TSGENCO MANUGURU NATURAL DRAFT COOLING TOWER ENQUIRY TECHNICAL ADDENDUM -1

TECHNICAL SPECIFICATION NO.: PE-TS-411-165-N001 (REV.0)

- 1) Cl. no.1 of Section C3, Specific Technical requirements (Civil): GEO-TECHNICAL INVESTIGATION & FOUNDATION SYSTEM:
 - Pl. find enclosed the Geotechnical investigation and the foundation system for the cooling tower as Annexure-1.
- 2) <u>Section C 1, Specific technical requirements (Mechanical):</u> The subsequent/running pages of this section consists of "Section D" written inadvertently at the top header. The same shall be considered as Section "C" instead of Section "D".



S	SPECIFICATION NO.				
V	VOLUME – II B				
S	SECTION - C SUB-SECTION -				
R	REV.0 DATE13.02.2015				
S	SHEET 1 OF 5				

	SHEET I OF 5
3.00.00	GEO-TECHNICAL INVESTIGATION & FOUNDATION SYSTEM
3.01.01	BHEL is carrying out detailed geo-technical investigation in the proposed cooling tower site. The sub-strata details encountered at bore holes BH-79, 80, 81, 123, 82, 83, 84, 85, 99, 106, 107, 108, 109, 110, 111, & 122 are enclosed as Annexure-1. The geotechnical data attached shall be solely for the purpose of guidance to the bidder. BHEL/owner does not take any responsibility about the accuracy and applicability of the geo-technical data furnished herewith. The onus of correct assessment/interpretation and understanding of the existing sub-strata conditions is on the bidder. Any variation in the data between the one furnished and to that found during execution of the work at site shall not constitute a valid reason in affecting the terms & conditions of this bid and the bidder shall note that nothing extra will be payable on this account. The bidder shall fully satisfy himself about the nature of sub-strata expected to be encountered including the type of foundation, ground water table and construction methodology to be adopted etc. prior to the submission of the bid.
3.01.02	Detailed geo-technical Investigation report shall be made available to the successful bidder during contract engineering stage. If the bidder desires to carry out additional geo-technical investigation he/she may do so with prior information/permission of BHEL/owner at no extra cost to BHEL/owner. No extension in time schedule shall be permitted on this account. The bidder shall obtain approval on the agency for conducting geo-technical investigation work, field and laboratory testing schedule proposed by the bidder etc from BHEL/owner before undertaking the geo-technical investigation work. However, the net safe bearing capacity (SBC) of shallow foundation to be adopted for the design of foundations during detailed engineering shall be limited to the values mentioned elsewhere in the specification and any value of net SBC higher than the one indicated shall not be accepted. However, bidder shall note that the net safe bearing capacity and foundation depth/ safe load carrying capacity of pile to be adopted for design during detailed engineering stage shall be got approved by BHEL/owner.
3.02.00	Foundation System
3.02.01	General Requirements a. All equipments/structures shall be supported on suitable open foundation along with any special requirements/remedial measures/treatment called for subsoil/foundations as approved by BHEL/owner.



SPECIFICATION NO.				
VOLUME – II B				
SECTION -	·C	SUB-SECTION -	ĺ	
REV.0	DAT	E13.02.2015	Ī	
SHEET 2 OF 5			Ī	

- b. All foundations shall be designed in accordance with the provisions of relevant part of latest revision of Indian Standards or as per the technical specification whichever is stringent.
- c. No foundation shall rest on filled up soil./Loose soil
- d. A combination of open and pile foundations shall not be permitted under the same structure.
- e. Foundations shall be designed to resist loading derived from environmental loads including loads due to wave, current, wind or seismic, gravity loads, construction loads, static and moving loads and any other loads as applicable and as specified elsewhere in the specification.
- f. Foundation shall be designed for worst combination of loads as described elsewhere in the specification.
- g. Ground water table shall be considered at finished ground level for design purposes unless specified elsewhere in the specification.
- h. Ordinary Portland cement Grade 53 complying with IS: 12269 shall be used in concrete works for all structures and foundations. For PCC, paving and plinth protection works, OPC Grade 43 shall be used.
- i. Minimum grade of concrete shall be M30

3.02.02 Open foundations

In case shallow/open foundations are adopted then the following shall be strictly adhered to.

- i. Minimum width of foundation shall be 1m.
- ii. Minimum founding level shall be as mentioned in Table-1.
- iii. The net safe bearing capacity (SBC) of shallow/open foundations at different founding level shall be limited to the values as mentioned in the following Table-1 and any



	SPECIFICATION NO.			
	VOLUME – II B			
SECTION - C SUB-SECTION -				l
	REV.0	DAT	E13.02.2015	Ī
	SHEET 3 OF 5			

value of net SBC higher than the one indicated shall not be accepted. However, bidder shall note that the net safe bearing capacity and depth of foundation to be adopted for design during detailed engineering stage shall be got approved by BHEL/owner.

Table-1

a) Net Safe Bearing Capacity for cooling Tower 3&4

Unit	Type of Foundation	Founding Level (m)	Net Safe Bearing ca- pacity (T/sq.m)	Finished Ground Level (FGL) (m)	Remarks			
1	Isolated/Raft	(+)69.000	15					
2	Isolated/Raft	(+)68.000	20		Mississon			
3	Isolated/Raft	(+)67.000	25	R.L (+)71.000 M	Minimum founding level shall be RL(+)69.000 M			
4	Isolated/Raft	(+)66.000	30					
5	Isolated/Raft	(+)65.000	40					



SPECIFICATION NO.				
VOLUME – II B				
SECTION -	· C	SUB-SECTION -		
REV.0	DAT	E13.02.2015		
SHEET 4 OF 5				

b) Net Safe Bearing Capacity for cooling tower 1&2

Unit	Type of Foundation	Founding Level (m)	Net Safe Bearing ca- pacity (T/sq.m)	Finished Ground Level (FGL) (m)	Remarks
1	Isolated/Raft	(+)67.000	15		
2	Isolated/Raft	(+)66.000	20		Minimum
3	Isolated/Raft	(+)65.000	30	R.L (+)69.000	founding level shall be RL(+)67.000 M
4	Isolated/Raft	(+)64.000	35		
5	Isolated/Raft	(+)63.000	40		

