg/cm ²)	0.9

Sample No. Depth to



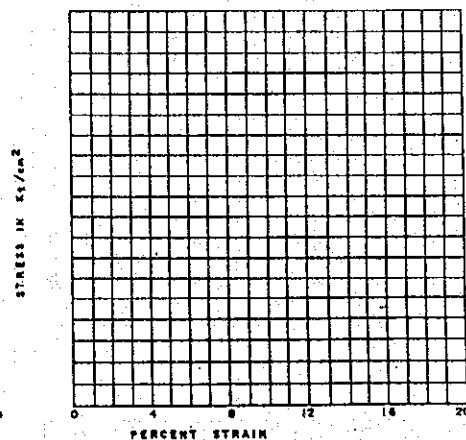
SHEARING ANGLE (degree)	
COHESION (Kg/cm ²)	

Sample No. U-4 Depth 19m to 20m



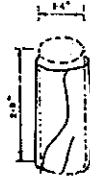
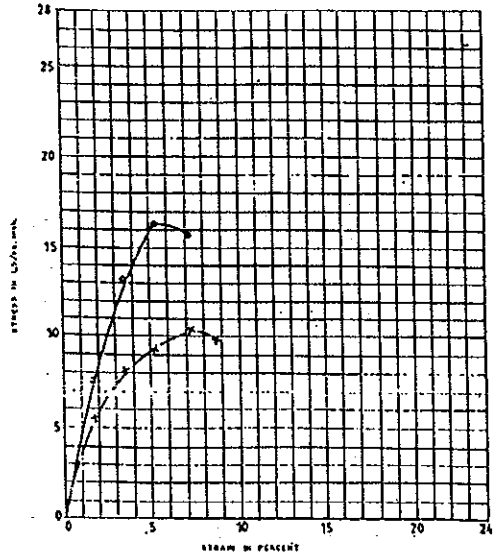
Unconfined compressive strength (Kg/cm ²)	1.4580
Percent strain at failure	9
Moisture content (%)	22.51
Dry density (gm/cc)	1.636

Site No. Sample No. Depth to



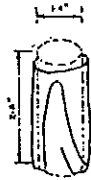
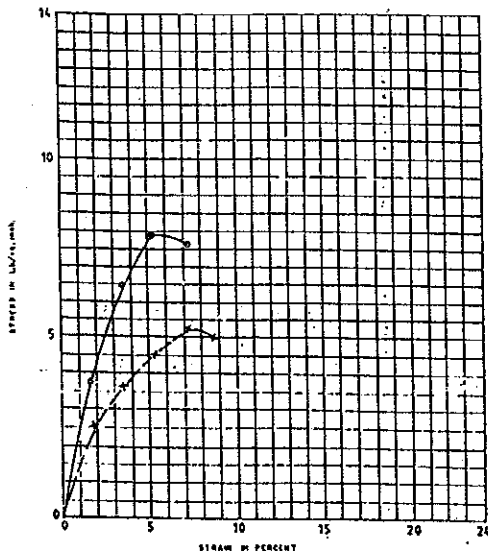
Unconfined compressive strength (Kg/cm ²)	
Percent strain at failure	
Moisture content (%)	
Dry density (gm/cc)	

SITE NO. III-9



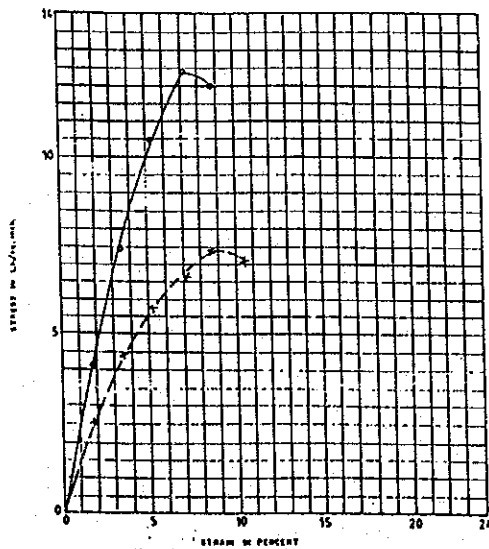
Unconfined compressive strength	1.049
Percent Strain at failure	5.357
Sensitivity	$16.29/10.34 = 1.575$
Moisture Content (%)	36.34
Dry Density (lb./cu.)	85.12
Classification	

