

CORRIGENDUM-9 TO TENDER SPECIFICATION BHEL: PSSR: SCT: 1862

Sub: Civil Works in encasing of Cooling Water (CW) Pipeline (CS piping & GRP Piping – Inside Plant Boundary) at 2x660 MW Ennore SEZ Super Thermal Power Project, at ash dyke of North Chennai Thermal Power Station (NCTPS), Thiruvallur District, Tamil Nadu

1. Following Query has been sought by Bidder in regard to Subject Tender and BHEL's clarifications are furnished below for information.

Sl. No	Clause Reference	Query	BHEL Reply
1.	-	Please kindly provide Soil Investigation / Bore report	Bidder to refer enclosed documents containing Bore Log Detail and enclosed Geotechnical Investigation Layout (For tendering purpose only).

NOTE:

1. ALL OTHER CONDITIONS REMAIN UNCHANGED.
2. BIDDERS ARE REQUESTED TO CONSIDER THIS CORRIGENDUM AS PART OF TENDER SPECIFICATION AND QUOTE ACCORDINGLY.

Encl:-

1. Bore log data – 238 Pages.
2. Geo-technical Investigation Layout – 01 Pages

-sd-
T.K.Eashwar
Sr.Engineer/ SCT

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.1

Co-ordinates E=2800.000
N=4678.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.407 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.70 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Very soft, greyish brown, silty clay with kankars.							DS-1	0.50
1.45m		0	0	0		0	SPT-1	1.00-1.45
Very loose, deep grey, silty sand / sandy silt.							*UDS-1	2.00-2.45
		0	0	1		1	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	1	0		1	SPT-3	5.00-5.45
6.45m							*UDS-3	6.00-6.45
Very loose to loose, brownish grey, silty sand / sandy silt with steel grey patches.		0	1	2		3	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
		3	5	5		10	SPT-5	9.00-9.45
							*UDS-5	10.00-10.45
11.00m							DS-2	11.00
Very stiff, light greenish grey, silty clay / clayey silt.		8	11	12		23	SPT-6	11.50-11.95
							DS-3	12.50
							*UDS-6	13.00-13.45
							DS-4	14.00
14.50m		9	14	17		31	SPT-7	14.50-14.95
Medium dense to dense, light yellowish grey, silty sand / sandy silt.							DS-5	15.50
							*UDS-7	16.00-16.45
		5	6	9		15	DS-6	17.00
							SPT-8	17.50-17.95
Dense, light brownish yellow, silty sand / sandy silt. Obs. steel grey patches.							DS-7	18.50
							UDS-8	19.00-19.45
		13	18	22		40	DS-8	20.00
							SPT-9	20.50-20.95
21.50m							DS-9	21.50

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Co-ordinates E=2800.000
N=4678.000

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Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.407 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.70 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Dense, light brownish yellow, silty sand / sandy silt. Obs. steel grey patches.	21.50m 22.00m	17	20	25	45	SPT-10	22.00-22.45
		18	22	30	52	DS-10	23.00
Very dense, yellowish brown, silty sand.		20	27	31	58	SPT-11	23.50-23.95
		18	22	33	55	DS-11	24.50
	26.00m	18	21	30	51	SPT-12	25.00-25.45
Hard, brownish grey, silty clay with sand mixture. Obs. steel grey patches, yellowish spots.		17	21	29	50	DS-12	26.00
		31	33	35	68	SPT-13	26.50-26.95
	31.00m	37	40	41	81	DS-13	27.50
Very dense, light yellow, silty sand.		30	39	45	84	SPT-14	28.00-28.45
	34.00m	35	45	50	95	DS-14	29.00
Very dense, light brownish yellow, silty sand.		28	30	31	61	SPT-15	29.50-29.95
	37.00m	27	29	31	60	DS-15	30.50
Hard, brownish yellow, silty clay / clayey silt with traces of sand.		26	31	32	63	SPT-16	31.00-31.45
	40.45m					DS-16	32.00
						SPT-17	32.50-32.95
						DS-17	33.50
						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
						SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.2

Co-ordinates E=3374.000
N=4500.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.39 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.8 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Very soft, brownish grey, silty clay with kankars.								DS-1	0.50
1.45m		0	0	0				SPT-1	1.00-1.45
Very loose, deep grey, clayey silty sand.								UDS-1	2.00-2.45
5.45m		0	0	1				SPT-2	3.00-3.45
Very loose, brownish grey, silty sand / sandy silt with steel grey patches								*UDS-2	4.00-4.45
9.00m		0	1	1				SPT-3	5.00-5.45
Very loose, brownish grey, silty sand / sandy silt with steel grey patches								*UDS-3	6.00-6.45
11.45m		0	1	2				SPT-4	7.00-7.45
Medium dense, light greenish grey, silty sand with traces of clay binder.								*UDS-4	8.00-8.45
17.50m		4	5	6				SPT-5	9.00-9.45
Medium dense, light greenish grey, silty sand with traces of clay binder.								UDS-5	10.00-10.45
21.00m		5	9	14				SPT-6	11.45-11.90
Medium, light greenish grey, silty sand / sandy silt.								DS-3	12.50
		5	7	11				*UDS-6	13.00-13.45
								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
								DS-6	17.00
		11	14	17				SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
								SPT-9	20.50-20.95
		15	16	20					

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BORE HOLE NO.2

Co-ordinates E=3374.000
N=4500.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.39 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.8 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Dense to very dense, light yellowish grey, silty sand / sandy silt with steel grey patches.		19	25	30	55			DS-9	21.50
					79			SPT-10	22.00-22.45
23.50m Very dense, brownish yellow, silty sand.		31	37	42	78			DS-10	23.00
		35	38	40	76			SPT-11	23.50-23.95
26.50m Very dense, light yellowish grey, silty sand / sandy silt. Obs. reddish spot.		27	31	45	69			DS-11	24.50
		25	31	38	49			SPT-12	25.00-25.45
29.50m Dense, light yellowish grey, silty sand with traces of clay binder.		18	22	27	44			DS-12	26.00
		15	20	24	51			SPT-13	26.50-26.95
31.00m Hard, steel grey, silty clay / clayey silt with fine sand mixture.		17	19	32	72			DS-13	27.50
		25	39	33	78			SPT-14	28.00-28.45
34.00m Very dense, yellowish grey, silty sand / sandy silt.		22	23	55	85			DS-14	29.00
		25	32	50	86			SPT-15	29.50-29.95
37.00m Hard, deep brown, silty clay / clayey silt with coarse sand mixture.		27	31	55	69			DS-15	30.50
		17	22	47				SPT-16	31.00-31.45
38.50m Hard, deep brown, silty clay.								DS-16	32.00
40.45m								SPT-17	32.50-32.95
								DS-17	33.50
								SPT-18	34.00-34.45
								DS-18	35.00
								SPT-19	35.50-35.95
								DS-19	36.50
								SPT-20	37.00-37.45
								DS-20	38.00
								SPT-21	38.50-38.95
								DS-21	39.50
								SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.3

Co-ordinates E=3737.000
N=4156.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 23/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.454 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Very soft, brownish grey, silty clay with moorum.								DS-1	0.50
1.00m		0	0	0				SPT-1	1.00-1.45
Very loose, dark grey, clayey silty sand.								UDS-1	2.00-2.45
		0	0	0				SPT-2	3.00-3.45
4.00m								*UDS-2	4.00-4.45
Very loose, brownish grey, clayey sandy silt with steel grey patches.		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.45m		0	1	2				SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
Medium dense, light greenish grey, silty sand.		2	5	7				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
14.00m		4	10	14				DS-2	11.00
Very stiff, light greenish grey, silty clay with high % of fine sand mixture.								SPT-6	11.45-11.90
								DS-3	12.50
16.00m		8	10	17				*UDS-6	13.00-13.45
								DS-4	14.00
Hard, greenish grey, silty clay / clayey silt with sand mixture.		14	15	22				SPT-7	14.50-14.95
								DS-5	15.50
18.50m								UDS-7	16.00-16.45
								DS-6	17.00
Dense to very dense, light yellowish grey, silty sand with steel grey patches.		10	17	20				SPT-8	17.50-17.95
								DS-7	18.50
21.00m								UDS-8	19.00-19.45
								DS-8	20.00
								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.3

Co-ordinates E=3737.000
N=4156.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 23/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.454 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Dense to very dense, light yellowish grey, silty sand with steel grey patches.		33	46	50				96	DS-9 21.50
23.45m Very dense, light brownish yellow, silty sand.		31	37	48				85	SPT-10 22.00-22.45
28.00m Very dense, light greyish yellow, silty coarse sand.		25	40	43				83	DS-10 23.00
32.50m Very dense, brownish yellow, silty fine sand.		22	40	51				91	SPT-11 23.45-23.90
34.00m Hard, deep brownish grey, silty clay. Obs. yellow patches.		23	45	45				90	DS-11 24.50
37.00m Very dense, greyish yellow, silty sand / sandy silt with grey patches. Obs. greyish brown silty clay (SPT-22).		23	54	43				97	SPT-12 25.00-25.45
40.55m N.B. - '*' means sample could not be recovered.		25	43	48				91	DS-12 26.00
		32	38	47				85	SPT-13 26.50-26.95
		15	24	28				52	DS-13 27.50
		13	18	25				43	SPT-14 28.00-28.45
		32	38	50				88	DS-14 29.00
		28	23	55				78	SPT-15 29.50-29.95
		12	32	42				74	DS-15 30.50
									SPT-16 31.00-31.45
									DS-16 32.00
									SPT-17 32.50-32.95
									DS-17 33.50
									SPT-18 34.00-34.45
									DS-18 35.00
									SPT-19 35.50-35.95
									DS-19 36.50
									SPT-20 37.00-37.45
									DS-20 38.00
									SPT-21 38.50-38.95
									DS-21 39.50
									SPT-22 40.10-40.55

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.4

Co-ordinates E=(-)3627.000
N=3567.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 20/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.525 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.0 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consists of reddish brown, moorum.								DS-1	0.50
0.70m		0	0	0				SPT-1	1.00-1.45
Very soft, brownish grey, silty clay with traces of kankars.								*UDS-1	2.00-2.45
3.00m		0	0	1				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Very loose, deep grey, clayey silty sand.		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	0	1	1			SPT-4	7.00-7.45
8.50m								*UDS-4	8.00-8.45
		2	2	2				SPT-5	9.00-9.45
Loose, light greenish grey, sandy silt / silty sand.								UDS-5	10.00-10.45
		3	3	7				DS-2	11.00
								SPT-6	11.45-11.90
								DS-3	12.50
								*UDS-6	13.00-13.45
14.00m		9	11	16				DS-4	14.00
Medium dense, light greenish grey, sandy silt / silty sand.								SPT-7	14.45-14.90
								DS-5	15.50
								UDS-7	16.00-16.45
17.50m		11	15	16				DS-6	17.00
Hard, greenish grey, silty clay / clayey silt with sand mixture.								SPT-8	17.45-17.90
19.00m		13						DS-7	18.50
								UDS-8	19.00-19.45
Dense to very dense, brownish grey, silty coarse sand.								DS-8	20.00
21.00m		15	24					SPT-9	20.50-20.95

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BORE LOG DATA SHEET

BORE HOLE NO.4

Co-ordinates E=(-)3627.000
N=3567.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 20/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.525 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.0 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Dense to very dense, brownish grey, silty coarse sand.		16	18	25	43			DS-9	21.50
								SPT-10	22.00-22.45
		16	26	38	64			DS-10	23.00
								SPT-11	23.50-23.95
		17	27	40	67			DS-11	24.50
								SPT-12	25.00-25.45
26.50m Hard, brownish grey, silty clay.		14	21	27	48			DS-12	26.00
								SPT-13	26.50-26.95
		14	20	29	49			DS-13	27.50
								SPT-14	28.00-28.45
29.50m Dense to very dense, brownish yellow, silty coarse sand. Obs. steel grey patches.		13	20	25	45			DS-14	29.00
								SPT-15	29.50-29.95
		15	24	27	51			DS-15	30.50
								SPT-16	31.00-31.45
32.50m Very dense, brownish grey, silty coarse sand.		13	33	45	78			DS-16	32.00
								SPT-17	32.50-32.95
		16	30	41	71			DS-17	33.50
								SPT-18	34.00-34.45
35.50m Very dense, brownish grey, silty coarse sand with clay binder. Obs. reddish spot.		11	20	30	50			DS-18	35.00
								SPT-19	35.50-35.95
		13	20	34	54			DS-19	36.50
								SPT-20	37.00-37.45
38.50m Very dense, brownish grey, silty sand with clay lamination. Obs. silty clay in SPT-22.		20	33	45	78			DS-20	38.00
								SPT-21	38.50-38.95
40.45m		26	35	40	75			DS-21	39.50
								SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.5

Co-ordinates E=(-)3681.000
N=2973.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 18/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	20	Level Of Ground : 8.857 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of reddish brown, moorum & stone pieces.						18	DS-1	0.50
1.50m		4	9	9			SPT-1 WS-1	1.00-1.45 1.10
							*UDS-1	2.00-2.45
		0	0	0	0	0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
Very loose to loose, yellowish brown to light grey, clayey silty sand.		0	0	1		1	SPT-3	5.00-5.45
							UDS-3	6.00-6.45
		2	4	5		9	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m		4	6	8		14	SPT-5	9.00-9.45
Medium dense, light greenish grey, silty sand / sandy silt.							*UDS-5	10.00-10.45
		5	11	14		25	DS-2	11.00
							SPT-6	11.50-11.95
12.50m							DS-3	12.50
							*UDS-6	13.00-13.45
		8	14	18		32	SPT-7	14.50-14.95
Dense, light greenish grey, silty sand / sandy silt.							DS-4	15.50
							UDS-7	16.00-16.45
17.00m		14	17	19		36	DS-5	17.00
Hard, light grey, silty clay / clayey silt with laminated fine sand mixture.							SPT-8	17.50-17.95
							DS-6	18.50
							UDS-8	19.00-19.45
20.00m		17	21	24		45	DS-7	20.00
Dense to very dense, yellowish brown, silty sand with traces of laminated clay binders.							SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.5

Co-ordinates E=(-)3681.000
N=2973.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 18/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	20	Level Of Ground : 8.857 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Dense to very dense, yellowish brown, silty sand with traces of laminated clay binders.		15	20	33	53		DS-8	21.50
							SPT-10	22.00-22.45
		25	38	45	83		DS-9	23.00
							SPT-11	23.50-23.95
		19	29	38	67		DS-10	24.50
Hard, brownish grey, silty clay / clayey silt with whitish grey / steel grey patches & laminated sand mixture.					40		SPT-12	25.00-25.45
		12	16	24			DS-11	26.00
							SPT-13	26.50-26.95
		11	20	25	45		DS-12	27.50
							SPT-14	28.00-28.45
		19	23	26	49		DS-13	29.00
							SPT-15	29.50-29.95
		15	25	32	57		DS-14	30.50
							SPT-16	31.00-31.45
		26	37	47	84		DS-15	32.00
Very dense, yellowish brown, silty sand. Obs. clay binder.							SPT-17	32.50-32.95
		24	39	48	87		DS-16	33.50
							SPT-18	34.00-34.45
		31	44	53	97		DS-17	35.00
							SPT-19	35.50-35.95
		35	52	50	>100		DS-18	36.50
						10.0 cm Pentn.	SPT-20	37.00-37.40
		37	47	50	>100		DS-19	38.00
						10.0 cm Pentn.	SPT-21	38.50-38.90
		43	56	50	>100		DS-20	39.50
N.B. - '*' means sample could not be recovered.							SPT-22	40.10-40.49
						9.0 cm Pentn.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.6

Co-ordinates E=(-)3181.000
N=3041.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.731 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.80 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	1	1				SPT-2	3.00-3.45
Very soft, greyish brown, silty clay.								*UDS-2	4.00-4.45
		1	1	2				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
7.00m		0	0	1				SPT-4	7.00-7.45
Very soft, dark grey, silty clay with fine sand mixture.								UDS-4	8.00-8.45
		0	0	1				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.50m		3	4	4				DS-2	11.00
Loose, whitish grey to greenish grey, silty sand with clay binder.								SPT-6	11.50-11.95
12.50m								DS-3	12.50
								UDS-6	13.00-13.45
Medium dense, whitish grey to greenish grey, silty sand with clay binder.		6	8	12				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.50m		4	8	14				DS-6	17.00
Very stiff, light yellow, silty sandy clay.								SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
20.50m		9	18	19				DS-8	20.00
Dense, greyish yellow, silty sand.								SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.6

Co-ordinates E=(-)3181.000
N=3041.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.731 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.80 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m →					42		
		11	20	22		SPT-10	22.00-22.45
					36	DS-10	23.00
		12	17	19		SPT-11	23.50-23.95
					46	DS-11	24.50
		14	22	24		SPT-12	25.00-25.45
					40	DS-12	26.00
		14	22	18		SPT-13	26.50-26.95
					41	DS-13	27.50
		10	15	26		SPT-14	28.00-28.45
					37	DS-14	29.00
29.50m →		7	14	23		SPT-15	29.50-29.95
					32	DS-15	30.50
		10	13	19		SPT-16	31.00-31.45
					88	DS-16	32.00
32.00m →		35	42	46		SPT-17	32.50-32.95
					89	DS-17	33.50
		32	41	48		SPT-18	34.00-34.45
					93	DS-18	35.00
		34	42	51		SPT-19	35.50-35.95
					87	DS-19	36.50
		28	39	48		SPT-20	37.00-37.45
					91	DS-20	38.00
38.50m →		31	45	46		SPT-21	38.50-38.95
					95	DS-21	39.50
		25	47	48		SPT-22	40.00-40.45
40.45m →							
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.7