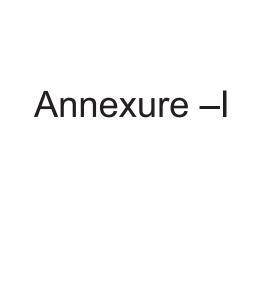
- iv. It shall be ensured that all foundations of a particular structure/building/equipment shall rest on one bearing stratum.
- v. The permissible settlement as mentioned under para "permissible settlement of foundations" or permissible settlement from functional requirement whichever is more stringent shall be adopted for the design.
- vi. The permissible total settlement and differential settlement of foundation resting on soil mass shall be governed by IS: 1904 and from functional requirements whichever is more



SPECIFICA	SPECIFICATION NO.			
VOLUME – II B				
SECTION	- C	SUB-SECTION -		
REV.0 DATE13.02.2015				
SHEET 5 OF 5				

stringent. Unless otherwise mentioned, the total settlement of cooling tower foundation resting on soil shall be restricted to 25mm.

- vii. Analysis and proportioning of footings to minimize differential settlements shall be carried out for all major foundations and the same shall be submitted for BHEL/owner's approval.
- viii. In case any soft soil/loose stratum is met with at the founding level or below during execution, the same shall be completely removed and filled back with PCC 1(cement):3(sand):6(stone aggregates) up to desired foundation level.
- ix. Expansive soil shall not be used for filling/back filling around foundation.
- x. No foundation shall be resting on expansive soil.



1-10080, 89 cuot prulos)

Term. Depth : 80 .on

PP : .ON .H.8

3591 : ON dot

Doc. No. : FD/G/09/01

NAGADI CONSULTANTS PRIVATE LIMITED

DELHI - BANGALORE - CHENNAI - SECUNDERABAD



RECORD OF BORING

the state of the s	and the second second	THE RESERVE OF THE PARTY OF THE	windstance of the state			
BS. Disturbed; UDS, Undisturbed Ste-in-Charge						
Liebisch				*		
				11960		
				9.1		
	-0					
- 19 - 1/0	9일일	198	00.00			
-05-21/09		-00	/			
	75/5	108	05-41	P/B shell with slowe		
-051/LS	6 5	200	/	- 719 Mr. M. 10 119		
1	芸等学	1.85	05.11			
-55-52 EP	3.8 311	1				
W.7		. S. 6	011			
100 Jots	至,05万	113	01.81	Pinking basen sand stine with shell		
1 400 - 12	= 1 8 5		0511	- 90		
MENO-82	ALL DE STORY		05-11	00		
Muz.0-95			01.01	such and forth deline		
MGS-0-90			05.8			
			- T	Hall Hist will show things of Nillian		
		. रहरा	an.L	Had Alisa male know Willer Askits		
			05.9			
· mo		. 2.G	05.9			
571 - NI	話長高高	1.85	01.9	- ap-		
50/88 = N	7 2 2 8					
	-0	. 2-6	08.5			
12 = N 1	78	108	07.5/	Reddish Brown w. Soule (Shell)		
	1171		/	("		
CP-0-10M		HARRIS AND	25.4			
		2000	61.4)	heddish brown weathered Rock		
		9 4111				
		. €.€	3.20	Danney Mia gols will of a /1/4		
				House M. A Ho area a by Ma		
10 = N	8 3 3 6 2 8	792.6	0.8/			
10	272200	.5.0	05.8			
		100	200	allo		
		UDS.	(on. 6)	No mer Mia gods withig /d/Y		
				1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		
1		. 2. 6	05-1	9		
	b. C P. T. P. T	188	01.1			
II = N	台灣學學		1	0. 0		
	0,10	.2.6	05-0	D. Borowing cloury with sith yourell		
	PRODUCTION OF THE PROPERTY OF	Sample Q	(w)	uondusead ilos		
Seil Description Depth SPT / N - Value Remarks						
Equipment Calix Nearest Location: Cooking Tower Area (1)						
B.H. Co-ordinates 19927784, U71932E Size of B.H. Loomun Water Table						
Started 25 1115 Time 6.15AM. Completed 23 101115 Time 5.10 P.M						
Project HX270 MW T.S. GENCO, Manugusy, T. BS.						

DECHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED Doc. No.: FD/G/09/01

: .oN dol

B.H. No. : 84

					41,12 4	BID 6.10	
Kemarks	N - Value	Semple Q	Depth (m)	Soil Description			
(1) balt %	Equipment Volt 90(y) Nearest Location: Cocking Tower Area (1)						
	B.H. Co-ordinates 1992810 N. U31798 Size of B.H. 150 mm. Water Table						
	Started 5/0/115 Time 4.00.M Completed 15/0/119 Time 5.00 P.M						
Project RHEE Power Hand TIS. GENCOMANING							
NAGADI RECORD OF BORING Term. Depth :							
· • • • • • • • • • • • • • • • • • • •		Jitido	u uo	adobad	THE WAY	(T)	

Client * DS. Disturbed; UDS, Undisturbed Site-in-Charge					
		50	.5-8	32	
115,	1 -1 1	son	0-8	9	
N= 46/131	t-71/94	30	-5-6		
311 31 31 31	124	145	0.1	P	
		.50	5.9		
		son	.20-9		
				No.	
06=N.		-20	05.5		
05 04 01	(06)	105	8.00.	peddish sheet under weathered	
h? 119 119				borollogue roberill of	
		so	S-h	Roddish alay silt with gr	
		san	(0.h)	eg Him this pold isumord isibboat	
t7 = N		20	3.5.	Eg thin this your sitt go	
97 17 9	(12)	145	.02	8 strin the years away	
N. Carlo		. 80	-8-6		
		. 500	(3-0)	Aris y band soul & sitt.	
P1=19		.90	.5-1	b	
71 L S	61)	105	001	b	
		so	05.0		
				Blo clay silt	
Remarks	eulsV - V	Sample Q	Depth (m)	Soil Description	
Equipment Volt 90(X) Nearest Location: Ceeking Tower Area (1)					