Un-disturbed Sample
Remoulded Sample



Unconfined compressive strength	0.511
Percent Strain at failure	5.357
Sensitivity	$7.95/5.26 = 1.511$
Moisture Content (%)	35.04
Dry Density (lb./cu.)	84.24
Classification	

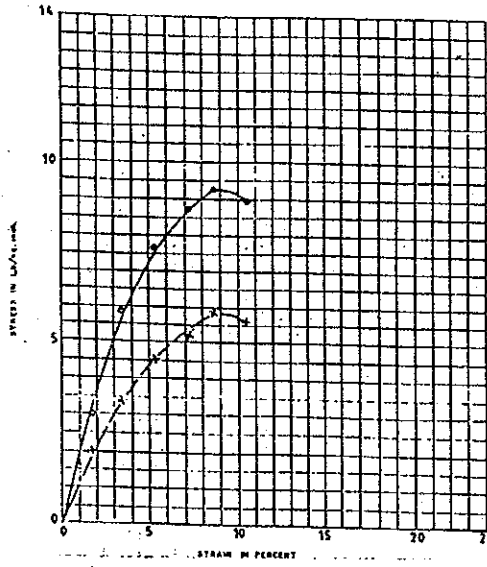
Un-disturbed Sample
Remoulded Sample



Unconfined compressive strength	0.904
Percent Strain at failure	7.14
Sensitivity	$12.49/7.47 = 1.672$
Moisture Content (%)	37.70
Dry Density (lb./cu.)	80.88
Classification	

Un-disturbed Sample
Remoulded Sample

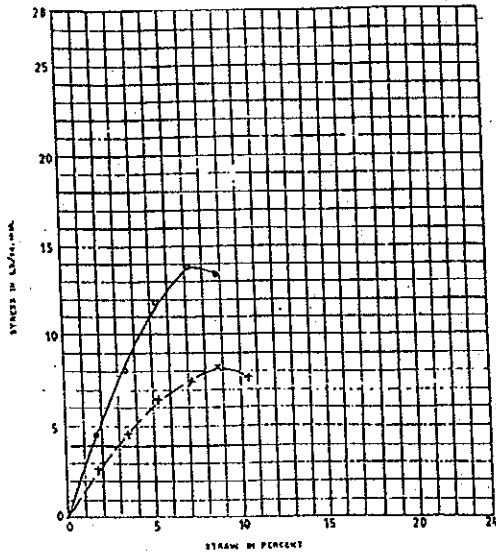
SITE NO. III-9



Unconfined compressive strength	0.60t
Percent strain at failure	8.978
Sensitivity	$9.39/5.95 = 1.580$
Moisture Content (%)	35.10
In-situ Density (lb./cft)	83.09
Classification	