Co-ordinates E=(-)2359.000
N=4273.000

Field Test	Nos	Samples	Nos	Commencement Date : 23/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 28/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.33 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
Very loose, brownish grey, silty sand with clay binder.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
Stiff, light grey to greyish brown, silty clay with high % of sand.		3	5	9				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
Loose, steel grey, clayey silt with coarse sand to fine sand. Obs. kanakrs & gravels.		2	3	4				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
Medium dense, pinkish grey, sandy silt with clay binders / clayey silty sand.		3	7	11				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
Dense, brownish grey, silty sand.		7	12	18				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
								DS-6	17.00
		12	18	22				SPT-8	17.50-17.95
Hard, brownish grey, clayey silt with high % of sand.								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.7

Co-ordinates E=(-)2359.000
N=4273.000

Field Test	Nos	Samples	Nos	Commencement Date : 23/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 28/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.33 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Hard, brownish grey, clayey silt with high % of sand.	20.50m 21.00m	8	13	18	31	SPT-9	20.50-20.95
						DS-9	21.50
		10	13	16	29	SPT-10	22.00-22.45
						DS-10	23.00
Dense, brownish grey, silty medium sand.		10	14	19	33	SPT-11	23.50-23.95
						DS-11	24.50
		13	17	22	39	SPT-12	25.00-25.45
						DS-12	26.00
	26.00m	25	57	68	>100	SPT-13	26.50-26.95
						DS-13	27.50
		25	30	37	67	SPT-14	28.00-28.45
						DS-14	29.00
		22	27	35	62	SPT-15	29.50-29.95
						DS-15	30.50
Hard, brownish grey, silty clay / clayey silt. Obs. deep brown spot & kankars.		13	21	27	48	SPT-16	31.00-31.45
						DS-16	32.00
		12	23	27	50	SPT-17	32.50-32.95
						DS-17	33.50
		13	27	39	66	SPT-18	34.00-34.45
						DS-18	35.00
	35.00m	17	31	43	74	SPT-19	35.50-35.95
						DS-19	36.50
Hard, light grey, silty clay / clayey silt with laminated sand. Obs. brownish spot.		17	33	48	81	SPT-20	37.00-37.45
						DS-20	38.00
		16	38	44	82	SPT-21	38.50-38.95
	39.00m					DS-21	39.50
Very dense, yellowish grey, silty coarse sand. Obs. clay binder.		4	16	5	>100	SPT-22	40.05-40.26
N.B. - '*' means sample could not be recovered.	40.26m						

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.8

Co-ordinates E=(-)1953.000
N=8894.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/11/14
Penetrometer (SPT)	16	Undisturbed (UDS)	8	Completion Date : 30/11/14
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	15	Level Of Ground : 8.00 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.48 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light brown to light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.00m								*UDS-1	2.00-2.45
Very loose, deep grey, clayey sand.		0	0	0				SPT-2	3.00-3.45
								UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
6.50m								SPT-4	7.00-7.45
Very soft, light grey, silty clay with sand mixture.		0	0	0				UDS-4	8.00-8.45
								SPT-5	9.00-9.45
9.50m								UDS-5	10.00-10.45
Deep grey, clayey silty sand.								DS-2	11.00
11.50m		3	7	9				SPT-6	11.50-11.95
Medium dense, pinkish grey, sandy silt / silty sand. Obs. clay binders.								DS-3	12.50
								UDS-6	13.00-13.45
								DS-4	14.00
14.50m		4	7	10				SPT-7	14.50-14.95
Medium dense, steel grey, silty fine sand with clay lamination.								DS-5	15.50
15.75m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.8

Co-ordinates E=(-)1953.000
N=8894.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/11/14
Penetrometer (SPT)	16	Undisturbed (UDS)	8	Completion Date : 30/11/14
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	15	Level Of Ground : 8.00 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.48 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
15.75m Medium dense, steel grey, silty fine sand with clay lamination.							*UDS-7	16.00-16.45
							DS-6	17.00
17.50m Medium dense, light brownish grey, silty medium sand. Obs. kankars.		5	9	12	21		SPT-8	17.50-17.95
							DS-7	18.50
20.00m Dense to very dense, brownish grey, silty coarse sand. Obs. clay binders & kankars.							*UDS-8	19.00-19.45
							DS-8	20.00
		13	25	36	61		SPT-9	20.50-20.95
							DS-9	21.50
		12	20	24	44		SPT-10	22.00-22.45
							DS-10	23.00
		12	27	36	63		SPT-11	23.50-23.95
24.50m Very dense, steel grey, silty coarse sand. Obs. kankars.							DS-11	24.50
		16	34	42	76		SPT-12	25.00-25.45
							DS-12	26.00
		22	63	54	>100		SPT-13	26.50-26.85
				5.0	cm Pentn.		DS-13	27.50
27.50m Hard, light brownish grey, silty clay / clayey silt. Obs. micasists.							SPT-14	28.00-28.35
		26	65	52	>100		DS-14	29.00
				5.0	cm Pentn.		SPT-15	29.50-29.68
		52	54		>100		DS-15	30.50
				3.0	cm Pentn.		SPT-16	31.00-31.32
N.B. - '*' means sample could not be recovered.		31	75	54	>100			
31.32m				2.0	cm Pentn.			

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.9

Co-ordinates E=(-)1876.000
N=3315.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 01/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.409 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m Filled up soil consists of brownish grey, silty clay with moourm.								
1.00m		0	1	1			DS-1 WS-1 SPT-1	0.50 0.60 1.00-1.45
							*UDS-1	2.00-2.45
		0	0	1			SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	0	0			SPT-3	5.00-5.45
							UDS-3	6.00-6.45
		0	1	0			SPT-4	7.00-7.45
8.00m							UDS-4	8.00-8.45
		0	1	2			SPT-5	9.00-9.45
							UDS-5	10.00-10.45
		2	3	5			DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
13.00m							UDS-6	13.00-13.45
		7	7	10			DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
		6	8	11			DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m							DS-8	20.00
20.80m		15	17	24			SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.9

Co-ordinates E=(-)1876.000
N=3315.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 01/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.409 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Dense to very dense, yellowish grey, silty sand with traces of clay.		17	19	25	44		DS-9	21.50
							SPT-10	22.00-22.45
		22	25	27	52		DS-10	23.00
							SPT-11	23.50-23.95
		21	27	32	59		DS-11	24.50
							SPT-12	25.00-25.45
		23	29	38	67		DS-12	26.00
							SPT-13	26.50-26.95
							DS-13	27.50
		15	23	32	55		SPT-14	28.00-28.45
Hard, brownish grey, silty clay with yellow patches.		17	25	37	62		DS-14	29.00
							SPT-15	29.50-29.95
		19	24	35	59		DS-15	30.50
Very dense, brownish yellow, silty sand / sandy silt.		21	33	37	70		SPT-16	31.00-31.45
							DS-16	32.00
		21	33	37	70		SPT-17	32.50-32.95
Very dense, light brownish grey, silty sand.		24	37	42	79		DS-17	33.50
							SPT-18	34.00-34.45
		25	40	48	88		DS-18	35.00
							SPT-19	35.50-35.95
		27	43	47	90		DS-19	36.50
							SPT-20	37.00-37.45
		23	47	58	>100		DS-20	38.00
							SPT-21	38.50-38.95
							DS-21	39.50
		31	44	57	>100		SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.10

Co-ordinates E=(-)2120.000
N=3037.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.931 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consists of brownish grey, silty clay with moorum.								DS-1	0.50
1.00m		0	1	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
								SPT-2	3.00-3.45
Very soft to soft, light brownish grey to deep grey, silty clay.		1	1	1				*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
		0	1	1				UDS-3	6.00-6.45
6.45m								SPT-4	7.00-7.45
		0	1	2				UDS-4	8.00-8.45
Soft to medium, deep grey, silty clay with sand mixture.								SPT-5	9.00-9.45
		1	2	4				UDS-5	10.00-10.45
10.00m								DS-2	11.00
		2	5	8				SPT-6	11.50-11.95
Stiff to very stiff, deep grey, silty clay with traces of sand mixture.								DS-3	12.50
								*UDS-6	13.00-13.45
								DS-4	14.00
		3	6	10				SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
17.50m		7	10	14				SPT-8	17.50-17.95
Very stiff, light greenish grey, clayey silt with sand.								DS-7	18.50
20.50m								UDS-8	19.00-19.45
Dense, light yellowish grey, silty sand with traces of clay binder.								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.10

Co-ordinates E=(-)2120.000
N=3037.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.931 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Dense, light yellowish grey, silty sand with traces of clay binder.		15	19	24	43	SPT-9	20.50-20.95
						DS-9	21.50
		15	21	25	46	SPT-10	22.00-22.45
						DS-10	23.00
23.50m Very dense, light brownish grey, silty sand.		17	23	29	52	SPT-11	23.50-23.95
						DS-11	24.50
		19	27	33	60	SPT-12	25.00-25.45
						DS-12	26.00
26.50m Very dense, light brownish grey, silty sand with traces of clay.		19	32	37	69	SPT-13	26.50-26.95
						DS-13	27.50
		16	29	34	63	SPT-14	28.00-28.45
						DS-14	29.00
29.50m Hard, steel grey, silty clay. Obs. brownish patches.		14	23	29	52	SPT-15	29.50-29.95
						DS-15	30.50
		15	21	26	47	SPT-16	31.00-31.45
						DS-16	32.00
32.50m Very dense, steel grey, silty sand.		23	35	40	75	SPT-17	32.50-32.95
						DS-17	33.50
		21	33	39	72	SPT-18	34.00-34.45
						DS-18	35.00
		22	31	38	69	SPT-19	35.50-35.95
						DS-19	36.50
		25	37	48	85	SPT-20	37.00-37.45
						DS-20	38.00
		28	53	50	>100	SPT-21	38.50-38.88
					8.0 cm Pentn.	DS-21	39.50
40.45m N.B. - '*' means sample could not be recovered.		26	42	51	93	SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.11

Co-ordinates E=(-)2596.000
N=3167.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 23/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.083 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.71 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists with kankar & moorum.								DS-1	0.50
								WS-1	0.71
1.45m		2	2	3				SPT-1	1.00-1.45
Very soft / soft, brownish grey, silty clay. Obs. kankars.								UDS-1	2.00-2.45
								SPT-2	3.00-3.45
3.45m		0	1	1					
Soft to medium, yellowish brown, silty clay with kankars & sand mixture.								*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
5.45m		1	2	2					
								*UDS-3	6.00-6.45
								SPT-4	7.00-7.45
Loose, deep grey, clayey silty sand.		1	3	2				*UDS-4	8.00-8.45
								SPT-5	9.00-9.45
9.45m		3	5	4					
								UDS-5	10.00-10.45
								DS-2	11.00
Medium dense, clayey silty sand.		4	8	8				SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
								DS-4	14.00
14.50m		5	9	10				SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
Very stiff, light greenish grey, silty clay / clayey silt with sand mixture.		11	11	18				SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
								DS-8	20.00
								SPT-9	20.50-20.95
21.00m		12	15	14					

BORE LOG DATA SHEET

BORE HOLE NO.11

Co-ordinates E=(-)2596.000
N=3167.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 23/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.083 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.71 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Very stiff, light greenish grey, silty clay / clayey silt with sand mixture. 21.00m 21.50m								DS-9	21.50
Dense, yellowish brown, silty sand / sandy silt with clay binder. 21.50m 25.00m		15	19	28			47	SPT-10	22.00-22.45
		10	16	19			35	DS-10	23.00
		16	28	33			61	SPT-11	23.50-23.95
Hard, brownish grey, silty clay with sand mixture. 25.00m 26.50m		29	41	48			89	DS-11	24.50
Very dense, yellowish grey, silty fine sand. 26.50m 29.50m		30	42	49			91	SPT-12	25.00-25.45
		20	24	27			51	DS-12	26.00
		27	29	42			71	SPT-13	26.50-26.95
Very dense, brownish yellow, silty sand with clay binder. 29.50m 32.50m		30	33	41			74	DS-13	27.50
		28	32	30			62	SPT-14	28.00-28.45
		12	14	18			32	DS-14	29.00
Hard, brownish grey, silty clay. Obs. yellow patches. 32.50m 38.50m		15	20	25			45	SPT-15	29.50-29.95
		19	32	35			67	DS-15	30.50
		18	25	39			64	SPT-16	31.00-31.45
Very dense, light yellow, silty fine sand. 38.50m 40.50m								DS-16	32.00
								SPT-17	32.50-32.95
								DS-17	33.50
N.B. - '*' means sample could not be recovered. 40.50m								SPT-18	34.00-34.45
								DS-18	35.00
								SPT-19	35.50-35.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.12

Co-ordinates E=(-)2507.411
N=3081.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 26/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.838 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Medium, brownish grey, silty clay with moorum & kankars.		2	2	3				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		1	1	2				SPT-2	3.00-3.45
Very loose, light grey, clayey silty sand.								*UDS-2	4.00-4.45
5.00m		2	2	3				SPT-3	5.00-5.45
Medium, deep grey, silty clay.								UDS-3	6.00-6.45
		1	3	2				SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
9.00m		4	5	5				SPT-5	9.00-9.45
Medium dense, light greenish grey / steel grey, silty sand / sandy silt.								UDS-5	10.00-10.45
		4	6	7				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
								DS-4	14.00
14.50m		5	7	12				SPT-7	14.50-14.95
Medium dense, light greenish grey, silty fine sand.								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
		11	10	15				SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
20.00m								DS-8	20.00
Dense to very dense, light grey, light yellow, silty sand.		15	21	25				SPT-9	20.50-20.95
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.12

Co-ordinates E=(-)2507.411
N=3081.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 26/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.838 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m							DS-9	21.50
Dense to very dense, light grey, light yellow, silty sand.		16	22	30	52		SPT-10	22.00-22.45
							DS-10	23.00
		17	28	33	61		SPT-11	23.50-23.95
							DS-11	24.50
25.00m		19	22	30	52		SPT-12	25.00-25.45
Hard, light greyish yellow, silty clay / clayey silt with sand mixture.		22	23	32	55		DS-12	26.00
							SPT-13	26.50-26.95
							DS-13	27.50
28.00m		17	20	22	42		SPT-14	28.00-28.45
Hard, deep brownish grey, silty clay with yellow patches.		26	28	25	53		DS-14	29.00
							SPT-15	29.50-29.95
							DS-15	30.50
31.00m		16	18	25	43		SPT-16	31.00-31.45
Hard, yellowish brown, silty clay / clayey silt. Obs. reddish spot & kankars.							DS-16	32.00
32.50m		17	23	31	54		SPT-17	32.50-32.95
Very dense, brownish grey, silty sand with clay binder. Obs. yellow patches.							DS-17	33.50
34.00m		25	30	37	67		SPT-18	34.00-34.45
Very dense, light yellow, silty sand.		26	55	50	>100		DS-18	35.00
					5.0 cm Pentn.		SPT-19	35.50-35.85
							DS-19	36.50
37.00m		31	44	45	89		SPT-20	37.00-37.45
Very dense, yellowish brown, silty coarse sand. Obs. deep yellow, silty fine sand as pocket.							DS-20	38.00
38.50m		36	42	47	89		SPT-21	38.50-38.95
Very dense, deep grey, silty sand with clay binder.							DS-21	39.50
40.45m		16	29	32	61		SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.13

Co-ordinates E=(-)2435.000
N=2974.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.853 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consists of brownish grey, silty clay with moorum.								DS-1	0.50
1.00m		1	1	1				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
								SPT-2	3.00-3.45
Very soft, light brownish grey to deep grey, silty clay.		1	0	1				*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
		0	1	1				UDS-3	6.00-6.45
6.45m								SPT-4	7.00-7.45
Medium, deep grey, silty clay with sand mixture.		1	2	2				UDS-4	8.00-8.45
								SPT-5	9.00-9.45
9.00m		2	5	7				UDS-5	10.00-10.45
Stiff, dark grey, silty clay with sand mixture.								DS-2	11.00
11.50m		9	14	21				SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
								DS-4	14.00
		7	10	13				SPT-7	14.50-14.95
								DS-5	15.50
Dense, light brownish grey to steel grey, silty sand.								UDS-7	16.00-16.45
								DS-6	17.00
		14	18	23				SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
								DS-8	20.00
20.75m		12	17	25				SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.13

Co-ordinates E=(-)2435.000
N=2974.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.853 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
20.75m Dense, light brownish grey to steel grey, silty sand.								DS-9	21.50
22.00m		13	19	27			46	SPT-10	22.00-22.45
Dense to very dens, light brownish grey, silty sand with traces of kankars.								DS-10	23.00
25.00m		15	22	29			51	SPT-11	23.50-23.95
28.00m		12	19	26			45	DS-11	24.50
Hard, light brownish grey, silty clay.								SPT-12	25.00-25.45
28.00m		13	20	27			47	DS-12	26.00
Hard, light brownish grey, silty clay with traces of sand.								SPT-13	26.50-26.95
32.50m		16	25	33			58	DS-13	27.50
32.50m		19	26	35			61	SPT-14	28.00-28.45
32.50m		17	24	37			61	DS-14	29.00
32.50m		22	35	38			73	SPT-15	29.50-29.95
32.50m		25	38	45			83	DS-15	30.50
32.50m		27	39	49			88	SPT-16	31.00-31.45
32.50m		29	42	51			93	DS-16	32.00
32.50m		31	41	54			95	SPT-17	32.50-32.95
32.50m		30	45	57			>100	DS-17	33.50
40.45m								SPT-18	34.00-34.45
N.B. - '*' means sample could not be recovered.								DS-18	35.00
								SPT-19	35.50-35.95
								DS-19	36.50
								SPT-20	37.00-37.45
								DS-20	38.00
								SPT-21	38.50-38.95
								DS-21	39.50
								SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.14