	bodant	siball 201	1 . bodanto	!u 3u*
-SE , 09 11E	1.01/SP=H	ids	30-0	Congrish Reddish, weathered noch
99 70	4-11/ =N	SO	.0-62	Reddish weathered noch.
311 1/1/1	4-11/001	192	05-LE	Chroyish Reddis weatherd
AT-		.50	76.00	
		.san	05-hC	9.
67 100	4-11/	50	0-17	
11E 11E	1501 =N	145	0.22	× .
		≥ 50	37-0	X
9.7	1.01/8 = N	-20	0-16	Reddish weatherd roch.
75 (76		143	0-02	
	±-21/98 = N	.so	.0-61	
718 128 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	192 (M & D . D	AD	0181	Grayist/y & Reddish weatherd rock.
	·Wah.9	CR.	.0L-91	4300 perfect 1:-11
	W 65.0	ck.	15.20	
	.M .88.0	CR.	9-h1	Grogist peddist weatherd rock
09 1 00 112 12.	ticy =N	192	15-0	
A THE TRACTION OF	10	DS.	.5-01	121411多 200 多为成
		- 500	0-01	who seeddish weathered roch
-0 sh ob 18 . S	1.01/	-20	.S-b	
11 11 11 11 11 11 11 11 11 11 11 11 11	1.01/2=VI	192	.0.6	G/ Reddish weatheredrock (shell)
Term Depth :	B.H. No. :		: ON do	Continuation Sheet

*DS. Disturbed; UDS, Undisturbed

7.8. Dans Nogerli Gensulante Site-in-Charge Client

Cooping 10000 ason -2

Term. Depth : 20.10

3591 : ON GOL

Doc. No.: FD/G/09/01

13 : ON .H.8

NAGADI CONSULTÁNTS PRIVATE LIMITED

DELHI - BANGALORE - CHENNAI - SECUNDERABAD



RECORD OF BORING

			1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1	
pod Coverifical	bed bedin	DS, Undist	U ; bedruta	111 1111
711/59	一学,略	198	on. Lit	Looging to medding is nock (suell)
13/		.2.6	01.91	- ap-
		. 2.6	91.51	Reddush to Rocke (shell)
3/2/58	8h 108,51	1.08	m.nl	RI-414 Brownish w. Bock (shell)
		. S. A	01.81	- ob-
		. 5.4	01.61	Reddush Boron w. Rock Cahell)
-L1/68	न्द्र रहाडी	198	01.11	Male Generalish w. Rolle (Shell)
		2.6	00.01	
		.260	52.6	Boegs shall a Reddush w. Rocke
		.2.B	on 6	Reddush to mover to Rocke (Shell)
1/2 1= N	05/5E/88/71	798	01.8	ap
/= 0		. 2.5	ark	- op
		.800	05.9	hoddishe gogs sy w. Rock
		.8.d	01.9	responded to Rock
£15/901	38.38/2/4/8	LdS	01.5	Books of good on he house
13	8 11 0 0 0	. 2.€	osin	Some of herman
		200	00-17	graphong Roddish w. Rock
		.5.G	05.8	Reddush weathered Boul
28	15,88,31,11,15,5 8,88,31,11,15,5	108	01.8	Book she heddish washered bolk
0		P2.	9.20	ob usubbusa
		.891	(D.E)	sponse from hop files ysmoner
		· 2.0	05.1	op
9- 95	일일을 등등	198	01.1	g
		.2.A	05.0	mayo fixes yemonely . a
Kemarks	N - Value	9 elqms2	Depth (m)	Soil Description
र भग्रस्य (म)	agios guidos :	Location	Nearest	Equipment Interpoly)
	volum . Water	of B.H. 14	DE Size	B.H. Co-ordinates 199 2770 M, 47189
M. 9 co. 1 smil		Complete		
A STATE OF THE PARTY OF	29 T , Haup	upm , a	BENC	Project hxalo MW TS

4-80/12.4 405 00.00 Bougest & Reddels to Buck (Shell) PP. 01.61 .8-Q 01.81 Reddisy w. Rock (shell) Term Depth: B.H. No. : : .oN dol Continuation Sheet 3

*DS. Disturbed; UDS, Undisturbed

Client

alalis Como G

Magadi Gensultanks Site-in-Charge

I. J. Bana

Doc. No.: FD/G/09/01

9591: ON GOT

Nagladi Cansulland Site-in-Charge

NAGADI CONSULTANTS PRIVATE LIMITED



Client

Reddish weathered Bode (Shell) 13.50

DECHI - BANGALORE - CHENNAI - SECUNDERABAD

-501/98	一学管	198	05.61	Restersy weathered Bode (Shell)			
		D.S.	00.61				
78	76,08,61,41,21.8	1.08	11.00	Reddird weathward Rode (Shell)			
		.2.G	05.01	Brownsh weathered Rock			
		.2du	05.6	ab			
		. 2.Q	000	Reddels sy to Bocke (Shell)			
78	E. E	108	01.8	Boeyish of addish was ach (Shell)			
		· S·@	05.L	op			
		.244	(05-9	orp —			
1.0		P. 2.	01.9	Reddush to Rock (shell)			
Sample stibed	राम्याम् हार्थि	148	01.5				
		.2.4	05.4	Brown 84 w. Beck			
		UDS.	(on.n)	John w Mason w Realk			
		D.2.	3.50	Bancomen sally cloy with sand			
75	といるとから	108	3.10	Propo Promos Glis namonaeg 48. Hoek			
		.2.6	2.50	Bops homes figures he in singel			
		.280	3.10	Boby phones will sally sounded they sally sounded			
		. E.A	05.1	किन्न मिनि भडमान व्यक्त			
16	इंडिएरेडिक	798	on.	Puddish, powered silly clay with ground			
		.2.C	050	Stanker of in the Hand of G			
Remarks	eulsV - V	SPT / Sample Q	Depth (m)	Soil Description			
	Equipment Nolt 35(D) Nearest Location: Cooking Lower Area (2)						
				B.H. Co-ordinates 1992965 N, 4719			
Fime 530.8.M		0		Started 25 lolls Time U.			
MA	SOI han	Manual.	ENCO	Project LIX270 MW 7.8. G			
m. Depth : 15 w		OKING	OE B	NAGADI RECORD			
1. No.: 82	1.8		124				

*DS. Disturbed; UDS, Undisturbed

188

· 50

D.8.