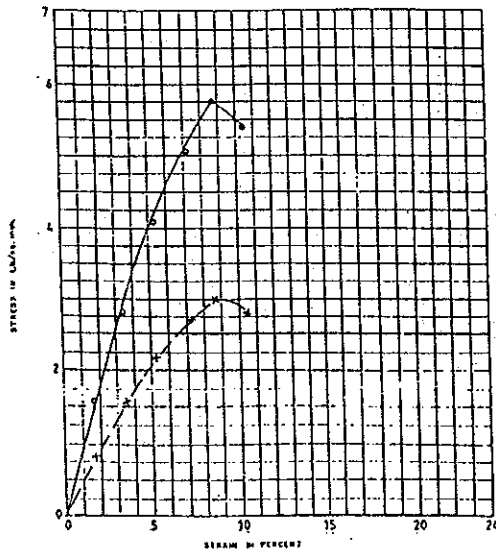
Un-disturbed Sample
 Remoulded Sample

SITE NO. III-10



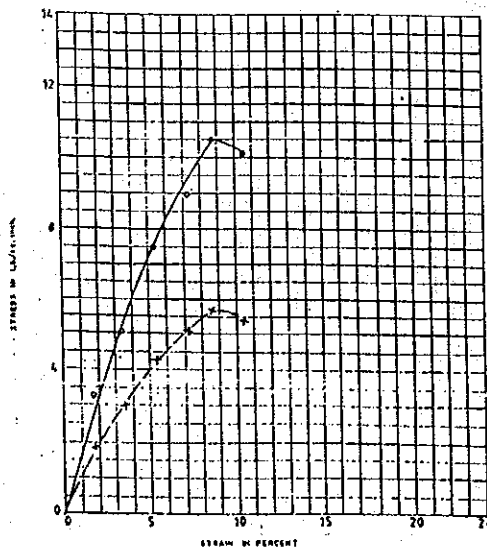
Uncorrected compressive strength	0.891
Percent Shrink at failure	7.14
Sensitivity	$12.85 / 8.25 = 1.560$
Moisture Content (%)	34.67
Dry Density (lb/cft)	86.19
Classification	

Un-disturbed Sample
Remoulded Sample.....



Uncorrected compressive strength	0.37
Percent Shrink at failure	8.928
Sensitivity	$5.75 / 3.05 = 1.885$
Moisture Content (%)	39.68
Dry Density (lb/cft)	83.09
Classification	

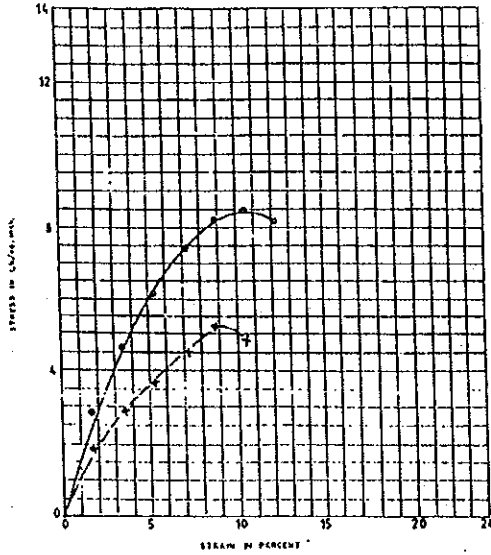
Un-disturbed Sample
Remoulded Sample.....



Uncorrected compressive strength	0.628
Percent Shrink at failure	8.928
Sensitivity	$10.54 / 5.75 = 1.833$
Moisture Content (%)	35.34
Dry Density (lb/cft)	86.19
Classification	

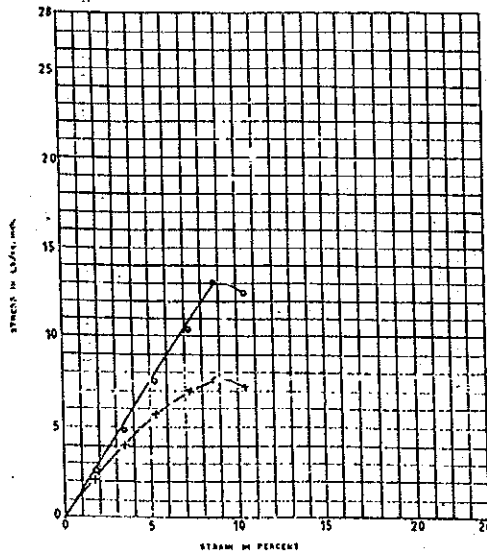
Un-disturbed Sample
Remoulded Sample.....

SITE NO. III-11



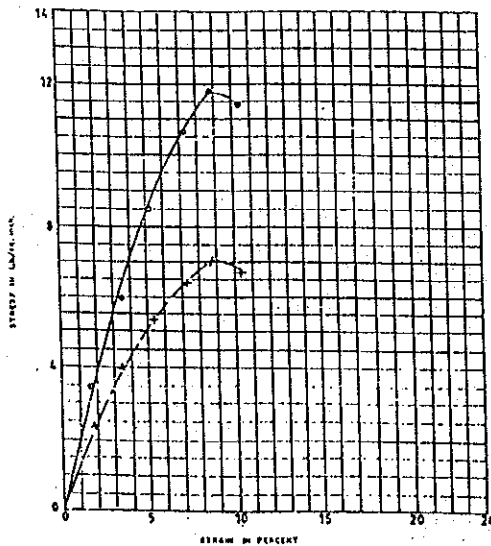
Unconfined compressive strength	0.547
Percent strain at failure	10.714
Sensitivity	$8.47 / 5.37 = 1.678$
Moisture Content (%)	37.91
Dry Density (lb/cft)	85.57
Classification	