Co-ordinates E=(-)2446.114
N=2873.000

Field Test	Nos	Samples	Nos	Commencement Date : 27/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 28/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.838 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Deep brown, silty clay / clayey silt.								DS-1	0.50
1.00m		1	2	2				SPT-1	1.00-1.45
Soft to medium, yellowish brown, silty clay. Obs. steel grey patches.								UDS-1	2.00-2.45
		0	1	2				SPT-2	3.00-3.45
4.00m								*UDS-2	4.00-4.45
		1	1	2				SPT-3	5.00-5.45
Very loose to loose deep grey, silty sand.								UDS-3	6.00-6.45
		1	2	2				SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
		3	3	4				SPT-5	9.00-9.45
10.00m								*UDS-5	10.00-10.45
Medium dense, light greenish grey, silty fine sand.		7	10	11				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
14.50m		9	12	19				DS-4	14.00
Dense, light greenish grey, silty fine sand.								SPT-7	14.50-14.95
								DS-5	15.50
17.50m		12	17	19				UDS-7	16.00-16.45
Hard, light greenish grey, silty clay / clayey silt.								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
		10	15	20				DS-8	20.00
21.00m								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.14

Co-ordinates E=(-)2446.114
N=2873.000

Field Test	Nos	Samples	Nos	Commencement Date : 27/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 28/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.838 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Hard, light greenish grey, silty clay / clayey silt.		13	17	19	36		DS-9	21.50
							SPT-10	22.00-22.45
		10	23	25	48		DS-10	23.00
Hard, light greenish grey, silty clay with reddish patches.		15	21	27	48		SPT-11	23.50-23.95
							DS-11	24.50
		12	26	29	55		SPT-12	25.00-25.45
26.00m Hard, light brownish yellow, silty clay / clayey silt with steel grey patches. Obs. light yellow, silty sand in SPT-14 cutting shoe.		16	23	35	58		DS-12	26.00
							SPT-13	26.50-26.95
		14	21	25	46		DS-13	27.50
29.50m Hard, light brownish grey, silty clay with yellow patches.		27	25	28	53		SPT-14	28.00-28.45
							DS-14	29.00
		24	30	35	65		SPT-15	29.50-29.95
32.00m Hard, yellowish brown, silty clay with sand mixture.		27	25	28	53		DS-15	30.50
							SPT-16	31.00-31.45
33.50m Very dense, light brownish yellow, silty sand.		30	36	42	78		DS-16	32.00
							SPT-17	32.50-32.95
		32	39	48	87		DS-17	33.50
37.00m Very dense, light yellow, silty sand.		33	38	55	93		SPT-18	34.00-34.45
							DS-18	35.00
		35	43	52	>100		SPT-19	35.50-35.95
40.35m							DS-19	36.50
							SPT-20	37.00-37.45
							DS-20	38.00
							SPT-21	38.50-38.95
							DS-21	39.50
							SPT-22	40.00-40.35

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.15

Co-ordinates E=(-)2408.524
N=2756.123

Field Test	Nos	Samples	Nos	Commencement Date : 28/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.891 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Very soft, brownish grey, silty clay.								DS-1	0.50
		1	1	1				SPT-1	1.00-1.45
								UDS-1	2.00-2.45
3.00m									
Very loose, light brownish grey, silty clayey sand.		0	0	0				SPT-2	3.00-3.45
								UDS-2	4.00-4.45
		0	1	0				SPT-3	5.00-5.45
7.00m									
Stiff, dark grey, silty clay.		4	6	6				UDS-3	6.00-6.45
								SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m									
Medium dense, light greenish grey, clayey silty sand.		6	9	13				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
		9	14	19				DS-2	11.00
14.50m									
Medium dense, light greenish / yellowish grey, silty sand.		5	10	12				SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
17.50m									
Hard, light yellowish grey, silty clay / clayey silt with sand mixture.		10	15	16				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
20.00m									
Dense, brownish grey, silty clayey fine sand.								*UDS-7	16.00-16.45
								DS-6	17.00
		12	16	18				SPT-8	17.50-17.95
21.00m									
								DS-7	18.50
								*UDS-8	19.00-19.45
								DS-8	20.00
								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.15

Co-ordinates E=(-)2408.524
N=2756.123

Field Test	Nos	Samples	Nos	Commencement Date : 28/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.891 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Dense, brownish grey, silty clayey fine sand.								DS-9	21.50
22.00m		10	17	20				SPT-10	22.00-22.45
Dense, light greyish yellow, silty clayey sand. Obs. steel grey patches.								DS-10	23.00
		13	18	14				SPT-11	23.50-23.95
25.00m								DS-11	24.50
Dense, light whitish grey, silty sand.								SPT-12	25.00-25.45
		11	15	19				DS-12	26.00
28.00m								SPT-13	26.50-26.95
Dense to very dense, light brownish grey, silty coarse sand.								DS-13	27.50
		15	21	23				SPT-14	28.00-28.45
								DS-14	29.00
		16	19	25				SPT-15	29.50-29.95
								DS-15	30.50
		18	26	30				SPT-16	31.00-31.45
								DS-16	32.00
		24	42	50				SPT-17	32.50-32.95
								DS-17	33.50
		22	40	52				SPT-18	34.50-34.95
								DS-18	35.00
		21	39	56				SPT-19	35.50-35.95
								DS-19	36.50
		18	35	46				SPT-20	37.00-37.45
								DS-20	38.00
38.00m		23	40	49				SPT-21	38.50-38.95
Very dense, brownish grey / yellowish grey, silty coarse sand. Obs. broken gravels pieces.								DS-21	39.50
		24	38	45				SPT-22	40.00-40.45
40.45m									
		31	49	52					
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.16

Co-ordinates E=(-)2328.524
N=2654.231

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.915 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Very soft, brownish grey, silty clay.		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
Very soft, dark grey, silty clay / clayey silt.								UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.00m		2	2	3				SPT-4	7.00-7.45
Loose, dark grey, silty clayey coarse sand. Obs. traces of kankars.								UDS-4	8.00-8.45
		2	3	4				SPT-5	9.00-9.45
								*UDS-5	10.00-10.45
9.00m								DS-2	11.00
Loose, light greenish grey, silty sand.		6	8	11				SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
11.50m		4	10	14				DS-4	14.00
Medium dense, whitish grey, silty sand. Obs. brown patches.								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.95m		7	11	12				DS-6	17.00
Dense, light yellowish grey, silty clayey sand.								SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
21.00m		10	15	18				DS-8	20.00
								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.16

Co-ordinates E=(-)2328.524
N=2654.231

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.915 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m								DS-9	21.50
		9	13	16				SPT-10	22.00-22.45
						29		DS-10	23.00
								SPT-11	23.50-23.95
		11	16	19				DS-11	24.50
						35		SPT-12	25.00-25.45
		10	12	21				DS-12	26.00
26.00m								SPT-13	26.50-26.95
		17	28	39				DS-13	27.50
						67		SPT-14	28.00-28.45
		20	31	38				DS-14	29.00
						69		SPT-15	29.50-29.95
		25	38	57				DS-15	30.50
						84		SPT-16	31.00-31.45
		27	35	49				DS-16	32.00
32.00m								SPT-17	32.50-32.95
		27	30	36				DS-17	33.50
						66		SPT-18	34.00-34.45
		26	35	40				DS-18	35.00
						75		SPT-19	35.50-35.95
		21	33	38				DS-19	36.50
						71		SPT-20	37.00-37.45
		25	37	42				DS-20	38.00
						79		SPT-21	38.50-38.95
38.50m						>100		DS-21	39.50
		19	55	61				SPT-22	40.00-40.45
40.45m									
		35	38	51					
						89			

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.17

Co-ordinates E=(-)2344.182
N=2536.638

Field Test	Nos	Samples	Nos	Commencement Date : 28/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.884 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Soft, light brownish grey, silty clay.		2	2	2			4	DS-1	0.50
								SPT-1	1.00-1.45
2.50m								*UDS-1	2.00-2.45
Very loose, light grey, clayey silty sand.		0	1	1			2	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
4.50m									
		0	0	1			1	SPT-3	5.00-5.45
								UDS-3	6.00-6.45
		0	1	1			2	SPT-4	7.00-7.45
Very loose, deep grey, clayey silty sand.								UDS-4	8.00-8.45
		1	2	2			4	SPT-5	9.00-9.45
								*UDS-5	10.00-10.45
11.00m									
Medium dense, light grey, clayey silty sand.		5	7	12			19	DS-2	11.00
								SPT-6	11.50-11.95
13.00m								DS-3	12.50
								UDS-6	13.00-13.45
		9	12	17			29	DS-4	14.00
Medium dense, light greenish grey, clayey silty sand.								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.00m									
Medium dense, light yellowish grey, clayey silty sand. Obs. steel grey patches.		8	10	11			21	DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m									
Dense, light brownish grey, clayey sand.		10	14	21			35	DS-8	20.00
21.00m								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.17

Co-ordinates E=(-)2344.182
N=2536.638

Field Test	Nos	Samples	Nos	Commencement Date : 28/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.884 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense, light brownish grey, clayey sand.		16	21	30	51		DS-9	21.50
21.50m							SPT-10	22.00-22.45
Hard, light brownish grey, sandy silty clay.		14	21	27	48		DS-10	23.00
24.50m							SPT-11	23.50-23.95
Dense, light brownish grey, clayey silty sand. Obs. yellow patches.		12	17	25	42		DS-11	24.50
28.00m							SPT-12	25.00-25.45
		13	18	23	41		DS-12	26.00
							SPT-13	26.50-26.95
							DS-13	27.50
Very dense, steel grey, clayey silty sand.		22	34	41	75		SPT-14	28.00-28.45
31.00m							DS-14	29.00
		23	36	43	79		SPT-15	29.50-29.95
							DS-15	30.50
							SPT-16	31.00-31.45
Very dense, light brownish grey, silty sand.		26	43	47	90		DS-16	32.00
36.50m							SPT-17	32.50-32.95
		27	40	46	86		DS-17	33.50
							SPT-18	34.00-34.45
		24	45	48	93		DS-18	35.00
							SPT-19	35.50-35.95
		28	42	57	99		DS-19	36.50
							SPT-20	37.00-37.35
Very dense, light brownish grey, silty sand. Obs. traces of kankars & gravels.		38	84	50	>100	5.0 cm Pentn.	DS-20	38.00
40.45m							SPT-21	38.50-38.85
		40	88	50	>100	5.0 cm Pentn.	DS-21	39.50
							SPT-22	40.00-40.45
		42	86	50	>100	15.0 cm Pentn.		

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.18

Co-ordinates E=(-)2253.000
N=2460.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.427 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Loose, light brownish grey, clayey silty sand.		2	3	3	6			DS-1 SPT-1	0.50 1.00-1.45
2.50m Very soft, deep grey, silty clay / clayey silt with sand.		0	0	0	0			*UDS-1 SPT-2	2.00-2.45 3.00-3.45
					1			*UDS-2 SPT-3	4.00-4.45 5.00-5.45
		0	1	2	3			UDS-3 SPT-4	6.00-6.45 7.00-7.45
8.00m Very loose, light grey, clayey silty sand.		1	2	2	4			UDS-4 SPT-5	8.00-8.45 9.00-9.45
					7			*UDS-5	10.00-10.45
11.00m Loose, light whitish grey, clayey silty sand.		2	3	4	9			DS-2 SPT-6	11.00 11.50-11.95
					57			DS-3 UDS-6	12.50 13.00-13.45
14.50m Very dense, light greenish grey, silty sand.		15	25	32	72			DS-4 SPT-7	14.00 14.50-14.95
					24			DS-5 UDS-7	15.50 16.00-16.45
17.00m Medium dense, light brownish grey, clayey silty sand.		7	9	15	31			DS-6 SPT-8	17.00 17.50-17.95
					86			DS-7 UDS-8	18.50 19.00-19.45
20.00m Hard, light greenish grey, sandy silty clay. Obs. yellow patches.		15	30	56	101			DS-8 SPT-9	20.00 20.50-20.95
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.18

Co-ordinates E=(-)2253.000
N=2460.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.427 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m							DS-9	21.50
Hard, light greenish grey, sandy silty clay. Obs. yellow patches.		15	27	50	5	82	SPT-10	22.00-22.45
						74	DS-10	23.00
		15	24	50			SPT-11	23.00-23.45
24.50m							DS-11	24.50
Very dense, light grey, silty clayey sand. Obs. brown spots.		16	28	30		58	SPT-12	25.00-25.45
						59	DS-12	26.00
		17	30	29			SPT-13	26.50-26.95
28.00m							DS-13	27.50
		23	36	40		76	SPT-14	28.00-28.45
						82	DS-14	29.00
		26	40	42			SPT-15	29.50-29.95
						>100	DS-15	30.50
		25	41	60			SPT-16	31.00-31.45
						>100	DS-16	32.00
		24	40	63			SPT-17	32.50-32.95
						89	DS-17	33.50
		25	37	52			SPT-18	34.00-34.45
						84	DS-18	35.00
		24	34	50			SPT-19	35.50-35.95
						>100	DS-19	36.00
		50	79	50			SPT-20	37.00-37.35
				5.0	cm Pentn.		DS-20	38.00
						>100	SPT-21	38.50-38.85
		56	86	50			DS-21	39.50
				5.0	cm Pentn.		SPT-22	40.00-40.35
						>100		
40.35m		55	89	50				
				5.0	cm Pentn.			

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.19

Co-ordinates E=(-2168.000
N=2375.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.143 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Soft, brownish grey, silty clay.								DS-1	0.50
1.00m		2	2	1				SPT-1	1.00-1.45
Very loose, light brownish grey, clayey silty sand.								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
Very loose, deep grey, clayey silty sand. Obs. clay pocket in UDS-04.								UDS-3	6.00-6.45
		0	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		0	1	2				SPT-5	9.00-9.45
Very loose, light grey, clayey silty sand.								UDS-5	10.00-10.45
11.50m		5	11	13				DS-2	11.00
								SPT-6	11.50-11.95
Medium dense, light greenish grey, silty sand.								DS-3	12.50
								*UDS-6	13.00-13.45
14.50m		13	21	29				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
Very dense, light brownish grey, clayey silty sand.								*UDS-7	16.00-16.45
		16	20	33				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
20.00m								DS-8	20.00
Hard, light grey, silty clay / clayey silt with sand.		9	14	21				SPT-9	20.50-20.95
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.19

Co-ordinates E=(-)2168.000
N=2375.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.143 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Hard, light grey, silty clay / clayey silt with sand.		21	33	40	73			DS-9	21.50
								SPT-10	22.00-22.45
23.50m Dense, light grey, silty sand.		12	15	25	40			DS-10	23.00
								SPT-11	23.50-23.95
25.00m Hard, light brownish grey, silty clay.		12	18	24	42			DS-11	24.50
								SPT-12	25.00-25.45
		20	24	36	60			DS-12	26.00
								SPT-13	26.50-26.95
27.50m Very dense, light brownish grey, clayey silty coarse sand.		20	26	42	68			DS-13	27.50
								SPT-14	28.00-28.45
		24	40	55	95			DS-14	29.00
								SPT-15	29.50-29.95
		23	44	63	>100			DS-15	30.50
								SPT-16	31.00-31.45
		23	39	63	>100			DS-16	32.00
								SPT-17	32.50-32.95
34.00m		25	34	53	87			DS-17	33.50
								SPT-18	34.00-34.45
		21	40	57	97			DS-18	35.00
								SPT-19	35.50-35.95
Very dense, light brownish grey, silty sand.		24	42	50	92			DS-19	36.50
								SPT-20	37.00-37.45
		27	36	56	92			DS-20	38.00
								SPT-21	38.50-38.95
40.45m		25	39	52	91			DS-21	39.50
								SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.20

Co-ordinates E=(-)2095.000
N=2288.000

Field Test	Nos	Samples	Nos	Commencement Date : 22/01/15
Penetrometer (SPT)	19	Undisturbed (UDS)	8	Completion Date : 23/01/15
Cone (Pc)		Penetrometer (SPT)	19	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	18	Level Of Ground : 7.78 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Very soft, brownish grey, silty clay.								DS-1	0.50
1.00m		2	1	1				SPT-1	1.00-1.45
Very loose, light brownish grey, clayey silty sand.								*UDS-1	2.00-2.45
		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
5.00m		0	0	0				SPT-3	5.00-5.45
Very loose, dark grey, clayey silty sand.								UDS-3	6.00-6.45
		0	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		5	9	18				SPT-5	9.00-9.45
Medium dense, light greenish grey, clayey silty sand.								UDS-5	10.00-10.45
		8	11	14				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.00m		8	10	11				DS-4	14.00
Medium dense, light whitish grey, silty sand. Obs. yellow patches.								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.00m		7	9	10				DS-6	17.00
Medium dense, light grey, clayey silty sand. Obs. yellow spots.								SPT-8	17.50-17.95
18.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

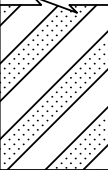
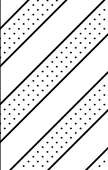
Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.20

Co-ordinates E=(-)2095.000
N=2288.000

Field Test	Nos	Samples	Nos	Commencement Date : 22/01/15
Penetrometer (SPT)	19	Undisturbed (UDS)	8	Completion Date : 23/01/15
Cone (Pc)		Penetrometer (SPT)	19	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	18	Level Of Ground : 7.78 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
18.00m Medium dense, light grey, clayey silty sand. Obs. yellow spots.							DS-7	18.50
							*UDS-8	19.00-19.45
20.00m Hard, grey, sandy silty clay.		10	0	0	0	44 19 25	DS-8	20.00
							SPT-9	20.50-20.95
							DS-9	21.50
22.00m Very dense to dense, light brownish grey, clayey silty sand.		11	0	0	0	51 21 30	SPT-10	22.00-22.45
							DS-10	23.00
		11	0	0	0	54 23 31	SPT-11	23.50-23.95
							DS-11	24.50
		13	0	0	0	41 17 24	SPT-12	25.00-25.45
							DS-12	26.00
		14	0	0	0	45 18 27	SPT-13	26.50-26.95
							DS-13	27.50
		15	0	0	0	47 21 26	SPT-14	28.00-28.45
							DS-14	29.00
		15	0	0	0	48 20 28	SPT-15	29.50-29.95
30.50m							DS-15	30.50
		35	0	0	45	50 7	SPT-16	31.00-31.45
							DS-16	32.00
		36	0	0	47	30 30	SPT-17	32.50-32.95
							DS-17	33.50
		43	50	50	0	0	SPT-18	34.00-34.35
						5.0 cm Pentn.	DS-18	35.00
N.B. - '*' means sample could not be recovered.		45	50	50	0	0	SPT-19	35.50-35.85
35.85m						5.0 cm Pentn.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 28/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.21