108

01.51

05.41

05.21

DELHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED Doc. No. : FD/G/09/01

RECORD OF BORING

(4) walth to an	dinates 1992 W. None of B.H. Location : Cooking To	Equipmen
ater Table	W WOLL H. A TO SIZE SIZE W MOST PER I Setsnib	B.H. Co-on
M.905.2 SMIT	25701115 Time 4.200.M. Completed 88101115	Started
2	4x270 MIW T.S. BENCO, MANUALISH, TP	Project_
Term. Depth : 20.00	KECOKD OF BORING	[IDABAN]

B.H. No.: 83 85 91 : . ON dol

	The second secon	The same of the sa				
* DS. Disturbed ; UDS, Undisturbed Aggad Contuction. Client Ste-in-Charge						
"我不是是		. 2. C	01.81	Reddigu is: Rock (Shale)		
5	98	108	01.61	B/Y/B/ Maer wo Bock		
60/6.25	70	.2.d	0.91	op		
		. 2.6	0.91	Reddish to Boll (Shele)		
P8/15-25	을 12	405	01.11	Y gold : Sh w. Bock (Shale)		
		.c.a	01.81	op-		
		.2.d	00.81	op		
1/6/2000	0일 /인가 / 3년 등	+48	01:4	- ab-		
1		. 2.Œ	01.01	Reddrish w. Rock (Shale)		
		500	05.6	Glowddown wo Rock (Shale)		
		· 5.4	01.6	- op-		
~61/28	學學	192	00.8	ab -		
30.1	,, ,	.2.Q	05.6	- op-		
		.140	05.9	Reddogh weathered Hock (Shale)		
72/30cm	으는 문 분 등	+92	01.5			
102		.1.℃	05.4	Reddish weathered Rock Canal		
		200	00.4	Rhoroeu silly day with yoursells		
		D.1.	3.20	op		
(85)	는 경신 신입을	798	0.2	~ ~ ~ ~ ~		
		. 2.6	05.8	- 00		
		UD3.	00.6	Bouse of the sandy clays in good		
		.2.4	05.1	01110		
(17)	रेश्वा है। है। है।	105	on.	Berne B. Ala gold clay with Bondels		
		.2.G	05.0	D. Brownich Siltwirk clay		
Ветагка	9ulsV - V	Sample Q	Depth (m)	Soil Description		

F. S. Bang gody Ceneral Taylo site-in-Charge	Degun	DS, Undist	O' paginis		Client
10 July 2000 - 10 Jul	poqui	toiball 20	Tr. poquit	sid su _*	Silva N
RECORDED TO ME		151.10	8-7 7-NA		
		73-77	0.8		
Cardista provide	(1) (S) (S) (S)	110,100	264		
ACTION OF THE PERSON OF T	- (STOK)	2 50 E	Test Type		
			13/7		
in the safe to confine a			81.4.5	A	
Microsoft Control	neskara.		93/		
		(3.35 (3) 25			
		7-220 C) -23			
n Gameria e	TIN SEC.				
	200			Scott Edde.	Fre (1)
57.11/59	Name of the second		**************************************		230.40
	一型型	.2.d	0.08		Reddien w. Rol
Term Depth :	B.H. No.:	PWS PF	: .oN dol		Continuation Sheet

Model so he de de la se
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M80.1-80 CL 01.66 OP
M L 8:0-20 85 09:16 TO 09:16 WON 90 HOS NSIRAER OP
monio-80 - CC - 01.96 Dood flor usikaek
oshe
2.6 w.ug - ob
Doed such presumed to scott (Shalle)
TP. 51 /201 2 20 8. 86 ab
01/50) S.G 01.18
2016 N 01/501 - 501 38 1d8 01.08 op
GDORG - WALL OF VALUE OF A VALUE
51/701.
T 117 0 117 0 117 0 117 0 117 0 117 0 117 0
4/ browner, had sandy soil with gravely 15:50 8PT \$ 12:51 101) 15
Continuation Sheet Job No.: 1658 B.H. No.: 84 Term Depth:

'DS. Disturbed; UDS, Undisturbed

T. S. Bana Hagadi Censullanli Site-in-Charge

(8)

Client

5591: ON dol Doc. No. : FD/G/09/0

Magadi Consultant

1.5 tamos.

201, 501 < N

1/201 201 < N

NAGADI CONSULTANTS PRIVATE LIMITED



Client

hamorag

1.45 Rong bylis 48 monarcy

Slavered in to be shown plin is in a source

Spragges sounds son cother granted

DELHI - BANGALORE - CHENNAI - SECUNDERABAD

2012 N	〒 万	20.	- 1.	Slarge de la Contra del la contra de la contra del la contra del la contra de la contra del la contra de la contra del la con	L
		· 2.4	00.01	1.0 10 1110	
14P 0015H	क्ट्रास्ट्रिस	105	05.6	रिक्तित्याल द्राप्त हिताति हता मिला में मिला में	
180		.2.d	01.6	हिस्तिवरा द्या कार्षि दिवारवध्य अला	
401001KN	5510515G	.200	01.8	tras phones words is whole probleman	
		D.S.	01.6	Reddish sondy Soil	
12/001 201KN	等等等	1d8	05.9		
W/Z/W	75 7 3	D3.	0.9	कार्मिक्ष के व्यवविधिक्ष क जिल्वी	
7.5			01.5	इस्कामावद मुहम्मा के पहारित्रहरू	
X21522	86/15/55	192	01.5	whilesh, greyish preddin weathered hed	
		. S.C	05.7	ונים לשוים וצורים שמסוסות לביות בניות ביות ו	
8.8 98	95 48	105	3.60	1:08 hours us moraces & us mayor	
		. S.a	05.8		
PZ:4#	-51171181	200	3.10	- do	
more kendining		D.S.	05.8	- op	
P 2=0	ET,91181	118	9.10	Sandy silly clay with Bowell	
		54	05.1	op	
28-4	号号号	900	00.1	from files namonaequ	
		. S. C	05.0	frozz ysmonaes	
Kemarks	eulsV - V	9 elqms2	Depth (m)	Soil Description	
	IT gailos :			Equipment Voll-35 (5)	
				B.H. Co-ordinates 1992 810 10 JA1793	
				Started 3 op 15 Time 10	
4 6	29T neugun	10, Mai	GENC	Project UX 370 MW TS	
rm. Depth : So w	eT E	OKING	OEB	NAGADI RECORD	1.80
48 : ON .H	1.8				