Un-disturbed Sample
Remoulded Sample



Unconfined compressive strength	0.839
Percent strain at failure	8.928
Sensitivity	$19.03 / 7.67 = 1.698$
Moisture Content (%)	38.65
Dry Density (lb/cft)	81.15
Classification	

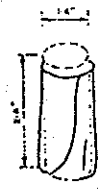
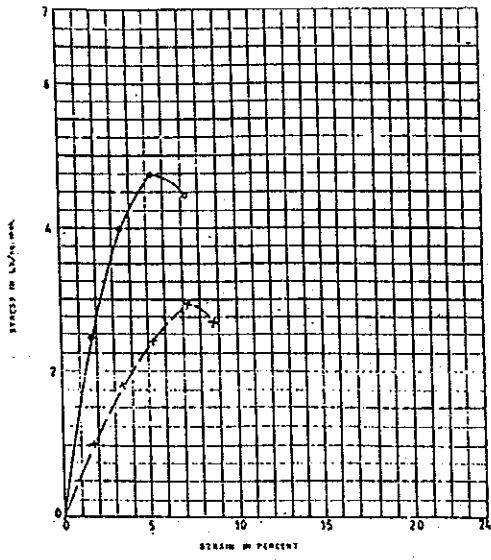
Un-disturbed Sample
Remoulded Sample



Unconfined compressive strength	0.785
Percent strain at failure	8.928
Sensitivity	$71.88 / 7.09 = 1.677$
Moisture Content (%)	37.24
Dry Density (lb/cft)	91.05
Classification	

Un-disturbed Sample
Remoulded Sample

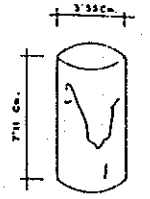
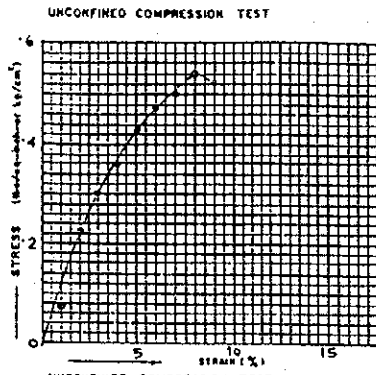
SITE NO. III-11



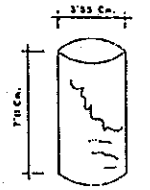
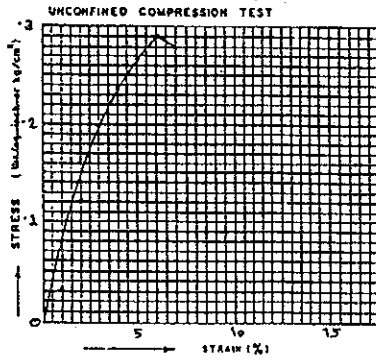
Unconfined compressive strength	0.370
Percent Shrink at failure	5.357
Sensitivity	5.76 / 2.92 = 1.972
Moisture Content (%)	37.50
Dry Density (lb/ft³)	88.40
Classification	

Undisturbed Sample
 Remoulded Sample

SITE NO. III-12



FAILURE SKETCH

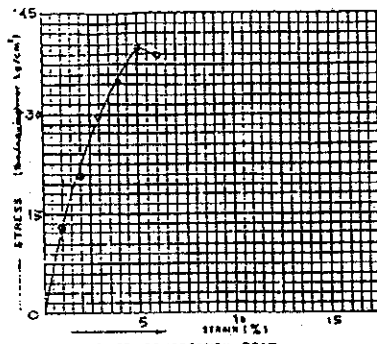


FAILURE SKETCH

SYMBOL	SH. NO.	SAMPLE	DEPTH M/W	$\frac{1}{2}(1+e_0)$	% STRAIN	(WET) ρ_w	(DRY) ρ_s	% MOISTURE
Q-6	1	1	1.30-2M.	0.54	8	1.92	1.41	36.00
Q-6	1	18	18M.	0.29	6	2.01	1.51	33.08