Co-ordinates E=(-)2036.000
N=2182.000

Field Test	Nos	Samples	Nos	Commencement Date : 20/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.243 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm.							Ref. No	Depth (m)
Very loose, clayey silty sand with reddish & brownish yellow patches.	0.00m								DS-1	0.50
	1.00m	2	1	1					SPT-1	1.00-1.45
									UDS-1	2.00-2.45
		0	0	0					SPT-2	3.00-3.45
Very loose to loose, grey to deep grey, clayey silty sand.									*UDS-2	4.00-4.45
		0	0	0					SPT-3	5.00-5.45
									*UDS-3	6.00-6.45
	7.00m	1	3	4					SPT-4	7.00-7.45
Loose, light greenish grey, clayey silty sand.	8.45m								UDS-4	8.00-8.45
		5	11	19					SPT-5	9.00-9.45
Very stiff, steel grey, silty clay with sand mixture.	11.00m								UDS-5	10.00-10.45
		8	11	14					DS-2	11.00
Medium dense, light greenish grey, clayey silty sand. Obs. yellow spots.	14.50m								SPT-6	11.50-11.95
									DS-3	12.50
									*UDS-6	13.00-13.45
	17.50m	8	10	11					DS-4	14.00
Medium dense, light yellowish grey, clayey silty sand.									SPT-7	14.50-14.95
									DS-5	15.50
									*UDS-7	16.00-16.45
	20.50m	7	9	10					DS-6	17.00
Medium dense, light brownish grey, clayey silty sand.	21.00m								SPT-8	17.50-17.95
									DS-7	18.50
									*UDS-8	19.00-19.45
Dense to very dense, light brownish grey, clayey silty sand. Obs. yellow & red spots.		10	19	25					DS-8	20.00
									SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 28/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.21

Co-ordinates E=(-)2036.000
N=2182.000

Field Test	Nos	Samples	Nos	Commencement Date : 20/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 7.243 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m							DS-9	21.50
		11	21	30		51	SPT-10	22.00-22.45
							DS-10	23.00
		12	23	31		54	SPT-11	23.50-23.95
							DS-11	24.50
		14	25	40		65	SPT-12	25.00-25.45
							DS-12	26.00
		16	24	43		67	SPT-13	26.50-26.95
27.50m							DS-13	27.50
		15	23	32		55	SPT-14	28.00-28.45
							DS-14	29.00
		14	21	26		47	SPT-15	29.50-29.95
30.80m							DS-15	30.50
		29	42	45		87	SPT-16	31.00-31.45
							DS-16	32.00
		32	47	52		99	SPT-17	32.50-32.95
34.00m							DS-17	33.50
		13	24	28		52	SPT-18	34.00-34.45
							DS-18	35.00
35.50m		14	32	33		65	SPT-19	35.50-35.95
							DS-19	36.50
		30	50	57		>100	SPT-20	37.00-37.45
							DS-20	38.00
		33	52	60		>100	SPT-21	38.50-38.95
							DS-21	39.50
		32	50	52		>100	SPT-22	40.00-40.45
40.45m								

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.22

Co-ordinates E=(-)1967.000
N=2061.000

Field Test	Nos	Samples	Nos	Commencement Date : 18/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.599 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.35 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								WS-1	0.35
Filled up soil consists of silty clayey reddish brown moorum.								DS-1	0.50
		2	1	1			2	SPT-1	1.00-1.45
2.00m								UDS-1	2.00-2.45
Loose, deep grey, silty sand.		1	1	1			2	SPT-2	3.00-3.45
								UDS-2	4.00-4.45
		0	0	1			1	SPT-3	5.00-5.45
6.00m								UDS-3	6.00-6.45
Very soft, deep grey, silty clay.		0	1	1			2	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		6	12	16			28	SPT-5	9.00-9.45
Medium dense to dense, light greenish grey, clayey silty sand.								UDS-5	10.00-10.45
		13	17	23			40	DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
14.00m		7	11	16			27	UDS-6	13.00-13.45
Medium dense, light greenish grey, silty sand.								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
		6	12	17			29	UDS-7	16.00-16.45
								DS-6	17.00
18.50m								SPT-8	17.50-17.95
Dense, light yellowish grey, silty sand.								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
21.00m		10	17	28			45	SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.22

Co-ordinates E=(-)1967.000
N=2061.000

Field Test	Nos	Samples	Nos	Commencement Date : 18/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.599 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.35 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Dense, light yellowish grey, silty sand.	21.00m 21.50m	12	22	28	50		DS-9	21.50
							SPT-10	22.00-22.45
		13	23	29	52		DS-10	23.00
							SPT-11	23.50-23.95
		17	25	34	59		DS-11	24.50
							SPT-12	25.00-25.45
		21	29	39	68		DS-12	26.00
							SPT-13	26.50-26.95
		19	30	36	66		DS-13	27.50
							SPT-14	28.00-28.45
		19	32	35	67		DS-14	29.00
							SPT-15	29.50-29.95
		21	35	47	82		DS-15	30.50
							SPT-16	31.00-31.45
							DS-16	32.00
Very dense, brownish yellow, silty medium sand.	32.50m 33.50m	24	54	69	>100		SPT-17	32.50-32.95
							DS-17	33.50
		25	42	53	95		SPT-18	34.00-34.45
							DS-18	35.00
		27	89	50	>100		SPT-19	35.50-35.85
							DS-19	36.50
		25	59	71	>100		SPT-20	37.00-37.45
							DS-20	38.00
		29	49	63	>100		SPT-21	38.50-38.95
							DS-21	39.50
		35	60	50	>100		SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.23

Co-ordinates E=(-)219.000
N=1293.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/01/15
Penetrometer (SPT)	15	Undisturbed (UDS)	8	Completion Date : 27/01/15
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 10.345 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of yellowish brown, silty sand.								DS-1	0.50
1.00m		6	9	11			20	SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
		7	10	14			24	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Medium dense to dense, light yellowish grey to steel grey, silty sand.		8	10	15			25	SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		10	14	19			33	SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
8.50m		3	5	5			10	SPT-5	9.00-9.45
								UDS-5	10.00-10.45
								DS-2	11.00
Loose to medium dense, deep grey, clayey silty sand.		4	5	6			11	SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
								DS-4	14.00
15.00m		6	8	10			18	SPT-7	14.50-14.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.23

Co-ordinates E=(-)219.000
N=1293.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/01/15
Penetrometer (SPT)	15	Undisturbed (UDS)	8	Completion Date : 27/01/15
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 10.345 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Loose to medium dense, deep grey, clayey silty sand.	15.00m 15.50m						DS-5	15.50
							UDS-7	16.00-16.45
							DS-6	17.00
Dense, light greenish grey, silty sand.		11	18	23	41		SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.45
	20.00m						DS-8	20.00
		30	42	49	91		SPT-9	20.50-20.95
Very dense, light yellowish / greenish grey, silty sand.							DS-9	21.50
		14	24	32	56		SPT-10	22.00-22.45
							DS-10	23.00
		17	25	34	59		SPT-11	23.50-23.95
	24.50m						DS-11	24.50
		33	51	57	>100		SPT-12	25.00-25.45
							DS-12	26.00
		42	55	50	>100		SPT-13	26.50-26.90
Very dense, light greenish grey / steel grey, silty sand.				10.0 cm	Pentr.		DS-13	27.50
		39	52	50	>100		SPT-14	28.00-28.40
				10.0 cm	Pentr.		DS-14	29.00
N.B. - '*' means sample could not be recovered.	29.88m	36	66	50	>100		SPT-15	29.50-29.88
				8.0 cm	Pentr.			

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.24

Co-ordinates E=(-)209.000
N=1177.000

Field Test	Nos	Samples	Nos	Commencement Date : 25/01/15
Penetrometer (SPT)	15	Undisturbed (UDS)	8	Completion Date : 25/01/15
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 10.192 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Deep brownish yellow, silty sand.								DS-1	0.50
1.00m		5	7	9			16	SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
		7	10	12			22	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Medium dense, grey to steel grey, silty sand.		8	11	14			25	SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		8	12	16			28	SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
8.50m		3	4	4			8	SPT-5	9.00-9.45
Medium, deep grey, silty clay.								UDS-5	10.00-10.45
								DS-2	11.00
11.50m		6	9	16			25	SPT-6	11.50-11.95
Medium dense, deep grey, clayey silty sand.								DS-3	12.50
								UDS-6	13.00-13.45
14.00m								DS-4	14.00
Dense, deep grey, clayey silty sand.		13	16	22			38	SPT-7	14.50-14.95
								DS-5	15.50
16.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

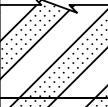
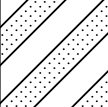
Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.24

Co-ordinates E=(-)209.000
N=1177.000

Field Test	Nos	Samples	Nos	Commencement Date : 25/01/15
Penetrometer (SPT)	15	Undisturbed (UDS)	8	Completion Date : 25/01/15
Cone (Pc)		Penetrometer (SPT)	15	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 10.192 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
16.00m Dense, deep grey, clayey silty sand.							UDS-7	16.00-16.45
17.00m							DS-6	17.00
Dense to very dense, light greenish yellowish grey, silty sand.		16	20	26	46		SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.45
							DS-8	20.00
21.50m Very dense, yellowish grey, silty sand.		18	26	29	55		SPT-9	20.50-20.95
							DS-9	21.50
		31	37	44	81		SPT-10	22.00-22.45
							DS-10	23.00
		28	39	47	86		SPT-11	23.50-23.95
							DS-11	24.50
		29	48	65	>100		SPT-12	25.00-25.45
							DS-12	26.00
		31	69	50	>100		SPT-13	26.50-26.90
						10.0 cm Pentn.	DS-13	27.50
		34	71	50	>100		SPT-14	28.00-28.40
						10.0 cm Pentn.	DS-14	29.00
		39	76	50	>100		SPT-15	29.50-29.88
29.88m						8.0 cm Pentn.		

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.25

Co-ordinates E=(-)124.000
N=1092.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	16	Undisturbed (UDS)	8	Completion Date : 24/01/15
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	15	Level Of Ground : 10.282 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m Filled up soil consists of brownish yellow, silty sand.							DS-1	0.50
1.00m Medium dense, brownish yellow, silty sand.		6	11	16	27		SPT-1	1.00-1.45
2.50m							*UDS-1	2.00-2.45
							WS-1	2.90
		10	17	23	40		SPT-2	3.00-3.45
Medium dense, steel grey, silty sand.							*UDS-2	4.00-4.45
		12	20	23	43		SPT-3	5.00-5.45
6.00m							*UDS-3	6.00-6.45
Dense, steel grey, silty sand.		7	13	16	29		SPT-4	7.00-7.45
							*UDS-4	8.00-8.45
8.50m		5	7	10	17		SPT-5	9.00-9.45
							UDS-5	10.00-10.45
							DS-2	11.00
Medium dense, deep brown / light greenish grey, clayey silty sand.		6	8	12	20		SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
							DS-4	14.00
		5	7	9	16		SPT-7	14.50-14.95
							DS-5	15.50
16.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

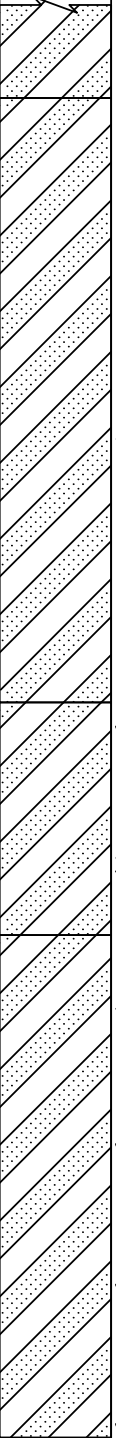
Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.25

Co-ordinates E=(-)124.000
N=1092.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/01/15
Penetrometer (SPT)	16	Undisturbed (UDS)	8	Completion Date : 24/01/15
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	15	Level Of Ground : 10.282 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
16.00m Medium dense, deep brown / light greenish grey, clayey silty sand.							UDS-7	16.00-16.45
17.00m							DS-6	17.00
		13	19	23	42		SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.45
							DS-8	20.00
Dense, light greenish grey, silty sand.		14	18	23	41		SPT-9	20.50-20.95
							DS-9	21.50
		16	21	25	46		SPT-10	22.00-22.45
							DS-10	23.00
23.50m		33	51	50	>100		SPT-11	23.50-23.90
Very dense, steel grey to grey, silty sand.					10.0 cm Pentn.		DS-11	24.50
		22	30	39	69		SPT-12	25.00-25.45
							DS-12	26.00
26.00m		29	62	50	>100		SPT-13	26.50-26.90
					10.0 cm Pentn.		DS-13	27.50
		36	60	50	>100		SPT-14	28.00-28.38
Very dense, steel grey, silty sand. Obs. greyish patches.					8.0 cm Pentn.		DS-14	29.00
		32	61	50	>100		SPT-15	29.50-29.90
					10.0 cm Pentn.		DS-15	30.50
		33	66	50	>100		SPT-16	31.00-31.40
					10.0 cm Pentn.			
31.40m N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 28/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.26

Co-ordinates E=(-)24.000
N=1054.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 22/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.79 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m Filled up soil consists of brownish yellow, silty sand & stone chips & kankars.							DS-1	0.50
1.00m		17	26	31		57	SPT-1	1.00-1.45
Very dense, brownish yellow, silty sand with traces of kankars.							*UDS-1	2.00-2.45
3.00m		8	16	17		33	SPT-2	3.00-3.45
Dense, steel grey, silty sand. Obs. brownish patches.							*UDS-2	4.00-4.45
5.00m		9	14	19		33	SPT-3	5.00-5.45
Dense, grey, silty sand.							*UDS-3	6.00-6.45
7.00m		6	12	15		27	SPT-4	7.00-7.45
Medium dense, brownish yellow, silty sand.							*UDS-4	8.00-8.45
9.00m		3	5	7		12	SPT-5	9.00-9.45
Medium dense, deep grey, clayey sand.							UDS-5	10.00-10.45
10.00m							DS-2	11.00
Medium dense, deep brownish grey, clayey silty sand.		2	6	9		15	SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
		4	7	10		17	DS-4	14.00
							SPT-7	14.50-14.95
15.50m							DS-5	15.50
							UDS-7	16.00-16.45
							DS-6	17.00
		12	16	17		33	SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.45
							DS-8	20.00
		10	18	22		40	SPT-9	20.50-20.95
21.00m Dense, light greenish grey to steel grey, silty sand. Obs. clay pocket in SPT-04.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 28/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.26

Co-ordinates E=(-)24.000
N=1054.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 22/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.79 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Dense, light greenish grey to steel grey, silty sand. Obs. clay pocket in SPT-04.	21.00m 21.50m	13	16	19	35		DS-9	21.50
							SPT-10	22.00-22.45
Dense, steel grey, silty sand with traces of clay lamination. Obs. greyish patches.		12	19	23	42		DS-10	23.00
							SPT-11	23.50-23.95
							DS-11	24.50
	25.00m	22	29	37	66		SPT-12	25.00-25.45
Very dense, yellowish grey, silty medium to coarse sand.							DS-12	26.00
		53	71	50	>100		SPT-13	26.50-26.95
					15.0 cm Pentn.		DS-13	27.50
	28.00m	19	23	29	52		SPT-14	28.00-28.45
Hard, light yellowish grey, silty clay.	29.00m						DS-14	29.00
		35	69	50	>100		SPT-15	29.50-29.95
					15.0 cm Pentn.		DS-15	30.50
		31	55	50	>100		SPT-16	31.00-31.40
					10.0 cm Pentn.		DS-16	32.00
		34	49	63	>100		SPT-17	32.50-32.95
							DS-17	33.50
		28	51	59	>100		SPT-18	34.00-34.45
Very dense, yellowish grey, silty sand.							DS-18	35.00
		26	52	63	>100		SPT-19	35.50-35.95
							DS-19	36.50
		38	55	50	>100		SPT-20	37.00-37.40
					10.0 cm Pentn.		DS-20	38.00
		31	50	50	>100		SPT-21	38.50-38.88
					8.0 cm Pentn.		DS-21	39.50
		36	75	50	>100		SPT-22	40.00-40.35
	40.45m				5.0 cm Pentn.			