*DS. Disturbed; UDS, Undisturbed

01.51

01.41

05.81

05.81

01.61

01.11

· 5.9

· sen

8.9

.8ª

500

58 : ON H'8 85 91 : ON dol DELHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED Doc. No.: FD/G/09/01



RECORD OF BORING

Time 6.15 P.n	5111016	d 26/01/15 Time 10.00 M. Completed 29	Starte
	29T.	ect HX270, MW 7.5. GENCO, MANIGUEL	Proje
Term. Depth: 20.00		KECOKD OF BOKING	SAN

Client Charge ; UDS, Undisturbed Site-in-Charge						
		Part Table	1 S. 11 S. 1	Siliate fre		
M84-0-A2	-		01.08			
MPE.0-10			00.61	(11045) apost 4 for us uppose & usubios		
M18.0-8	-		95.71	- op		
MEE-0-82	-	-	01.91	Reddish soft Bode (Shell)		
		.2.4	01.41			
	一年 等	148	01.81			
d.3/55cm	1 1 10 1	.S.Q	13.00	op		
		. 2.a	00.11			
80 5000	-25 -25 186	148	01.01	ap		
		. 2. C	00.6	op		
75/111	E > E E E	188	0.8	- ap-		
/711	五, 2000	. 8.Q	05.6			
		200	05.9	Readish weathered Bock (Shell)		
52	とうとうないない	105	01.5	2 lounest alia chay with gone 15		
	11 11 11 11 11 11	. 2.4	05.4			
		.240	01.17	किका मिलाक्ष है। कि प्रमाण दिवासी		
		. 2. d	05.8	ap		
23 2	是智智學者	115	01.8	op		
		B.S.	05.8			
		. 24.0	00.8	Boowner ally clay with gravel		
		.2.€	05.1	op		
7Z	子名を	192	0.1	op		
		. 2. C	05.0	Bosowing Solt with clay		
Remarks	9ulsV - V	9 Sample Q	Depth (m)	Soil Description		
(2) malls	sound guidas :	t Location	_ Neares	Equipment Calix		
- Sable	Water Water	H.8 10	ezis 390	B.H. Co-ordinates 19928784, u7177		
Time 6.15 P.n	711101PB b	Complete	W. Van.	Started 26/01/15 Time 10		
	The state of the s	The second secon				

3571: ON dol Doc. No.: FD/G/09/01

Agran Charge

CR - 0.50M

DECHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED



Client

Reddigh w. Rock (Shell)

Bachish + Reddish sett Rock

			THE RESERVE OF THE PERSON NAMED IN	
			19.20	
		.2.4	00.61	Redolven to Rock (Sholl)
1.11/28	3号:	792	01.11	Boefish a Reddish is Bock (Shell)
2-11/28		. 2.6	01.01	ap
		. Z. d	01.6	Reddugh to Rock (Shell)
0=1101	空學學	192	m.8	Bachisha addish us hoch (Shale)
02/101		. 5.0	05.L	op
		200	05.9	Reddien to Rock (shell)
		-5.Q	01.9	op-
为 / 拉拉	上层 古是 图 5	1.05	01.5	ор-
		.८५०	01.17	goddisua Hreysan w. Back
		. 2. d	05.8	Yoursel Asieucia work
(3)	05,88,81	108	3.00	Boest sua followish Boown to Bock
(25)		P-9.	02.6	op
		.201	3.10	Church Alter Good house American 6/4/8
		2.4	05.1	
(26)	到回号·号	198	01.1	opp
		S-Q	05.0	-14224101 Good cloud colling
Remarks	eulsV - N	SpT / Sample Q	Depth (m)	Soil Description
(8) was 50	Cooking Town	Location	Nearest	Equipment volt-35/9)
Table	Water Water	of B.H. 14	ezisaspa	B.H. Co-ordinates 1993 633 H. 47/7
M.9 21.9 SMIT	Sillollis	Completec	.M.flo.	Started & 3/0/115 Time 6.3
	SOL handn	MpM , O	GENC	Project HK270 MW T.S.
m. Depth : 15. co /	197	OBING	OE B	NAGADI RECORD
9P: .ON. H	1.8			
The second secon			12.75.15.15.1.0	- THOTHOUGH - HITTO

*DS. Disturbed; UDS, Undisturbed

01.51

on 111

403

95 105

3591 : .oN dol Doc. No.: FD/G/09/01

Mogadi Censultants

WLS. 0-00

CR-6.98M

40n-0-00

MH8.0 -80

M850-00

MEN-0-87

52.11/58.

NAGADI CONSULTANTS PRIVATE LIMITED



Client

Roddish Sept Roll (Shell)

Reddich weathered Buch

DELHI - BANGALORE - CHENNAI - SECUNDERABAD

		. 200	056	
		. S-Q	01.10	
abil a	-18,15,1E	108	0.8	Freyish & Bellisher Boll.
107/19a	11, 6110	.2.4	05.L	ap winner 18/K
		DD7	05.9	hoddin a weathered both
		.2.€	01.9	Paraue with hand we callusted secte
	とだらいま	108	0.5	godysam healbirh waathered deck
75	2/2 2 8 8 8	2.6	05.7	אסמויצמים אונורסוייצמי מסמוני ובי שמנה
		.241	(01.17	Boogh shy Rolding weginered docke
		.5.€	3.20	My pinkin sandy sail
06	E. 01.81.00,00,86	108	01.8/	6) yellowish somy chuycothy ravol + bouldes
40	68888	. S-Q.	3.20	Wrethins the sandy day with residual 194/4
		UDS.	(on . C	Propo by 10 48 thack /1/8
		D.S.	05.1	ap
		108		Mend in book sills cloy to it would
		.2.C	cso	Bosonia Alia winwerd
Remarks	eulsV - V	SPT / Sample Q	Depth (m)	Soil Description
Histor (3)	TOWN BUNDO)	Location	Nearest	Equipment Volt 35 (S)
able	T 19teV Water T	Of B.H. 1	SIE Size	B.H. Co-ordinates 19938605 N. 9 4719
M.905.8 9m	T _21/10/56	Completed	A.M.	Started 21/0/15 Time 8.40
	Sd_ nan	Manue	GENCO	Project HX270 MW 7.5.
n. Depth : 30 us		OBING	OE B	MAGADI RECORD
261 : ON	.H.8		NAIPUR SINA	