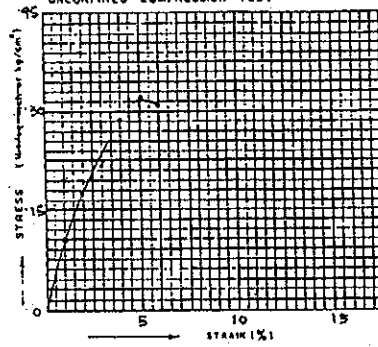
SITE NO. III-13

UNCONFINED COMPRESSION TEST



FAILURE SKETCH

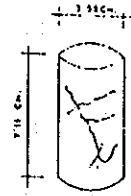
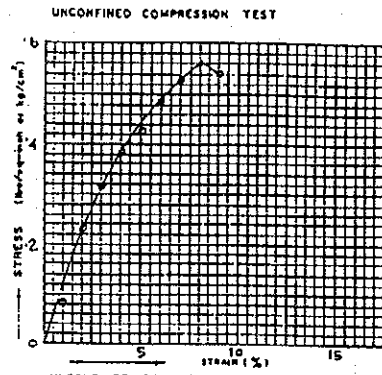
UNCONFINED COMPRESSION TEST



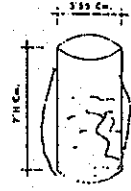
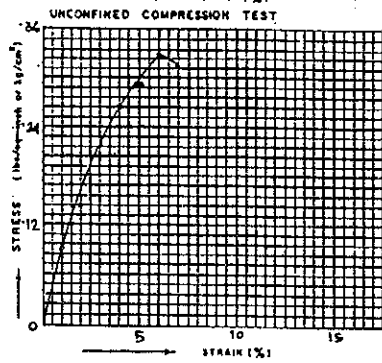
FAILURE SKETCH

SYMBOL	SH. NO.	SAMPLE	DEPTH M/W	q_u (kg/cm ²)	% STRAIN	WET WT (g)	DRY WT (g)	% MOISTURE
○—○	1	1	1M	0.40	5	2.02	1.525	32.40
○—○	1	16	16M.	0.32	5	1.99	1.46	37.17

SITE NO. III-14



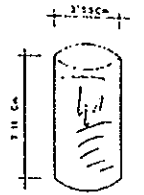
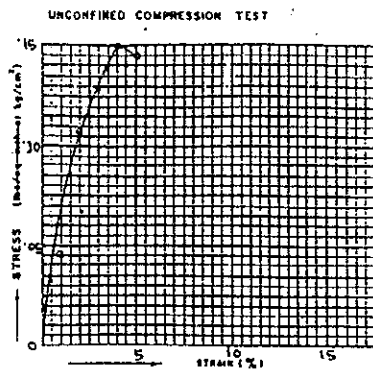
FAILURE SKETCH



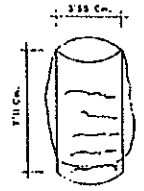
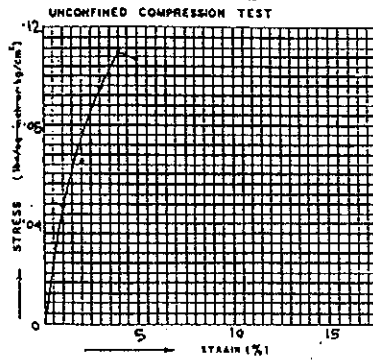
FAILURE SKETCH

SYMBOL	EN. NO.	SAMPLE	DEPTH (ft./m)	$\frac{1}{2} \sigma_1 / \sigma_3$ %	STRAIN	(wet) σ_1	(wet) σ_3	MOISTURE
B-0	1	2	2M	0.56	8	2.01	1.51	32.74
B-0	1	16	16M	0.33	6	1.95	1.46	35.00

SITE NO. III-15



FAILURE SKETCH



FAILURE SKETCH

SYMBOL	DR. NO.	SAMPLE	DEPTH FT/D	γ_d (kg/cm ³)	% STRAIN	WET WT (kg)	DRY WT (kg)	% MOISTURE
Q-4	1	2	2 H.	0.15	4	1.35	1.39	40.81
Q-4	3	17	17 H.	0.11	4	1.02	1.40	36.75

JICA