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.27

Co-ordinates E=44.466
N=1027.945

Field Test	Nos	Samples	Nos	Commencement Date : 22/01/15
Penetrometer (SPT)	18	Undisturbed (UDS)	8	Completion Date : 23/01/15
Cone (Pc)		Penetrometer (SPT)	18	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	17	Level Of Ground : 10.226 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consists of brownish yellow, silty sand.									
1.00m		5	10	17				DS-1	0.50
					27			SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
Medium dense to dense, brownish yellow, silty sand.		8	13	21				SPT-2	3.00-3.45
					34			*UDS-2	4.00-4.45
5.00m		3	5	6				SPT-3	5.00-5.45
					11			UDS-3	6.00-6.45
Medium dense to loose, steel grey, silty sand.		3	4	5				SPT-4	7.00-7.45
					9			*UDS-4	8.00-8.45
9.00m		4	6	9				SPT-5	9.00-9.45
					15			UDS-5	10.00-10.45
Medium dense, deep brownish grey to light greenish grey, clayey silty sand.		6	9	15				DS-2	11.00
					24			SPT-6	11.50-11.95
								DS-3	12.50
14.00m								UDS-6	13.00-13.45
		10	15	20				DS-4	14.00
					35			SPT-7	14.50-14.95
Dense, light greenish grey to steel grey, silty sand.								DS-5	15.50
								UDS-7	16.00-16.45
								DS-6	17.00
18.00m		15	17	28				SPT-8	17.50-17.95
					45				

BH-27/Sheet-1

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.27

Co-ordinates E=44.466
N=1027.945

Field Test	Nos	Samples	Nos	Commencement Date : 22/01/15
Penetrometer (SPT)	18	Undisturbed (UDS)	8	Completion Date : 23/01/15
Cone (Pc)		Penetrometer (SPT)	18	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	17	Level Of Ground : 10.226 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
18.00m Dense, light greenish grey to steel grey, silty sand.							DS-7	18.50
							*UDS-8	19.00-19.45
							DS-8	20.00
20.50m Dense, steel grey, silty sand. Obs. greyish patches.		16	20	25	45		SPT-9	20.50-20.95
							DS-9	21.50
		14	19	23	42		SPT-10	22.00-22.45
							DS-10	23.00
		15	21	26	47		SPT-11	23.50-23.95
24.50m Very dense, yellowish grey, silty coarse sand.							DS-11	24.50
		23	33	42	75		SPT-12	25.00-25.45
							DS-12	26.00
		54	69	60	>100		SPT-13	26.50-26.85
					5.0 cm Pentn.		DS-13	27.50
27.50m Hard, brownish yellow, silty clay.							SPT-14	28.00-28.45
		18	27	30	57		DS-14	29.00
29.00m Very dense, yellowish grey, silty sand.							SPT-15	29.50-29.88
		42	76	50	>100		DS-15	30.50
					8.0 cm Pentn.		SPT-16	31.00-31.40
		35	71	50	>100		DS-16	32.00
					10.0 cm Pentn.		SPT-17	32.50-32.90
		33	65	50	>100		DS-17	33.50
					10.0 cm Pentn.		SPT-18	34.00-34.35
34.35m		43	72	50	>100			
					5.0 cm Pentn.			

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.28

Co-ordinates E=(-)2560.000
N=4061.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 02/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.081 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	0			0	SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.45m							0		
		0	0	0				SPT-2	3.00-3.45
								UDS-2	4.00-4.45
Very soft, deep grey, silty clay / clayey silt with sand.							0		
		0	0	1			1	SPT-3	5.00-5.45
								UDS-3	6.00-6.45
8.00m							0		
		0	1	1			2	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
Medium, brownish grey to steel grey, silty clay with sand mixture.							2		
		2	3	3			6	SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.50m							2		
		2	3	5			8	SPT-6	11.50-11.95
								DS-3	12.50
Medium, steel grey, silty sand with clay mixture.								UDS-6	13.00-13.45
								DS-4	14.00
							15		
14.50m		4	6	9				SPT-7	14.50-14.95
Medium dense, yellowish grey, silty fine sand. Obs. clay lamination.								DS-5	15.50
								UDS-7	16.00-16.45
								DS-6	17.00
17.50m		7	17	23			40	SPT-8	17.50-17.95
Hard, yellowish grey, clayey silt with fine sand mixture.								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.28

Co-ordinates E=(-)2560.000
N=4061.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 02/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.081 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Dense to very dense, brownish to yellowish grey, silty sand with traces of clay binders.		15	18	25	43	SPT-9	20.50-20.95
						DS-9	21.50
		11	20	27	47	SPT-10	22.00-22.45
						DS-10	23.00
		12	22	27	49	SPT-11	23.50-23.95
						DS-11	24.50
Hard, brownish grey, silty clay with traces of sand mixture.		16	25	31	56	SPT-12	25.00-25.45
						DS-12	26.00
		18	33	44	77	SPT-13	26.50-26.95
						DS-13	27.50
		16	28	33	61	SPT-14	28.00-28.45
						DS-14	29.00
Very dense, brownish grey, silty sand.		12	22	34	56	SPT-15	29.50-29.95
						DS-15	30.50
		21	39	45	84	SPT-16	31.00-31.45
						DS-16	32.00
		16	26	38	64	SPT-17	32.50-32.95
						DS-17	33.50
Very dense, yellowish grey, silty medium to coarse sand. Obs. clay laminated.		16	27	38	65	SPT-18	34.00-34.45
						DS-18	35.00
		18	27	41	68	SPT-19	35.50-35.95
						DS-19	36.50
		19	28	44	72	SPT-20	37.00-37.45
						DS-20	38.00
N.B. - '*' means sample could not be recovered.		22	46	52	98	SPT-21	38.50-38.95
						DS-21	39.50
		36	47	52	>100	SPT-22	40.00-40.41
					11.0 cm Penth.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.29

Co-ordinates E=2487.000
N=4132.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 28/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.494 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consists of light grey, fly ash.		0	0	0	0	0	0	DS-1	0.50
		0	0	0	0	0	0	SPT-1	1.00-1.45
2.50m Very soft, brownish grey, silty clay / clayey silt with sand mixture.		0	0	1	0	0	1	*UDS-1	2.00-2.45
		0	0	1	0	0	1	SPT-2	3.00-3.45
		0	1	0	0	0	1	*UDS-2	4.00-4.45
5.00m Very soft, deep grey, silty clay / clayey silt with sand mixture.		0	1	0	0	0	1	SPT-3	5.00-5.45
		0	1	1	0	0	2	*UDS-3	6.00-6.45
		0	1	1	0	0	2	SPT-4	7.00-7.45
		0	3	4	0	0	7	UDS-4	8.00-8.45
9.00m Loose, light greenish grey, silty sand / sandy silt.		0	3	4	0	0	7	SPT-5	9.00-9.45
		4	7	8	0	0	15	*UDS-5	10.00-10.45
11.00m Medium dense, light greenish grey, silty sand / sandy silt.		4	7	8	0	0	15	DS-2	11.00
		7	9	15	0	0	24	SPT-6	11.50-11.95
		7	9	15	0	0	24	DS-3	12.50
14.50m Very stiff, light greenish grey, silty clay / clayey silt.		7	9	15	0	0	24	*UDS-6	13.00-13.45
		9	12	16	0	0	28	DS-4	14.00
		9	12	16	0	0	28	SPT-7	14.50-14.95
17.50m Very stiff, yellowish grey, silty clay / clayey silt with sand mixture & steel grey patches.		9	12	16	0	0	28	DS-5	15.50
		18	25	35	0	0	60	*UDS-7	16.00-16.45
		18	25	35	0	0	60	DS-6	17.00
20.50m Very dense, light yellowish grey, silty sand / sandy silt.		18	25	35	0	0	60	SPT-8	17.50-17.95
21.00m		18	25	35	0	0	60	DS-7	18.50
		18	25	35	0	0	60	UDS-8	19.00-19.45
		18	25	35	0	0	60	DS-8	20.00
		18	25	35	0	0	60	SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.29

Co-ordinates E=2487.000
N=4132.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 28/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.494 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Very dense, light yellowish grey, silty sand / sandy silt.		19	24	33	57			DS-9	21.50
								SPT-10	22.00-22.45
		21	37	39	76			DS-10	23.00
								SPT-11	23.50-23.95
								DS-11	24.50
25.00m Hard, light steel grey / light grey, silty clay with traces of sand mixture.		15	27	37	64			SPT-12	25.00-25.45
								DS-12	26.00
		16	31	40	71			SPT-13	26.50-26.95
								DS-13	27.50
		17	31	43	74			SPT-14	28.00-28.45
								DS-14	29.00
		19	33	43	76			SPT-15	29.50-29.95
								DS-15	30.50
31.00m Hard, brownish grey, silty clay / clayey silt with sand mixture. Obs. yellow patches.		15	23	32	55			SPT-16	31.00-31.45
								DS-16	32.00
		17	22	35	57			SPT-17	32.50-32.95
								DS-17	33.50
34.00m Hard, steel grey, silty clay / clayey silt. Obs. yellow patches.		20	22	39	61			SPT-18	34.00-34.45
								DS-18	35.00
		22	23	32	55			SPT-19	35.50-35.95
								DS-19	36.50
37.00m Hard, deep brown, silty clay. Obs. reddish spot, yellow patches.		25	28	30	58			SPT-20	37.00-37.45
								DS-20	38.00
38.50m Hard, brownish grey, silty clay with traces of sand mixture. Obs. yellow patches.		24	27	29	56			SPT-21	38.50-38.95
								DS-21	39.50
40.45m		27	29	35	64			SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.30

Co-ordinates E =(-)2622.000
N=4182.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.074 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consists of light grey, fly ash.		0	0	0	0	0	0	DS-1 WS-1 SPT-1	0.50 0.65 1.00-1.45
2.50m Very loose, deep grey, silty sand / sandy silt.		0	0	0	0	0	0	*UDS-1 SPT-2	2.00-2.45 3.00-3.45
7.00m Very loose, brownish grey, silty sand / sandy silt. Obs. steel grey patches.		0	0	1	1	1	1	*UDS-2 SPT-3	4.00-4.45 5.00-5.45
9.45m		0	1	2	3	3	3	*UDS-3 SPT-4	6.00-6.45 7.00-7.45
		0	3	5	8	8	8	UDS-4 SPT-5	8.00-8.45 9.00-9.45
		5	6	8	14	14	14	UDS-5 DS-2 SPT-6	10.00-10.45 11.00 11.50-11.95
		9	11	16	27	27	27	DS-3 *UDS-6 DS-4 SPT-7	12.50 13.00-13.45 14.00 14.50-14.95
		12	12	17	29	29	29	DS-5 UDS-7 DS-6 SPT-8	15.50 16.00-16.45 17.00 17.50-17.95
		18	20	27	47	47	47	DS-7 UDS-8 DS-8 SPT-9	18.50 19.00-19.45 20.00 20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.30

Co-ordinates E = (-)2622.000
N = 4182.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.074 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
20.75m Dense to very dense, light yellowish grey, silty sand.								DS-9	21.50
		20	22	35				SPT-10	22.00-22.45
							57		
23.50m Very dense, yellowish grey, silty fine sand.								DS-10	23.00
		22	21	37				SPT-11	23.50-23.95
							58		
		15	26	36				DS-11	24.50
							62	SPT-12	25.00-25.45
								DS-12	26.00
26.50m								SPT-13	26.50-26.95
		20	25	37				DS-13	27.50
							62		
		20	21	35				SPT-14	28.00-28.45
							56		
		22	35	32				DS-14	29.00
							67	SPT-15	29.50-29.95
								DS-15	30.50
		19	30	39				SPT-16	31.00-31.45
							69		
32.50m								DS-16	32.00
		23	29	31				SPT-17	32.50-32.95
							60		
		25	28	37				DS-17	33.50
							65	SPT-18	34.00-34.45
								DS-18	35.00
35.50m								SPT-19	35.50-35.95
		18	33	39				DS-19	36.50
							72		
		19	33	43				SPT-20	37.00-37.45
							76		
38.50m								DS-20	38.00
		24	36	47				SPT-21	38.50-38.95
							83		
		25	39	48				DS-21	39.50
							87	SPT-22	40.00-40.45
40.45m N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.31

Co-ordinates E=(-)3244.000
N=3980.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.264 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	1	1				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	1	0				SPT-2	3.00-3.45
Very loose, light brownish grey to deep grey, sandy silt / silty sand with traces of clay binder.								*UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
9.45m		0	1	2				SPT-4	7.00-7.45
Medium dense, deep grey, clayey silty sand.								UDS-4	8.00-8.45
		1	2	2				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
13.00m		1	5	8				DS-2	11.00
Dense, light greenish grey, silty sand.								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
20.50m		7	13	17				DS-4	14.00
Very dense, brownish grey, silty sand. Obs. traces of clay.								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
21.00m		9	13	19				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
		13	22	28				SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.31

Co-ordinates E=(-)3244.000
N=3980.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.264 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Very dense, brownish grey, silty sand. Obs. traces of clay.		19	22	31	53		DS-9	21.50
							SPT-10	22.00-22.45
		21	24	33	57		DS-10	23.00
							SPT-11	23.50-23.95
							DS-11	24.50
25.00m Hard, light brownish grey, silty clay. Obs. steel grey patches.		17	22	31	53		SPT-12	25.00-25.45
							DS-12	26.00
		19	21	30	51		SPT-13	26.50-26.95
							DS-13	27.50
		17	23	29	52		SPT-14	28.00-28.45
							DS-14	29.00
		19	24	31	55		SPT-15	29.50-29.95
							DS-15	30.50
31.00m Hard, brownish grey, silty clay. Obs. steel grey patches & sand mixture.		18	29	35	64		SPT-16	31.00-31.45
							DS-16	32.00
		19	29	38	67		SPT-17	32.50-32.95
							DS-17	33.50
34.00m Very dense, steel grey, silty sand with traces of clay. Obs. light brownish patches.		21	32	42	74		SPT-18	34.00-34.45
							DS-18	35.00
		21	34	43	77		SPT-19	35.50-35.95
							DS-19	36.50
		25	40	48	88		SPT-20	37.00-37.45
							DS-20	38.00
		26	36	53	89		SPT-21	38.50-38.95
							DS-21	39.50
40.45m N.B. - '*' means sample could not be recovered.		19	29	45	74		SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.32

Co-ordinates E=(-)2864.000
N=4300.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.892 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm.							Ref. No	Depth (m)
0.00m										
Filled up soil consists of light grey, fly ash.									DS-1	0.50
		0	0	0					SPT-1	1.00-1.45
									*UDS-1	2.00-2.45
3.45m										
		0	0	0					SPT-2	3.00-3.45
									*UDS-2	4.00-4.45
Very loose, deep grey, silty sand / sandy silt.										
		0	1	0					SPT-3	5.00-5.45
									*UDS-3	6.00-6.45
9.50m										
		0	1	1					SPT-4	7.00-7.45
									*UDS-4	8.00-8.45
Medium dense, light greenish grey, silty sand.										
		0	3	4					SPT-5	9.00-9.45
									UDS-5	10.00-10.45
14.50m										
		4	7	8					DS-2	11.00
									SPT-6	11.50-11.95
Medium dense, light greenish grey, silty fine sand.									DS-3	12.50
									*UDS-6	13.00-13.45
									DS-4	14.00
16.00m										
		7	10	14					SPT-7	14.50-14.95
									DS-5	15.50
Brownish grey, silty sand. Obs. steel grey patches.									UDS-7	16.00-16.45
									DS-6	17.00
									SPT-8	17.50-17.95
17.50m										
		9	13	16					DS-7	18.50
									UDS-8	19.00-19.45
Medium dense, greenish grey, silty fine sand.										
									DS-8	20.00
									SPT-9	20.50-20.95
20.00m										
		18	22	31						
20.75m										

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.32

Co-ordinates E=(-)2864.000
N=4300.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.892 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Very dense, greenish grey, silty fine sand.									
								DS-9	21.50
		22	30	36			66	SPT-10	22.00-22.45
							81	DS-10	23.00
		21	36	45				SPT-11	23.50-23.95
							84	DS-11	24.50
Very dense, whitish grey, silty sand / sandy silt.		25	37	47				SPT-12	25.00-25.45
							72	DS-12	26.00
		23	32	40				SPT-13	26.50-26.95
							76	DS-13	27.50
		22	28	48				SPT-14	28.00-28.45
							84	DS-14	29.00
Hard, brownish grey, silty clay with kankars mixture.		20	34	50				SPT-15	29.50-29.95
							79	DS-15	30.50
		30	37	42				SPT-16	31.00-31.45
							94	DS-16	32.00
		37	41	53				SPT-17	32.50-32.95
							85	DS-17	33.50
		31	38	47				SPT-18	34.00-34.45
							85	DS-18	35.00
		25	39	46				SPT-19	35.50-35.95
							78	DS-19	36.50
		27	31	47				SPT-20	37.00-37.45
							82	DS-20	38.00
		22	37	45				SPT-21	38.50-38.95
							76	DS-21	39.50
		21	33	43				SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 28/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.33

Co-ordinates E=(-)2917.000
N=4176.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 18/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.746 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
2.50m							UDS-1	2.00-2.45
		0	0	1			SPT-2	3.00-3.45
							UDS-2	4.00-4.45
Very loose to loose, light brownish grey to deep grey, clayey silty sand.		1	1	1			SPT-3	5.00-5.45
							UDS-3	6.00-6.45
		2	4	4			SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m		4	5	8			SPT-5	9.00-9.45
Medium dense, light grey, clayey silty sand. Obs. brownish patches.							UDS-5	10.00-10.45
		6	9	10			DS-2	11.00
							SPT-6	11.50-11.95
12.50m							DS-3	12.50
							UDS-6	13.00-13.45
Dense, light greenish grey, clayey silty sand.		12	13	22			DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.50m		13	19	23			DS-6	17.00
Dense, light yellowish grey, clayey silty sand.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.50m		21	32	36			DS-8	20.00
Very dense, light yellowish grey, silty coarse sand.							SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 28/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.33

Co-ordinates E=(-)2917.000
N=4176.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 18/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.746 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m								DS-9	21.50
		24	32	39				SPT-10	22.00-22.45
						71		DS-10	23.00
		26	30	42				SPT-11	23.50-23.95
						72		DS-11	24.50
		29	39	46				SPT-12	25.00-25.45
						85		DS-12	26.00
26.50m		13	28	35				SPT-13	26.50-26.95
						63		DS-13	27.50
		12	26	32				SPT-14	28.00-28.45
						58		DS-14	29.00
		21	27	34				SPT-15	29.50-29.95
						61		DS-15	30.50
30.50m		25	31	37				SPT-16	31.00-31.45
						68		DS-16	32.00
		26	34	41				SPT-17	32.50-32.95
						75		DS-17	33.50
		28	38	48				SPT-18	34.00-34.45
						86		DS-18	35.00
		32	42	51				SPT-19	35.50-35.95
						93		DS-19	36.50
		27	39	49				SPT-20	37.00-37.45
						88		DS-20	38.00
		25	41	56				SPT-21	38.50-38.95
						97		DS-21	39.50
40.45m		35	53	50				SPT-22	40.00-40.40
						>100			
						10.0 cm Penh.			