*DS. Disturbed; UDS, Undisturbed

an of

05.81

01.L1

05:51

05.11

18.50

011

05.91

198

2.Q

35 31 : ON dol

DECHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED Doc. No.: FD/G/09/01

		2.6	02.0	Journal Allo His pole	aluqued a		
Kemarks	eulsV - V	Semple Q	(m)	Soil Description	ILE T		
Equipment Up.11-35 (S) Nearest Location: Cooking Tower Area (3)							
B.H. Co-ordinates 1993 68 N, 4718/0 Size of B.H. Loomm. Water Table							
Started 15/01/15 Time Loop.M. Completed 20/01/15 Time 3.159.M							
Project HX270 TS GENCO Manugury 7PS							
rm. Depth : 50.us	eT t	OBING	OE B	BECOKD	IDABAN		
701 : .ON .H	1.8				NA		

ogodu Consullant		DS, Undist	U ; bedıtı	Client DS. Dis
purpos T	05	128	05.91	
20/5.50	11	·5·a	05.51	- ob
		. 2.C	05.41	ab
1 0	Th 19	405	05.21	- ab-
E1/201	<i>" "</i>	.8.a	01.51	ab
		s-an	18.00	op -
		.2.G	05-11	op-
	09,55	108	05.91	op-
05 t 1 /511	// 110	8.a	00.01	
		0.00	20.6	ob
		.5.€	05.8	op
	-SC.	185	95.4	ob_
mol/st	n'e	.5€	05.9	db
		200	01.9	- op-
34.5		. 2.€	05.5	- db
1541	是 是 是	102	20.00	Abeldish weathered Rock (Shell)
1		200	01-17	90
		2.€	3.50	- op
917	智温温	108	01.8	Als will clay with growels
		D.2.	2.50	
		san	01.8	निगम्हिता है। में हिता हिता है। में प्रमानिक किर्म में विकार में
		2.€	05.1	
50	一般沿海	105	01/	ab_
建设于		2.6	05.0	D. Bacow su clay with sally gacuells.
Remarks	N - Value	Sample Q	(m)	Soil Description
	7			

	-	_	
1		0	
0	70		
M	30	e	

Site-in-Charge				Client .
5. Ganal	Note			make
sanso.20	L bed1L	DS, Undist	turbed; UI	sid .ed* Allope
			1867	
No.		The Ag	37.7	
		34	134	THE REAL PROPERTY.
			Dire.	
			PINE DE	
		111/24	3-3-	
1000		16 50	288	
		te en	97	
			1	
		To No.	/	
		1. 1	-	
			/	
oper to app		er vo	1	
			1	
Harris of the	A CONTRACTOR OF THE PARTY OF TH	1	37.1	18 S.
Har Ave		1	0.00	
- 490			100	
	e Stewart			
		1		
M09.0-80			01.08	
ME1-1-80			39.00	
CR-1-62M			05.68	
CR-0.60M	1000 (0000)		82.20	ganghish & hoddish settool
No sample	-55	415	82.20	1.011.0 P. 11.0 P. 10.0
	11-11		05.18	Reddish soft Rock (Shell)
RZ -0-83			05.08	
	55.01	110	05.61	
-CR-0-13M	- EE 106	188	and the second	90
		5.0	05.81	CHANGE STORE OF LANDING
		.2.Q	05. L.1	Reddush w. Roche (shell)
CR-0.33M		Secretary of the secret		(11075) कार्या कि के में कि कार (Shell)
Term Depth :	B.H. No. :		: .oN dol	Continuation Sheet

8.01 : LON .H.8 3591: ON 901

DELHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED DOC. NO.: FD/G/09/07



RECORD OF BORING

	^
	Equipment Voll-35'(S) Nearest Location : Cooking 7
ater Table	B.H. Co-ordinates 199361579, 471858 E Size of B.H. Loomm Wa
	Started 25 10115 Time 11.30 AM Completed 22/01/15
	Project HX270 MW T.S. GENCO, MONUGUEL, TPS
Term. Depth : 20. io	NAGADI RECORD OF BORING

		the state of the s	Line of the last o		
di Enswilled. te-in-Charge	Short pequi	utsibnU ,20	IU ; bediut	Client *DS. Dist	
M84.0-07			20.06	sid sa*	
			05-81		
CR-6.33M		.S.4	05 LI		
	33 60	.2.00	05.91		
82/12.5	32 50	105	05:51		
		.2.d	05.h1	op	
		. 2.6	05.81	op	
-01/-t	-5h 10E	118	05.81	op	
-DI/5t	1 6	· 8. d	00.81	Reddish weathered Bock (Shade)	
M32.0-80			01-11	- op-	
M810-80	_		25.6	- Soul the holding with Book	
,	05 08,51	110	in.8		
ms t1/56	ुई ९६ ह			gregist phoddist w Rock	
		. 2.C.	05.7	ab	
		200	62.3	op	
		.2G	20.9	Ruddish w. Dodl	
(3)	हिंदि है। है। है। है।	-18	01.5	Souper Haddish to Rock	
(63)	0	9.7	05.n		
		580	01.4	Roddien y green sh to Roth (sholl)	
		.26			
	08/11/01/6/11/30		3.20	Reddigh to Rock (Shell)	
(15)	व्हिंभी विश्व है		3.10	Reddistry which shows to Book	
		.2.€	05.6	Horsewish mily sound clay with from the	
		UDS.	2.6	> Stowers of the charge in sound of grounds	
		· 2.4	051	op —	
(39	13 181 16	792	01.1	op	
			25.0	Boots phile newward . 6	
Remarks	N - Value	Sample Q	Depth (m)	Soil Description	
(%) Dack 100	י כמפתותם נסת	Location	Nearest	Equipment Voll-35 (S)	
	Water Water			, , , , , , , , , , , , , , , , , , , ,	
Started 25/01115 Time 11.30 AM Completed 27/01/15 Time 4.00 P. I					

3591: ON dol NAGADI CONSULTANTS PRIVATE LIMITED Doc. No. : FD/G/09/01

Site-in-Charge

J. S. dawa

CR-0-20M

M 59-0-80

05/95

DELHI - BANGALORE - CHENNAI - SECUNDERABAD



Client

Redds 84 w. dock (shell)