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 13/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.34

Co-ordinates E=(-)3065.000
N=4073.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/02/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.222 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	1			DS-1 WS-1 SPT-1	0.50 0.55 1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	0			SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
Very soft, deep grey, sandy silty clay.		0	0	1			SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
		0	2	2			SPT-4	7.00-7.45
							UDS-4	8.00-8.45
8.45m		2	5	8			SPT-5	9.00-9.45
Medium dense, deep grey to light grey, clayey silty sand.							UDS-5	10.00-10.45
		5	7	12			DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
13.00m							UDS-6	13.00-13.45
Medium dense to dense, light greenish grey, silty fine sand.		7	11	15			DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.00m		7	13	18			DS-6	17.00
Dense, light yellowish grey, silty sand. Obs. traces of clay.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
		9	16	21			DS-8	20.00
21.00m							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 13/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.34

Co-ordinates E=(-)3065.000
N=4073.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/02/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.222 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense, light yellowish grey, silty sand. Obs. traces of clay.						47	DS-9	21.50
22.00m		11	20	27			SPT-10	22.00-22.45
Dense to very dense, steel grey, sandy silt with traces of clay lamination. Obs. brownish spot.						52	DS-10	23.00
		12	23	29			SPT-11	23.50-23.95
25.00m						46	DS-11	24.50
		14	20	26			SPT-12	25.00-25.45
Hard, brownish grey, silty clay.						43	DS-12	26.00
		12	19	24			SPT-13	26.50-26.95
28.00m						62	DS-13	27.50
		17	26	36			SPT-14	28.00-28.45
Very dense, steel grey, silty sand with clay binder. Obs. brown patches.						64	DS-14	29.00
		15	25	39			SPT-15	29.50-29.95
31.00m						73	DS-15	30.50
		18	29	44			SPT-16	31.00-31.45
Very dense, brownish grey, silty sand.						79	DS-16	32.00
		19	31	48			SPT-17	32.50-32.95
						89	DS-17	33.50
		23	34	55			SPT-18	34.00-34.45
						95	DS-18	35.00
		21	35	60			SPT-19	35.50-35.95
37.00m						>100	DS-19	36.50
		24	42	61			SPT-20	37.00-37.45
Very dense, brownish grey, silty sand with traces of clay lamination.						>100	DS-20	38.00
		21	53	48			SPT-21	38.50-38.88
					8.0 cm Pentn.		DS-21	39.50
40.35m						>100	SPT-22	40.00-40.35
		25	72	50				
					5.0 cm Pentn.			

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 09/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.35

Co-ordinates E=(-)3161.000
N=4091.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.037 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	1				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
Very loose, brownish grey to deep grey, sandy silt / silty sand.								*UDS-2	4.00-4.45
		0	1	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	1	1				SPT-4	7.00-7.45
9.00m		2	2	3				*UDS-4	8.00-8.45
Loose, light brownish grey, clayey sand.								SPT-5	9.00-9.45
								UDS-5	10.00-10.45
								DS-2	11.00
		3	4	6				SPT-6	11.50-11.95
11.50m								DS-3	12.50
Stiff to vey stiff, light grey to greenish grey, silty clay / clayey silt with sand mixture.								UDS-6	13.00-13.45
		5	8	11				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
17.50m		6	9	15				UDS-7	16.00-16.45
Very stiff, light grey, silty clay / clayey silt with sand mixture.								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00
Dense, yellowish grey, silty sand. Obs. traces of kankars & clay lamination.		15	22	28				SPT-9	20.50-20.95
								DS-9	21.50
21.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 09/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.35

Co-ordinates E=(-)3161.000
N=4091.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.037 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Dense, yellowish grey, silty sand. Obs. traces of kankars & clay lamination.		16	21	26	47	SPT-10	22.00-22.45
					36	DS-10	23.00
23.50m Hard, brownish grey, silty clay. Obs. steel grey patches.		12	19	17		SPT-11	23.50-23.95
					42	DS-11	24.50
		10	17	25		SPT-12	25.00-25.45
					40	DS-12	26.00
		9	17	23		SPT-13	26.50-26.95
					60	DS-13	27.50
27.50m Very dense, brownish grey, clayey silty sand. Obs. steel grey patches.		15	26	34		SPT-14	28.00-28.45
					55	DS-14	29.00
		13	24	31		SPT-15	29.50-29.95
					57	DS-15	30.50
31.00m Very dense, steel grey, clayey silty sand. Obs. brownish patches.		14	24	33		SPT-16	31.00-31.45
					58	DS-16	32.00
		15	26	32		SPT-17	32.50-32.95
					63	DS-17	33.50
34.00m Very dense, brownish grey, silty coarse sand.		17	28	35		SPT-18	34.00-34.45
					80	DS-18	35.00
		19	31	49		SPT-19	35.50-35.95
					99	DS-19	36.50
		24	41	58		SPT-20	37.00-37.45
					>100	DS-20	38.00
		34	50	50		SPT-21	38.50-38.88
				8.0 cm Pentn.		DS-21	39.50
				>100		SPT-22	40.00-40.38
		28	50	50			
				8.0 cm Pentn.			
40.38m							

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.36

Co-ordinates E=(-)3174.000
N=4045.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 23/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.164 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	1				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	1	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	1	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		1	2	2				SPT-4	7.00-7.45
9.45m								UDS-4	8.00-8.45
		2	2	3				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
13.00m								DS-2	11.00
		3	5	8				SPT-6	11.50-11.95
								DS-3	12.50
17.50m								UDS-6	13.00-13.45
		4	7	13				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
21.00m								UDS-7	16.00-16.45
		8	13	19				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
		14	17	21				DS-8	20.00
								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.36

Co-ordinates E=(-)3174.000
N=4045.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 23/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.164 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Hard, light yellowish grey, silty clay / clayey silt with sand mixture.						50	DS-9	21.50
22.00m		12	17	33			SPT-10	22.00-22.45
Hard, light grey, silty clay. Obs. brownish spot.						61	DS-10	23.00
		9	22	39			SPT-11	23.50-23.95
25.00m						49	DS-11	24.50
Hard, light brownish grey, silty clay.		14	21	28			SPT-12	25.00-25.45
						49	DS-12	26.00
		16	23	26			SPT-13	26.50-26.95
28.00m						50	DS-13	27.50
Hard, light brownish grey, silty clay with traces of sand mixture. Obs. steel grey patches.		17	23	27			SPT-14	28.00-28.45
						53	DS-14	29.00
		16	25	28			SPT-15	29.50-29.95
31.00m						65	DS-15	30.50
Hard, light brownish grey, silty clay / clayey with sand. Obs. steel grey patches.		17	27	38			SPT-16	31.00-31.45
						72	DS-16	32.00
		19	27	45			SPT-17	32.50-32.95
34.00m						83	DS-17	33.50
Very dense, brownish grey, silty sand.		20	35	48			SPT-18	34.00-34.45
						88	DS-18	35.00
		22	37	51			SPT-19	35.50-35.95
37.00m						75	DS-19	36.50
Very dense, brownish grey, silty sand. Obs. traces of clay.		19	31	44			SPT-20	37.00-37.45
						80	DS-20	38.00
		21	33	47			SPT-21	38.50-38.95
40.38m						>100	DS-21	39.50
		29	52	50			SPT-22	40.00-40.38
						8.0 cm Pentn.		

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.37

Co-ordinates E=(-)2990.000
N=4069.000

Field Test	Nos	Samples	Nos	Commencement Date : 27/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.803 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	1	0			SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	1	1			SPT-3	5.00-5.45
							UDS-3	6.00-6.45
		2	2	3			SPT-4	7.00-7.45
							UDS-4	8.00-8.45
8.00m		2	4	6			SPT-5	9.00-9.45
							*UDS-5	10.00-10.45
		3	5	7			DS-2	11.00
11.00m							SPT-6	11.50-11.95
							DS-3	12.50
		5	10	14			UDS-6	13.00-13.45
							DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
15.50m							UDS-7	16.00-16.45
		11	12	19			DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
		18	30	39			DS-8	20.00
20.00m							SPT-9	20.50-20.95
							DS-9	21.50
21.50m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 22/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.37

Co-ordinates E=(-)2990.000
N=4069.000

Field Test	Nos	Samples	Nos	Commencement Date : 27/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.803 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Very dense, yellowish grey, silty sand with traces of clay. Obs. traces of kankars.		17	26	32	58	SPT-10	22.00-22.45
					60	DS-10	23.00
		17	25	35		SPT-11	23.50-23.95
					56	DS-11	24.50
		21	23	33		SPT-12	25.00-25.45
					50	DS-12	26.00
26.95m		19	21	29		SPT-13	26.50-26.95
					57	DS-13	27.50
Hard, light brownish grey, silty clay with sand mixture. Obs. steel grey patches.		15	25	32		SPT-14	28.00-28.45
					64	DS-14	29.00
		17	29	35		SPT-15	29.50-29.95
					64	DS-15	30.50
31.00m		20	27	37		SPT-16	31.00-31.45
					73	DS-16	32.00
		19	31	42		SPT-17	32.50-32.95
					99	DS-17	33.50
Very dense, steel grey, silty sand. Obs. brownish patches.		23	42	57		SPT-18	34.00-34.45
					>100	DS-18	35.00
		28	53	50		SPT-19	35.50-35.88
				8.0 cm Pentn.		DS-19	36.50
					>100		
		21	49	54		SPT-20	37.00-37.45
					56	DS-20	38.00
38.00m		18	25	31		SPT-21	38.50-38.95
Hard, steel grey, silty clay with traces of sand. Obs. brownish patches.					52	DS-21	39.50
		17	23	29		SPT-22	40.00-40.45
40.45m							
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.38

Co-ordinates E=(-)2990.000
N=4036.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.592 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.4 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	1	1				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	1	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Very loose, light brownish grey to clayey silty sand.		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	1	2				SPT-4	7.00-7.45
8.00m								UDS-4	8.00-8.45
Loose, steel grey, clayey silty sand.		1	2	3				SPT-5	9.00-9.45
10.00m								UDS-5	10.00-10.45
								DS-2	11.00
		2	6	8				SPT-6	11.50-11.95
Medium dense, light greenish grey, silty sand.								DS-3	12.50
								UDS-6	13.00-13.45
		7	9	12				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
16.00m								UDS-7	16.00-16.45
								DS-6	17.00
Hard, steel grey, silty clay with sand mixture. Obs. rusty spots.		11	15	18				SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m								DS-8	20.00
Dense to very dense, steel grey, silty sand with traces of clay. Obs. gravels & kankars.		13	18	22				SPT-9	20.50-20.95
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.38

Co-ordinates E=(-)2990.000
N=4036.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.592 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.4 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense to very dense, steel grey, silty sand with traces of clay. Obs. gravels & kankars.		17	25	33	58		DS-9	21.50
							SPT-10	22.00-22.45
					>100		DS-10	23.00
		18	41	62			SPT-11	23.50-23.95
					77		DS-11	24.50
25.00m Very dense, light brownish / yellowish grey, silty sand with traces of clay binder.		17	35	42			SPT-12	25.00-25.45
					71		DS-12	26.00
		19	32	39			SPT-13	26.50-26.95
					80		DS-13	27.50
28.00m Hard, steel grey, silty clay.		20	35	45			SPT-14	28.00-28.45
					85		DS-14	29.00
		22	37	48			SPT-15	29.50-29.95
							DS-15	30.50
31.00m Very dense, steel grey, silty sand.		19	33	44			SPT-16	31.50-31.95
					80		DS-16	32.00
		17	35	45			SPT-17	32.50-32.95
					87		DS-17	33.50
		19	38	49			SPT-18	34.00-34.45
					90		DS-18	35.00
		21	39	51			SPT-19	35.50-35.95
					50		DS-19	36.50
37.00m Hard, steel grey, silty clay with traces of sand. Obs. brownish patches & brownish sand.		18	22	28			SPT-20	37.00-37.45
					51		DS-20	38.00
		16	24	27			SPT-21	38.50-38.95
					>100		DS-21	39.50
40.35m		40	70	50			SPT-22	40.00-40.35
					5.0 cm Pentn.			

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.39

Co-ordinates E=(-)2915.000
N=4067.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.941 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.4 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.						1	DS-1	0.50
		0	0	1			SPT-1	1.00-1.45
						0	*UDS-1	2.00-2.45
		0	0	0			SPT-2	3.00-3.45
5.00m						0	UDS-2	4.00-4.45
						0	SPT-3	5.00-5.45
						1	UDS-3	6.00-6.45
		0	0	1			SPT-4	7.00-7.45
7.00m						2	UDS-4	8.00-8.45
		0	1	1			SPT-5	9.00-9.45
						15	*UDS-5	10.00-10.45
		4	6	9			DS-2	11.00
11.50m						20	SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
		4	8	12			DS-4	14.00
18.50m						25	SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
		6	9	16			DS-6	17.00
21.00m						50	SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.45
		15	23	27			DS-8	20.00
							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.39

Co-ordinates E=(-)2915.000
N=4067.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.941 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.4 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Dense, light greenish grey, silty sand with traces of clay lamination. 21.00m							DS-9	21.50
22.00m		16	24	30		54	SPT-10	22.00-22.45
Very dense, brownish grey, silty coarse sand with traces of clay lamination. Obs. green spot.						50	DS-10	23.00
25.00m		16	21	29		67	SPT-11	23.50-23.95
Very dense, light grey, silty coarse sand.						71	DS-11	24.50
28.00m		19	30	37		76	SPT-12	25.00-25.45
Very dense, light grey, silty coarse sand.						84	DS-12	26.00
31.00m		17	29	42		79	SPT-13	26.50-26.95
Very dense, light grey, silty sand with traces of clay lamination. Obs. brownish spot.						80	DS-13	27.50
34.00m		16	30	46		88	SPT-14	28.00-28.45
Very dense, brownish grey, silty sand with traces of rock dust & mica.						71	DS-14	29.00
37.00m		15	33	51		71	SPT-15	29.50-29.95
Very dense, light brownish grey, silty coarse sand with clay.						71	DS-15	30.50
40.37m		16	31	48		71	SPT-16	31.00-31.45
Hard, brownish grey, silty clay. Obs. light grey silty sand in SPT-22.						80	DS-16	32.00
		18	28	52		80	SPT-17	32.50-32.95
						88	DS-17	33.50
		17	35	53		88	SPT-18	34.00-34.45
						>100	DS-18	35.00
		18	65	40	5.0 cm Pentn.	71	SPT-19	35.50-35.85
						80	DS-19	36.50
		15	28	43		80	SPT-20	37.00-37.45
						>100	DS-20	38.00
		12	33	47		80	SPT-21	38.50-38.95
						>100	DS-21	39.50
		21	60	51	7.0 cm Pentn.	80	SPT-22	40.00-40.37

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.40

Co-ordinates E=(-)2632.000
N=4116.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.988 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m									
Very loose, deep grey, clayey silty sand.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
6.00m								UDS-3	6.00-6.45
Very loose, deep grey, silty clayey silt with sand mixture.		0	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		3	3	5				SPT-5	9.00-9.45
Medium, brownish grey, silty clay with sand mixture.								UDS-5	10.00-10.45
11.00m		3	6	10				DS-2	11.00
Medium dense, greenish grey, silty sand with clay lamination.								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.50m		4	6	11				DS-4	14.00
Medium dense, yellowish grey, silty sand with clay lamination.								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
		4	9	12				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.40

Co-ordinates E=(-)2632.000
N=4116.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.988 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Hard, brownish grey, silty clay with sand mixture.		11	20	27	47	SPT-9	20.50-20.95
21.50m		11	22	28	50	DS-9	21.50
Very dense, light brownish grey, silty medium sand. Obs. clay lamination.		19	34	40	74	SPT-10	22.00-22.45
25.00m		17	30	35	65	DS-10	23.00
Hard, light brownish grey, clayey silty clay with traces of sand.		15	28	33	61	SPT-11	23.50-23.95
29.50m		16	27	34	61	DS-11	24.50
Hard, brownish grey, silty clay with sand mixture.		17	27	36	63	SPT-12	25.00-25.45
34.00m		19	25	34	59	DS-12	26.00
Very dense, brownish grey, silty sand. Obs. clay lamination.		16	22	36	58	SPT-13	26.50-26.95
37.00m		19	32	39	71	DS-13	27.50
Very dense, brownish grey, silty sand.		21	36	42	78	SPT-14	28.00-28.45
38.50m		27	41	50	>100	DS-14	29.00
Hard, brownish grey, silty clay.		17	26	32	58	SPT-15	29.50-29.95
40.38m		21	55	50	>100	DS-15	30.50
N.B. - '*' means sample could not be recovered.					8.0 cm Pentn.	SPT-16	31.00-31.45
						DS-16	32.00
						SPT-17	32.50-32.95
						DS-17	33.50
						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.37
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
						SPT-22	40.00-40.38