		THE STATE OF					
CK-010M			95.81	Reddich soft socie cshell.			
		D.S.	19.00	Areddush w. Roche (Sheil)			
- 15 Oct	是是少	185	01.11	Broying deadlish to Rocecshell			
62/20		.2.Q	05:01	ob			
		.240	05.6	op			
W Had		5.Q	00.6	Reddl 34 wathered deck			
4.571	약, 일등, 일등	145	01.8	godish a beddush to socke (Shell)			
F-82/8P	711 2 8 2	.5.0	00.4				
		0.02	05.9	olb			
		.5.€	09.9	- ap-			
59	-55/05/19	105	01.5				
	9 9 0	8.9	05 n	heddish weathered ach			
		.007.	(00·h)	प्रमाध्य माना मिन्न क्रिया दिला का मानि में अवास्ता			
		. r.a	3.50				
-	当台中	105	0.8	~ op			
61	221	9.7	05.8	op			
		. Ed u	01.6	claused Alas your elis barg is adole			
		.5.Q.	05.1	op-			
12	到身子	188	00.1	- ab			
			05.0	8. Browner Siltwith clay			
Kemarks	N - Value	Semple Q	(m)	Soil Description			
Equipment Volt-90(R) Nearest Location: (Book Alov (4)							
Table	B.H. Co-ordinates 1993530 M, 471950 E. Size of B.H. 100 mm. Water Table						
M.9.2-8 amiT	Started 2110115 Time 9.50 N.M. Completed 23/0/115 Time 3-50 N.M.						
	29T usupu	MOM, O	GENC	Project HX270 MW T.S.			
rm. Depth : 20 K	_	OKING	OE B	NAGADI RECORD			
601 : ON .H	8	anoozo -	NAINTHA	TANGALONE THE BANGALONE			

*DS. Disturbed; UDS, Undisturbed

an.L

01.91

01.51

01.41

105

. 2. a

_	-	٠.	_		
	6	3	00	2	

T. S. Bana. apoles demo 8 *DS. Disturbed; UDS, Undisturbed t1. E/55 SS 71 188 20.00 ·5 @ 00.61 0.81 5.€ Acadersh weathered Sect (Shell) Term Depth: B.H. No. : : .oN dol Continuation Sheet

Magade Gensulstall

Client

D

Term. Depth: Bow

011 : .oN .H.8

8591 : ON dol

DETHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED Doc. No.: FD/G/09/01

NAGADI

BORING	HO	COKD	KE
DIMIGOG	UU	uuuu	uu

Project 4x870 MW T.S. GrENCO, THE MANAGUM, TPS
Started 15/01/15 Time 11.00 A.M. Completed 20/01/15 Time 4.00 P.M.

S. S. Marken Sile-in-Charge	nrbed Med	DS, Undist	U ; bedruts	Client (DS. Dia		
		15'd	01.41			
3.77		san	05 81	Goods shaked dish us hoch (shell)		
		. E.G	01.8.1			
001/94	56.	408	01.81	2 ab		
0011-12	7-1	.5.a	05.41	ab		
		24.0	6.01	Reddush w. Rock (shell)		
w 87 (hal	-55 16h	108	01.6	Boghsup heddush is Bock (Bhell)		
104/280	45 10	.5.G	05.8	Reddish w. Rolle (Shell)		
		200	00.8			
		.2.Q	05.4	ab		
	05,05	105	01.14	grapish p acade ish wo hock (shell)		
100/2000	110 110	·5.Q	25.9	hoddish weathered hoch (shell)		
		200	01.9	Reddish silly clay with growels		
		D2.	05.5	db		
75	81,71,8	105	01.5	Llounch Ming clay with gravels		
72	113 42 110	.5.Q	05.7	ab		
THE WO		200	01.11	Kedder Sily clay with ganvels		
Caller To Ka-		·5.4	05.8			
88	智温温	188	01.8	- ap		
19		. 2. C	05.8	- op		
THE PLAN	(Pert)	200	00.00	219 met dies bobs demost &y		
Mary Property	ance colonia	D.S.	05.1	brownish sily clay with sand.		
02	119 61 9	105	an.V	ap		
The State of		sa	05.0	D. Hosperish cloud with Silt		
Remarks	N - Value	Semple Q	Depth (m)	Soil Description		
(th) back so	was fridas):			Equipment Lool 90(8)		
B.H. Co-ordinates 1993568 N, 471960 E Size of B.H. LODMM. Water Table						

egradO-ni-eti	S			Client
dustansnos i	robot rodor	usibnU ,20	iurbed; ∪i	sid .ed* Zuolos foo
T. S. Oleman	C No. A. (51,211)			***
12 - 3 m			9.7	
W		1000	20-1	
199	× =	174 56	337.74	
SUSSESSED OF SUSSESSED	(area)	No B	10.00	
CONTRACTOR OF TRACTOR	SECO. SPAIN	3 70	- Kale	
VEGETER FOR THE	Town The Control of t	8 30	Big.	
in the		7-40	00/	
A TOTAL		14.54	1	
Cast of the later of	B ROOF SHEAT		/	2 2 1 1 1 1
JUST TO STATE	a start Copylin	P 45		
Mean the day	OH CHANGE	10-16		
7.1		3.3	1	
Show the San Charles	and Azarogra-	2	384	ASSTRUCTION OF STREET
CR-0-31M	A RELIGIES	TE	30.00	
PROBLEM OF THE PARTY	AN Jone of L	.2.4	01.98	
· >>>	SL	.2.E	01.88	
18.8/st	- <u>SC</u>	405	01.16	Greyry deddign to dock (shell)
		· 5. Q	0.96	- ob
	01	.2.€	01.56	Reddigh w. Rock (Shell)
5 t/06	15		24.00	goey and headert to hock (Shou)
		.2.a	00.8g	2000.00
		108 P.S.	01.18	green she head dish is hock (She!) hed dish is hock
		108	30.00	96
	18 65 W 194	.2.0	03.61	op-
MINE STORY	96		0.81	- ap-
s tyoz	311	100	0.71	00
		2.4	00.91	Reddish to Bock (Shell)
0169	09	108		grayshay peddran to hock (shell)
Term Depth :	B.H. No. : 110	The second second	: ON dol	

NAGADI CONSULTANTS PRIVATE LIMITED

DECHI - BANGALORE - CHENNAI - SECUNDERABAD



Client

ap

1 las	司一里	792	on hi		
001/96	-11 2 3	.2.G	01.81	- ap-	
		.2.E	المرس	hedds. 84 w. Rock cshale	
18, 11	空"	105	01.11	B) Reddish w. Bock 12 hale	
7.11/78	71 6	.2.G	105.01	Reddush w. Rolle (Shale)	
		200	05.6	B/ Reddish w. Roll (Shede)	
		·2.0	09.6	Reddigu to Rock (Shade)	
-81 Jab	-뚜-딸일	105	0.8	8/ Reddish to Reck (Sharle)	
de 180	, ,	.2.C	05.4	Reddush w. Rocke (shale)	
		200	25.9	- op-	
		.2.d	0.3		
~	经活些是是	408	8.5	לשמואר ב מבפללוצי והפתוחפשם מנכנב	
901 -	1 2 7 7 7 7 7	·1.4	05.h	ab .	
		000	0.17	op	
		.5.0	320	13/4/ Reddish weathered soule	
	等得望	408	3.0	Y/8/ Browner weathered deck	
(38)	7 9 3	.2.8	3.20	בשונים ביון בל בשות בשות הוות שבותם היון לביותם	
		500	D.6	Warrend Sily closy with granded	
		.2.C	05.1	op	
(3)	21/01/12	108	0.1	op	
(20)	999	.2.4	05.0	from falls ysmonaegra	
Kemarks	eulsV - V	Sample Q	(m)	Soil Description	
	A	SPT /	Depth	Equipment Malt do (2)	
المالات المالات		Location		(2)00 11 1	
B.H. Co-ordinates 19935 200/ 47 2005 Size of B.H. Lestin Water Table					
Started 25/01/15_ Time 10.30 M. Completed 27/01/15 Time 4.00 P.M.					
	5d1 hello	MAM	ODNE	Project UX 270 MW TS 6	
m. Depth : 20.00	IĐĪ Č	OKING	OEB	NAGADI RECORD	
I I A	1/2-32				

*DS. Disturbed; UDS, Undisturbed

01.61

00.91

07.51

Lds

· S.A.

. S.a

Site-in-Charge

111

B.H. No.:

85 91 : ON 90r

Doc. No. : FD/G/09/01

Magade Consultant Client SILIOILE J. S. Bana *DS. Disturbed; UDS, Undisturbed 元七, 元 20.08 108 01106 .8.a 00.61 Reddish w. Rock (Shale) 00.81 D'S. 8591: ON dol Continuation Sheet B.H. No.: [[[Term Depth:

0

405 01:51 100 1 10cm 100 01.41 .2.a 01.81 13.00 · 5.4 Reddish weathered dock (shell) 115 01.11 ma/09 . S. Q 00.01 5.9 00.0 35 38 01.8 1.05 5-21/19 . 2. Q 05 L 05.9 2d u gray 844 deddish w. Rock (shell) . 2. 9 01.9 3 3 3 5 5 T 01.5 108 118 33. 05.7 B.S. 800 01.4 heddien weathered asch . 2. a 05.8 四月日 free y yemonogy 20 108 3.00 purp usupper 05.8 . 2. B dellows they still cloy with grave 2.00 200 .S @ 05.1 型學等 1.4.8 01-1 12, B. Brown with 8:11 Cloud 05:0 Sample Q (w) Remarks N - Value Soil Description Depth 1 TAS Equipment Voll 90(8) Nearest Location : Cooking Tower Green (4) B.H. Co-ordinates 19935034, 471978CSize of B.H. Topmw. Water Table Started 33/01/15 Time 630 A.M. Completed 24/01/15 Time 6.00 P.M. HX 810 MM I'S GENCO WANNERS I 105 Project Term. Depth: 15.40 **BECOKD OF BORING** IDADAN B.H. No.: 122

DELHI - BANGALORE - CHENNAI - SECUNDERABAD

NAGADI CONSULTANTS PRIVATE LIMITED

*DS. Disturbed; UDS, Undisturbed

Client

Magedy Consultants

J. S. OLDING

3531 : ON dol

Doc. No.: FD/G/09/01

Aparal Charge Sife-in-Charge

35 71 : ON dot

DELHI - BANGALORE - CHENNAI - SECUNDERABAD NAGADI CONSULTANTS PRIVATE LIMITED Doc. No.: FD/G/09/01



Client

Ellops Chulo

		.2du	D.10	yellowish boown silly clay with growels.		
		D.S.	05.1			
(47)	智智智等等等	798	00.1			
		.s. a	050	D. nacowing silt with clay		
Kemarks	eulsV - V	Semple Q	(m)	Soil Description		
Equipment Calix Nearest Location: Cooking Tower Area (1)						
				B.H. Co-ordinates 19923 To M. N 7195		
M.9 w. B emil		Started 24(6) 5 Time & 30A'M Completed Autoll19				
Project UX270 MW 7.5. GENCO, Manuguru, 7PS						
m. Depth : (6.0)	MAGADI Term. Depth : 16.48					
E.S.1 : .ON .1	1.8					
	avava-	CVCVITCALCOTO - IVANITACO - TATOTACONO - ILITACO				

~/	1 1 11 11	1 15	01.01	- No. 16
2/19	中電量管	105		18000mish, piwalsh shell
		.24U	05.6	0. 10.
t1/68	아뜰방	192	8.00	219 upeg Mion Hows weithing 18 161
100		UDS.	05.9	
88 79	8두킨일용	145.0	09.9	Marvey Mia Mans no 18 18 18/4/8
	1 2 2 5	SQA	01.17	ab
		.2.8	3.20	ub
52/53	是是學習曾	192	01.6	Cloure Mint clay with Loin gravels
		· 5.a	05.8	op
		.edu	3.10	yollowish beown silly clay with growth.
		D.S.	05.1	
(47)	智神学等等等		00.1	
	6 6 6 8 6 6	. s. e	050	D. Decenial Silt with clay
Remarks	eulsV - V	Sample Q	Depth (m)	Soil Description
Equipment (AMA) Nearest Location : Mearest Location :				

*DS. Disturbed; UDS, Undisturbed