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.41

Co-ordinates E=(-)2628.000
N=4062.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.918 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m								SPT-2	3.00-3.45
Very loose, grey to deep grey, clayey sand.								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	0	1				SPT-4	7.00-7.45
8.00m								UDS-4	8.00-8.45
Very stiff, brownish grey, clayey with sand / clayey sand.		3	6	10				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.50m		3	4	7				DS-2	11.00
Medium dense, greenish grey, silty sand. Obs. clay lamination.								SPT-6	11.50-11.95
13.00m								DS-3	12.50
								UDS-6	13.00-13.45
Medium dense, greenish grey, silty medium to fine sand.		8	10	12				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
17.50m		15	21	28				DS-6	17.00
Dense, light grey, sandy silt. Obs. traces of clay lamination.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. CETEST										
Job No : 3388		Created by : Chandrani			Created on : 12/12/2014			Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO.41			Co-ordinates E=(-)2628.000 N=4062.000			
Field Test	Nos	Samples		Nos	Commencement Date : 05/12/14					
Penetrometer (SPT)	22	Undisturbed (UDS)		8	Completion Date : 06/12/14					
Cone (Pc)		Penetrometer (SPT)		22	Bore Hole Diameter : 150 mm.					
Vane (V)		Disturbed (DS)		21	Level Of Ground : 8.918 m.					
		Water Sample (WS)		0	Water Struck At :					
					Standing Water Level : 0.50 m.					
DESCRIPTION				SYMBOL	N-VALUE				SAMPLES	
					EACH DIVN. = 15cm.				Ref. No	Depth (m)
Very dense, brownish grey, silty medium to coarse sand.					18	30	39	69	SPT-9	20.50-20.95
								65	DS-9	21.50
					16	29	36		SPT-10	22.00-22.45
								64	DS-10	23.00
					18	30	34		SPT-11	23.50-23.95
								71	DS-11	24.50
					17	29	42		SPT-12	25.00-25.45
								79	DS-12	26.00
Hard, brownish grey, silty clay. Obs. sand mixture.					17	32	47		SPT-13	26.50-26.95
Hard, brownish grey, silty clay. Obs. reddish spot.								71	DS-13	27.50
					18	30	41		SPT-14	28.00-28.45
								65	DS-14	29.00
					17	29	36		SPT-15	29.50-29.95
								59	DS-15	30.50
					15	26	33		SPT-16	31.00-31.45
Very dense, brownish grey, clayey sand.								57	DS-16	32.00
					13	25	32		SPT-17	32.50-32.95
								86	DS-17	33.50
					23	40	46		SPT-18	34.00-34.45
								96	DS-18	35.00
					26	45	51		SPT-19	35.50-35.95
								>100	DS-19	36.50
					27	47	54		SPT-20	37.00-37.45
								82	DS-20	38.00
					23	32	50		SPT-21	38.50-38.95
Hard, brownish grey, silty clay.								74	DS-21	39.50
N.B. - '*' means sample could not be recovered.					21	28	46		SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 09/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.42

Co-ordinates E=(-)2804.000
N=3952.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.004 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m									
Very loose, brownish grey to deep grey, clayey silty sand.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.45m									
Stiff, brownish grey, silty clay with sand mixture.		0	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
								SPT-5	9.00-9.45
								*UDS-5	10.00-10.45
11.50m									
Very stiff, light greenish grey, silty clay with fine sand mixture.		2	4	5				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
13.00m								UDS-6	13.00-13.45
Medium dense, light brownish grey, silty fine sand with clay lamination.		6	9	13				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
17.00m									
Hard, light brownish grey, silty clay with sand mixture.		11	17	23				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m									
Very dense, brownish grey, silty coarse sand. Obs. clay binder.		18	27	34				DS-8	20.00
								SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 09/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.42

Co-ordinates E=(-)2804.000
N=3952.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.004 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0	0		DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m								
Very loose, brownish grey to deep grey, clayey silty sand.		0	0	0	0		SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	1	0	0		SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
7.45m		0	0	1	1		SPT-4	7.00-7.45
Stiff, brownish grey, silty clay with sand mixture.		2	4	5	9		UDS-4	8.00-8.45
							SPT-5	9.00-9.45
							*UDS-5	10.00-10.45
11.50m		5	8	9	17		DS-2	11.00
Very stiff, light greenish grey, silty clay with fine sand mixture.							SPT-6	11.50-11.95
							DS-3	12.50
13.00m							UDS-6	13.00-13.45
Medium dense, light brownish grey, silty fine sand with clay lamination.		6	9	13	22		DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.00m		11	17	23	40		DS-6	17.00
Hard, light brownish grey, silty clay with sand mixture.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.50m		18	27	34	61		DS-8	20.00
Very dense, brownish grey, silty coarse sand. Obs. clay binder.							SPT-9	20.50-20.95
21.50m							DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.43

Co-ordinates E=(-)2762.000
N=4090.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.576 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		1	1	1				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	1				SPT-2	3.00-3.45
Very loose, light grey to deep grey, silty sand.								*UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	0	0				SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
9.00m		1	2	3				SPT-5	9.00-9.45
Loose, brownish grey to greenish grey, silty sand. Obs. traces of clay lamination in SPT-05.								UDS-5	10.00-10.45
		2	3	5				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.50m		7	11	17				DS-4	14.00
Medium dense, greenish grey, silty sand.								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
17.95m		6	10	19				DS-6	17.00
Dense, yellowish grey, silty sand. Obs. traces of clay.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
21.00m		9	21	24				DS-8	20.00
								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

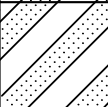
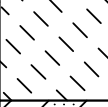
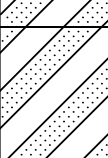
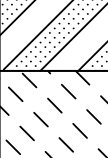
Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.43

Co-ordinates E=(-)2762.000
N=4090.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.576 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense, yellowish grey, silty sand. Obs. traces of clay.		11	22	27	49		DS-9	21.50
							SPT-10	22.00-22.45
		16	19	32	51		DS-10	23.00
							SPT-11	23.50-23.95
					67		DS-11	24.50
25.00m Very dense, light brownish grey, silty coarse sand. Obs. traces of kankars.		19	29	38			SPT-12	25.00-25.45
					>100		DS-12	26.00
26.50m Hard, brownish grey, silty clay.		28	44	59	87		SPT-13	26.50-26.95
		24	36	51			DS-13	27.50
					71		SPT-14	28.00-28.45
		22	33	38			DS-14	29.00
29.50m Hard, brownish grey, silty clay with traces of sand mixture. Obs. reddish spot.					70		SPT-15	29.50-29.95
		17	30	40			DS-15	30.50
31.00m Very dense, brownish grey, clayey sand.					67		SPT-16	31.00-31.45
		17	28	39			DS-16	32.00
					94		SPT-17	32.50-32.95
		28	39	55			DS-17	33.50
34.00m Very dense, brownish grey, silty sand. Obs. traces of clay lamination.					>100		SPT-18	34.00-34.45
		38	51	45			DS-18	35.00
					5.0 cm Pentn.		SPT-19	35.50-35.85
					94		DS-19	36.50
37.00m Hard, brownish grey, silty clay with traces of sand mixture.		32	43	51			SPT-20	37.00-37.45
		12	24	36	60		DS-20	38.00
					67		SPT-21	38.50-38.95
		12	21	46			DS-21	39.50
40.45m N.B. - '*' means sample could not be recovered.							SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.44

Co-ordinates E=(-)2943.000
N=3981.000

Field Test	Nos	Samples	Nos	Commencement Date : 03/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.802 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.50m		0	0	0				SPT-2	3.00-3.45
Very loose, deep grey, clayey silty sand.								*UDS-2	4.00-4.45
		0	1	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.00m		1	2	3				SPT-4	7.00-7.45
Loose, light greenish grey, silty sand. Obs. clay binder.								UDS-4	8.00-8.45
		2	2	3				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
		2	3	6				DS-2	11.00
								SPT-6	11.50-11.95
13.00m								DS-3	12.50
Medium dense, light greenish grey. silty sand.								UDS-6	13.00-13.45
		4	7	11				DS-4	14.00
								SPT-7	14.50-14.95
16.45m								DS-5	15.50
Very stiff, light greenish grey, silty clay / clayey silt with sand mixture.								UDS-7	16.00-16.45
		8	10	13				DS-6	17.00
								SPT-8	17.50-17.95
20.00m								DS-7	18.50
Dense, light greenish grey, silty fine sand.								UDS-8	19.00-19.45
		8	19	27				DS-8	20.00
21.50m								SPT-9	20.50-20.95
								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.44

Co-ordinates E=(-)2943.000
N=3981.000

Field Test	Nos	Samples	Nos	Commencement Date : 03/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.802 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Dense, light greenish grey, silty fine sand.		9	20	28	48	SPT-10	22.00-22.45
		10	20	29	49	DS-10	23.00
		15	30	45	75	SPT-11	23.50-23.95
24.50m Hard, light grey, silty clay / clayey silt with traces of sand. Obs. brownish patches.		16	33	41	74	DS-11	24.50
		17	30	37	67	SPT-12	25.00-25.45
		19	26	35	61	DS-12	26.00
		19	27	37	64	SPT-13	26.50-26.95
31.00m Very dense, light brownish grey, silty sand.		22	36	48	84	DS-13	27.50
32.50m Very dense, light brownish grey, silty sand.		21	37	50	87	SPT-14	28.00-28.45
34.00m Hard, steel grey, silty clay with traces of sand mixture. Obs. brownish patches.		17	21	51	72	DS-14	29.00
		19	30	45	75	SPT-15	29.50-29.95
37.00m Very dense, light brownish grey, silty sand.		19	31	49	80	DS-15	30.50
		21	34	57	91	SPT-16	31.00-31.45
39.50m Very dense, yellowish grey to brownish grey, silty sand with traces of kankars.						DS-16	32.00
40.45m						SPT-17	32.50-32.95
						DS-17	33.50
						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
						SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 13/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.45

Co-ordinates E=(-)3000.000
N=3966.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.91 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists off light grey, fly ash.							DS-1	0.50
		0	0	1		1	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m						0		
Very soft, light grey to deep grey, sandy silty clay.		0	0	0		0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	0	0		0	SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
		1	2	3		5	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
8.00m						14		
Stiff, deep grey to light grey, silty clay with sand mixture / clayey sand.		4	5	9			SPT-5	9.00-9.45
							UDS-5	10.00-10.45
		3	5	8		13	DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
14.50m		7	9	11		20	DS-4	14.00
Medium dense, light greenish grey, silty sand.							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
		8	12	17		29	DS-6	17.00
19.00m							SPT-8	17.50-17.95
Hard, yellowish grey, sandy silty clay.							DS-7	18.50
							UDS-8	19.00-19.45
		17	21	25		46	DS-8	20.00
21.00m							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 13/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.45

Co-ordinates E=(-)3000.000
N=3966.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.91 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Hard, yellowish grey, sandy silty clay.								DS-9	21.50
22.00m		17	22	26			48	SPT-10	22.00-22.45
Dense to very dense, brownish grey, silty sand. Obs. traces of clay.		15	21	32			53	DS-10	23.00
25.00m		16	23	29			52	SPT-11	23.50-23.95
Hard, brownish grey, silty clay.		15	25	30			55	DS-11	24.50
28.00m		17	26	35			61	SPT-12	25.00-25.45
Hard, steel grey, silty clay. Obs. traces of coarse sand.		19	23	36			59	DS-12	26.00
31.00m		21	28	41			69	SPT-13	26.50-26.95
Very dense, brownish grey, silty sand.		16	27	38			65	DS-13	27.50
37.00m		20	29	33			62	SPT-14	28.00-28.45
Very dense, brownish grey, silty sand with traces of clay.		21	37	49			86	DS-14	29.00
40.35m		25	38	50			>100	SPT-15	29.50-29.95
Very dense, brownish grey, silty sand with traces of clay.		19	41	47			88	DS-15	30.50
40.35m		49	65	50			>100	SPT-16	31.00-31.45
N.B. - '*' means sample could not be recovered.								DS-16	32.00
								SPT-17	32.50-32.95
								DS-17	33.50
								SPT-18	34.00-34.45
								DS-18	35.00
								SPT-19	35.50-35.95
								DS-19	36.00
								SPT-20	37.00-37.38
								DS-20	38.00
								SPT-21	38.50-38.95
								DS-21	39.50
								SPT-22	40.00-40.35

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.46

Co-ordinates E=(-)3020.000
N=3938.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.906 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
Very loose, deep grey, clayey silty sand.								*UDS-2	4.00-4.45
		0	1	0				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
		1	2	2				SPT-4	7.00-7.45
9.00m		2	3	3				*UDS-4	8.00-8.45
Medium, light grey, clayey silt / silty clay with sand mixture.								SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.00m		2	3	6				DS-2	11.00
Stiff, light grey, clayey silt / silty clay with sand mixture.								SPT-6	11.50-11.95
								DS-3	12.50
13.00m		4	7	11				UDS-6	13.00-13.45
Medium dense, light greenish grey, silty coarse sand.								DS-4	14.00
								SPT-7	14.50-14.95
16.00m		5	9	15				DS-5	15.50
Medium dense, light greenish grey, silty fine sand.								UDS-7	16.00-16.45
								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
20.00m		13	20	29				UDS-8	19.00-19.45
Dense, light greenish grey, silty fine sand.								DS-8	20.00
								SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.46

Co-ordinates E=(-)3020.000
N=3938.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.906 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Very dense, light brownish grey, silty coarse sand.		13	22	31	53	SPT-10	22.00-22.45
					54	DS-10	23.00
		15	21	33	56	SPT-11	23.50-23.95
					63	DS-11	24.50
25.00m Hard, light grey, silty clay / clayey silt with sand mixture.		16	21	35	46	SPT-12	25.00-25.45
					63	DS-12	26.00
		21	24	39	46	SPT-13	26.50-26.95
					49	DS-13	27.50
28.00m Hard, brownish grey, silty clay / clayey silt. Obs. coarse sand.		12	20	26	43	SPT-14	28.00-28.45
					44	DS-14	29.00
		17	23	26	44	SPT-15	29.50-29.95
					53	DS-15	30.50
31.00m Hard, yellowish grey, silty clay with high % of coarse sand mixture.		13	18	25	58	SPT-16	31.00-31.45
					80	DS-16	32.00
		12	17	27	53	SPT-17	32.50-32.95
					58	DS-17	33.50
		10	12	32	80	SPT-18	34.00-34.45
					>100	DS-18	35.00
35.50m Hard, light grey, silty clay / clayey silt. Obs. brown spot.		11	23	30	58	SPT-19	35.50-35.95
					80	DS-19	36.50
		12	26	32	80	SPT-20	37.00-37.45
					>100	DS-20	38.00
38.50m Very dense, brownish grey, silty coarse sand. Obs. moorum.		10	33	47	53	SPT-21	38.50-38.95
					>100	DS-21	39.50
40.45m		19	58	72	>100	SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.47

Co-ordinates E=(-)3000.000
N=3916.000

Field Test	Nos	Samples	Nos	Commencement Date : 10/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.88 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
2.50m		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
Very loose to loose, brownish grey to deep grey, clayey silty sand.								*UDS-3	6.00-6.45
		1	2	3				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
		2	2	3				SPT-5	9.00-9.45
10.00m								UDS-5	10.00-10.45
		4	6	6				DS-2	11.00
Medium dense, light greenish grey, silty sand.								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.50m		5	9	12				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
Medium dense, light greenish grey, clayey silty sand.								UDS-7	16.00-16.45
		7	11	15				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
Dense, light greenish grey, clayey silty sand.								DS-8	20.00
20.00m									
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.47

Co-ordinates E=(-)3000.000
N=3916.000

Field Test	Nos	Samples	Nos	Commencement Date : 10/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.88 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Dense, light greenish grey, clayey silty sand.		9	12	19	31	SPT-9	20.50-20.95
						DS-9	21.50
		15	23	30	53	SPT-10	22.00-22.45
						DS-10	23.00
Very dense, light brownish grey, silty coarse sand.		16	26	34	60	SPT-11	23.50-23.95
						DS-11	24.50
25.00m		20	24	29	53	SPT-12	25.00-25.45
						DS-12	26.00
		21	24	31	55	SPT-13	26.50-26.95
Very dense, steel grey, silty coarse sand.		25	27	33	60	SPT-14	28.00-28.45
						DS-14	29.00
		26	29	34	63	SPT-15	29.50-29.95
30.50m						DS-15	30.50
		14	25	29	54	SPT-16	31.00-31.45
Hard, light yellowish grey, silty clay with sand mixture.						DS-16	32.00
		13	23	26	49	SPT-17	32.50-32.95
33.50m						DS-17	33.50
		12	20	21	41	SPT-18	34.00-34.45
Hard, steel grey, silty clay with sand mixture.						DS-18	35.00
		13	18	22	40	SPT-19	35.50-35.95
37.00m						DS-19	36.50
		14	20	28	48	SPT-20	37.00-37.45
Hard, light brownish grey, silty clay / clayey silt.						DS-20	38.00
		15	21	29	50	SPT-21	38.50-38.95
39.50m						DS-21	39.50
Very dense, light brownish grey, silty sand.						SPT-22	40.00-40.45
40.45m N.B. - '*' means sample could not be recovered.		32	54	62	>100		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.48

Co-ordinates E=(-)2980.000
N=3898.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.60 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.50m								*UDS-1	2.00-2.45
Very loose, light brownish grey, silty clayey sand.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
5.00m		0	1	1				SPT-3	5.00-5.45
Very loose to loose, deep grey, silty clayey sand.								UDS-3	6.00-6.45
		1	3	3				SPT-4	7.00-7.45
8.00m								UDS-4	8.00-8.45
Medium dense, silty clayey sand. Obs. brown patches.		5	7	9				SPT-5	9.00-9.45
								*UDS-5	10.00-10.45
11.50m		11	16	20				DS-2	11.00
Hard, brownish grey, silty clay / clayey silt with rusty spots.								SPT-6	11.50-11.95
								DS-3	12.50
14.00m								UDS-6	13.00-13.45
Very dense, light greenish grey, silty clayey sand.		19	30	31				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
		18	24	29				SPT-8	17.50-17.95
								DS-7	18.50
19.00m								UDS-8	19.00-19.45
Very dense, brownish grey, silty sand with clay lamination.								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.48

Co-ordinates E=(-)2980.000
N=3898.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.60 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Very dense, brownish grey, silty sand with clay lamination.		22	32	40	72	SPT-9	20.50-20.95
22.00m					87	DS-9	21.50
Very dense, yellowish brown, silty fine to coarse sand.		24	39	48		SPT-10	22.00-22.45
					51	DS-10	23.00
25.00m		15	22	29		SPT-11	23.50-23.95
Very dense, brownish grey, silty sand with traces of clay binder.		19	29	32	61	DS-11	24.50
28.00m		27	36	41	77	SPT-12	25.00-25.45
Very dense, brownish yellow, silty coarse sand. Obs. steel grey patches.		20	29	35	64	DS-12	26.00
		24	31	41	72	SPT-13	26.50-26.95
		25	33	40	73	DS-13	27.50
		31	46	45	91	SPT-14	28.00-28.45
		23	40	43	83	DS-14	29.00
35.50m		18	35	40	75	SPT-15	29.50-29.95
Hard, deep yellowish grey, silty clay.		20	39	49	88	DS-15	30.50
38.50m		38	45	48	93	SPT-16	31.00-31.45
Very dense, greyish yellow, silty coarse sand.		41	49	46	95	DS-16	32.00
40.45m						SPT-17	32.50-32.95
N.B. - '*' means sample could not be recovered.						DS-17	33.50
						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
						SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.49

Co-ordinates E=(-)3294.000
N=3436.000

Field Test	Nos	Samples	Nos	Commencement Date : 20/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.269 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm.							Ref. No	Depth (m)
0.00m										
Filled up soil consists of light grey, fly ash.									DS-1	0.50
		0	0	0					SPT-1	1.00-1.45
									*UDS-1	2.00-2.45
3.00m										
Very loose, brownish grey, silty clayey sand to dark grey, silty clayey sand.		0	0	0					SPT-2	3.00-3.45
									UDS-2	4.00-4.45
		0	0	0					SPT-3	5.00-5.45
									UDS-3	6.00-6.45
		0	0	1					SPT-4	7.00-7.45
									UDS-4	8.00-8.45
9.00m										
Very loose, light grey, silty clayey sand.		1	1	1					SPT-5	9.00-9.45
									UDS-5	10.00-10.45
		1	1	2					DS-2	11.00
									SPT-6	11.50-11.95
									DS-3	12.50
									*UDS-6	13.00-13.45
13.00m										
Medium dense, light greenish grey, silty sand.		5	6	7					DS-4	14.00
									SPT-7	14.50-14.95
									DS-5	15.50
									*UDS-7	16.00-16.45
									DS-6	17.00
		11	11	12					SPT-8	17.50-17.95
									DS-7	18.50
									*UDS-8	19.00-19.45
20.50m									DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.49

Co-ordinates E=(-)3294.000
N=3436.000

Field Test	Nos	Samples	Nos	Commencement Date : 20/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.269 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Medium dense, light greenish grey, silty sand.		14	20	29	49	SPT-9	20.50-20.95
						DS-9	21.50
		15	24	30	54	SPT-10	22.00-22.45
						DS-10	23.00
		15	22	32	54	SPT-11	23.50-23.95
						DS-11	24.50
Dense to very dense, brownish grey, silty sand.		19	30	36	66	SPT-12	25.00-25.45
						DS-12	26.00
		25	25	40	75	SPT-13	26.50-26.95
						DS-13	27.50
		18	25	32	57	SPT-14	28.00-28.45
						DS-14	29.00
		17	26	31	57	SPT-15	29.50-29.95
						DS-15	30.50
Hard, brownish grey, silty sandy clay. Obs. yellow patches.		15	27	35	62	SPT-16	31.00-31.45
						DS-16	32.00
		18	28	37	65	SPT-17	32.50-32.95
						DS-17	33.50
		19	30	32	62	SPT-18	34.00-34.45
						DS-18	35.00
		22	29	39	68	SPT-19	35.50-35.95
						DS-19	36.50
Very dense, whitish grey, silty sand with traces of mica. Obs. yellow patches.		17	25	33	58	SPT-20	37.00-37.45
						DS-20	38.00
		30	39	48	87	SPT-21	38.50-38.95
						DS-21	39.50
Very dense, greyish deep yellow, silty sand.		33	42	49	91	SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 13/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.50

Co-ordinates E=(-)3074.000
N=3891.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.245 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								WS-1 DS-1	0.45 0.50
Filled up soil consists of light grey, fly ash.		0	0	0				SPT-1	1.00-1.45
2.50m								*UDS-1	2.00-2.45
Medium, brownish grey, silty clay / clayey silt with high % of sand mixture.		1	2	3				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
5.00m								SPT-3	5.00-5.45
Soft, deep grey, silty clay / clayey silt with high % of sand mixture.		0	1	2				*UDS-3	6.00-6.45
								SPT-4	7.00-7.45
7.00m		1	2	2				UDS-4	8.00-8.45
Soft to medium brownish grey, silty clay / clayey silt with high % of sand mixture.								SPT-5	9.00-9.45
		2	3	5				UDS-5	10.00-10.45
10.00m								DS-2	11.00
Light grey, clayey silt / silty clay with high % of sand mixture.								SPT-6	11.50-11.95
11.50m		0	2	3				DS-3	12.50
Medium, light greenish grey, silty clay / clayey silt with high % of sand mixture.								UDS-6	13.00-13.45
13.00m								DS-4	14.00
Medium dense, light greenish grey, silty sand. Obs. clay lamination.		7	6	6				SPT-7	14.50-14.95
								DS-5	15.50
16.00m								UDS-7	16.00-16.45
								DS-6	17.00
Hard, yellowish grey, silty clay / clayey silt with high % of sand mixture.		7	14	20				SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m								DS-8	20.00
Very dense, light brownish yellow, silty coarse sand.		17	24	27				SPT-9	20.50-20.95
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 13/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.50

Co-ordinates E=(-)3074.000
N=3891.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.245 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Very dense, light brownish yellow, silty coarse sand.		21	28	33	61			DS-9	21.50
								SPT-10	22.00-22.45
		18	24	33	57			DS-10	23.00
								SPT-11	23.50-23.95
		23	29	35	64			DS-11	24.50
								SPT-12	25.00-25.45
25.50m Hard, yellowish brown, silty clay / clayey sil. Obs. reddish spot, grey patches.		14	21	25	46			DS-12	26.00
								SPT-13	26.50-26.95
		16	23	28	51			DS-13	27.50
								SPT-14	28.00-28.45
28.45m Hard, light grey, silty clay / clayey silt with sand mixture, kankars. Obs. reddish spot.		17	33	34	67			DS-14	29.00
								SPT-15	29.50-29.95
		24	31	38	69			DS-15	30.50
								SPT-16	31.00-31.45
31.00m Very dense, steel grey, sandy silt / silty sand with reddish spot.		25	32	45	77			DS-16	32.00
								SPT-17	32.50-32.95
32.50m Very dense, light yellowish grey, silty coarse sand.		23	29	42	71			DS-17	33.50
								SPT-18	34.00-34.45
								DS-18	35.00
35.50m Very dense, brownish grey, silty coarse sand.		27	34	43	77			SPT-19	35.50-35.95
								DS-19	36.50
37.00m Very dense, steel grey, silty sand / sandy silt. Obs. yellowish spot.		30	42	47	89			SPT-20	37.00-37.45
								DS-20	38.00
38.50m Hard, brownish grey, silty clay. Obs. yellowish grey silty sand.		31	40	48	88			SPT-21	38.50-38.95
								DS-21	39.50
40.45m N.B. - '*' means sample could not be recovered.		29	53	57	>100			SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.51

Co-ordinates E=(-)3039.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.049 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0	0		DS-1	0.50
							SPT-1	1.00-1.45
2.50m							*UDS-1	2.00-2.45
Very loose, brownish grey, clayey silty sand.		0	0	0	0		SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
5.00m							SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
Very loose to loose, deep grey, clayey silty sand.		1	2	3	5		SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m							SPT-5	9.00-9.45
							*UDS-5	10.00-10.45
Loose, greenish grey, silty sand.		3	4	7	11		DS-2	11.00
							SPT-6	11.50-11.95
11.50m							DS-3	12.50
							UDS-6	13.00-13.45
							DS-4	14.00
							SPT-7	14.50-14.95
Medium dense, light greenish grey / steel grey, silty fine sand.		4	8	12	20		DS-5	15.50
							UDS-7	16.00-16.45
							DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m							DS-8	20.00
Very dense, light brownish grey, silty sand. Obs. deep brown spot.		18	25	35	60		SPT-9	20.50-20.95
21.50m							DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.51

Co-ordinates E=(-)3039.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.049 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Very dense, light brownish grey, silty sand. Obs. deep brown spot.		20	26	38	64	SPT-10	22.00-22.45
					67	DS-10	23.00
		21	27	40		SPT-11	23.50-23.95
24.50m Hard, light brownish grey, silty clay / clayey silt with red spot.		13	21	33	54	DS-11	24.50
					55	SPT-12	25.00-25.45
		14	24	31		DS-12	26.00
					58	SPT-13	26.50-26.95
28.00m Hard, light brownish grey, silty clay with sand mixture. Obs. red spot.		15	25	33		DS-13	27.50
					41	SPT-14	28.00-28.45
		14	17	24		DS-14	29.00
					68	SPT-15	29.50-29.95
31.00m Very dense, light whitish grey, silty coarse sand.		17	30	38		DS-15	30.50
					63	SPT-16	31.00-31.45
		19	28	35		DS-16	32.00
					70	SPT-17	32.50-32.95
		19	30	40		DS-17	33.50
35.00m Very dense, reddish brown, silty sand.		22	30	41		SPT-18	34.00-34.45
					71	DS-18	35.00
		23	29	43		SPT-19	35.50-35.95
					72	DS-19	36.50
38.50m Hard, brownish grey, silty clay with sand mixture.		33	59	70	>100	SPT-20	37.00-37.45
						DS-20	38.00
		35	41	57	98	SPT-21	38.50-38.95
						DS-21	39.50
40.45m N.B. - '*' means sample could not be recovered.						SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.52

Co-ordinates E=(-)3059.000
N=3858.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 10/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.939 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0		0	DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m						0		
Very soft, brownish grey, silty clay / clayey silt. Obs. red spots.		0	0	0		0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
5.00m						2		
		0	1	1		2	SPT-3	5.00-5.45
Very loose to loose, deep grey, silty clayey sand.							UDS-3	6.00-6.45
		1	2	4		6	SPT-4	7.00-7.45
							*UDS-4	8.00-8.45
9.00m						8		
Loose, light greenish grey, silty clayey sand.		2	3	5		8	SPT-5	9.00-9.45
							UDS-5	10.00-10.45
11.00m						15		
		4	7	8		15	DS-2	11.00
Medium dense, light greenish grey, silty clayey sand.							SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
		0	7	10		17	DS-4	14.00
							SPT-7	14.50-14.95
15.50m							DS-5	15.50
							UDS-7	16.00-16.45
Very stiff, deep grey, silty clay / clayey silt with sand mixture.							DS-6	17.00
		6	7	13		20	SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m								
Dense, light greenish grey, silty fine sand.		12	18	23		41	DS-8	20.00
							SPT-9	20.50-20.95
21.50m							DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.52

Co-ordinates E=(-)3059.000
N=3858.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 10/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.939 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.50m Dense, light greenish grey, silty fine sand.		12	19	24	43		SPT-10	22.00-22.45
23.50m		17	22	29	51		DS-10	23.00
Very dense to dense, light greyish yellow, silty coarse sand.		10	24	25	49		SPT-11	23.50-23.95
26.50m		6	14	20	34		DS-11	24.50
Hard, yellowish grey, silty clay. Obs. brown patches.		11	16	19	35		SPT-12	25.00-25.45
29.50m		10	17	21	38		DS-12	26.00
Hard, light yellowish grey, silty clay / clayey silt with sand mixture.		12	16	25	41		SPT-13	26.50-26.95
32.00m		19	19	27	46		DS-13	27.50
Hard, whitish brown, silty clay with high % of sand.		22	27	33	60		SPT-14	28.00-28.45
35.50m		31	39	46	85		DS-14	29.00
Very dense, reddish brown, silty sand.		32	54	50	>100		SPT-15	29.50-29.95
38.00m		27	55	50	>100	9.0 cm Pentn.	DS-15	30.50
Hard, light brownsh grey, silty clay with sand mixture.		32	41	55	96	10.0 cm Pentn.	SPT-16	31.00-31.45
40.45m							DS-16	32.00
							SPT-17	32.50-32.95
							DS-17	33.50
							SPT-18	34.00-34.45
							DS-18	35.00
							SPT-19	35.50-35.95
							DS-19	36.50
							SPT-20	37.00-37.39
							DS-20	38.00
							SPT-21	38.50-38.90
							DS-21	39.50
							SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.53

Co-ordinates E=(-)3020.000
N=3858.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.991 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.4 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	1	1		DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	0	0		SPT-2	3.00-3.45
Very soft, light yellowish grey, silty clay / clayey silt with sand mixture. Obs. steel grey patches.							*UDS-2	4.00-4.45
5.00m		0	0	1	1		SPT-3	5.00-5.45
Very soft, deep grey, silty clay / clayey silt with high % of sand mixture.							*UDS-3	6.00-6.45
		0	0	1	1		SPT-4	7.00-7.45
8.00m							UDS-4	8.00-8.45
Soft, light grey, silty clay / clayey silt with high % of sand mixture.		1	1	2	3		SPT-5	9.00-9.45
							UDS-5	10.00-10.45
11.00m		4	6	10	16		DS-2	11.00
Very stiff, light greenish grey, silty clay / clayey silt with high % of sand mixture.							SPT-6	11.50-11.95
							DS-3	12.50
							*UDS-6	13.00-13.45
14.50m		6	8	14	22		DS-4	14.00
Medium dense, silty sand / sandy silt with clay lamination.							SPT-7	14.50-14.95
17.00m		15	20	26	46		DS-5	15.50
Desne, light grey, silty sand with traces of clay mixture.							*UDS-7	16.00-16.45
							DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
20.00m							UDS-8	19.00-19.45
Very dense, light yellowish grey, silty coarse sand.		14	21	32	53		DS-8	20.00
21.00m							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.53

Co-ordinates E=(-)3020.000
N=3858.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.991 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.4 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Very dense, light yellowish grey, silty coarse sand.		20	27	30	57		DS-9 SPT-10	21.50 22.00-22.45
23.50m Very dense, light brownish grey, silty coarse sand.		25	35	40	75		DS-10 SPT-11	23.00 23.50-23.95
25.00m Very dense, yellowish grey, silty sand / sandy silt. Obs. steel grey patches.		24	33	39	72		DS-11 SPT-12	24.50 25.00-25.45
26.50m Hard, yellowish brown, silty clay / clayey silt. Obs. steel grey patches & reddish spot.		7	21	35	56		DS-12 SPT-13	26.00 26.50-26.95
29.50m Dense to very dense, light grey, silty sand with traces of clay lamination. Obs. kankars.		13	23	32	55		DS-13 SPT-14	27.50 28.00-28.45
35.50m Very dense, whitish grey, silty coarse sand. Obs. clay lamination.		11	14	25	39		DS-14 SPT-15	29.00 29.50-29.95
38.50m Hard, brownish grey, silty clay / clayey silt with coarse sand mixture.		13	20	29	49		DS-15 SPT-16	30.50 31.00-31.45
39.50m Hard, deep brownish grey, silty clay / clayey silt. Obs. yellowish grey, silty sand coarse SPT shoe with reddish spot.		26	36	47	83		DS-16 SPT-17	32.00 32.50-32.95
40.18m		22	33	48	81		DS-17 SPT-18	33.50 34.00-34.45
		27	38	55	93		DS-18 SPT-19	35.00 35.50-35.95
		24	37	49	86		DS-19 SPT-20	36.50 37.00-37.45
		30	42	53	95		DS-20 SPT-21	38.00 38.50-38.95
		39	50		>100		DS-21 SPT-22	39.50 40.00-40.18
N.B. - '*' means sample could not be recovered.		3.0 cm Pentn.						

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.54

Co-ordinates E=(-)3000.000
N=3845.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	20	Level Of Ground : 9.026 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m Filled up soil consists of light grey, fly ash.		0	0	1	1		DS-1 SPT-1	0.50 1.00-1.45
2.50m Very soft, brownish grey, silty clay / clayey silt with high % of fine sand mixture.		0	0	0	0		*UDS-1 SPT-2	2.00-2.45 3.00-3.45
5.00m Very soft, deep grey, silty clay / clayey silt with high % of fine sand mixture.		0	0	1	1		*UDS-2 SPT-3	4.00-4.45 5.00-5.45
8.00m Medium, light grey, silty clay / clayey silt with high % of fine sand mixture.		0	1	1	2		*UDS-3 SPT-4	6.00-6.45 7.00-7.45
11.00m Stiff, light greenish grey, silty clay / clayey silt with high % of fine sand mixture.		3	3	4	7		UDS-4 SPT-5	8.00-8.45 9.00-9.45
13.00m Medium dense, light greenish grey, silty fine sand with traces of clay binder.		5	5	8	13		*UDS-5 DS-2 SPT-6	10.00-10.45 11.00 11.50-11.95
17.00m Hard, steel grey, silty clay / clayey silt with sand mixture.		4	7	10	17		DS-3 UDS-6 DS-4 SPT-7	12.50 13.00-13.45 14.00 14.50-14.95
19.45m Dense to very dense, light brownish grey, silty sand.		14	22	29	51		DS-5 *UDS-7 DS-6 SPT-8	15.50 16.00-16.45 17.00 17.50-17.95
21.00m		17	22	27	49		DS-7 UDS-8 DS-8 SPT-9	18.50 19.00-19.45 20.00 20.50-20.95

BORE HOLE NO.54

Co-ordinates	E=(-)3000.000 N=3845.000
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Field Test	Nos	Samples	Nos	Commencement Date :	09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date :	12/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter :	150 mm.
		Disturbed (DS)	20	Level Of Ground :	9.026 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense to very dense, light brownish grey, silty sand.						57	DS-9	21.50
		22	24	33			SPT-10	22.00-22.45
23.50m						58	DS-10	23.00
		20	27	31			SPT-11	23.50-23.95
Very dense, light yellowish grey, silty sand.						56	DS-11	24.50
		19	26	30			SPT-12	25.00-25.45
26.50m						44	DS-12	26.00
Hard, yellowish brown, silty clay / clayey silt. Obs. steel grey pebbles & reddish spot.		15	20	24			SPT-13	26.50-26.95
28.00m						54	DS-13	27.50
		17	24	30			SPT-14	28.00-28.45
Hard, yellowish brown, silty clay / clayey silt with sand mixture. Obs. reddish spot & grey patches.						55	DS-14	29.00
		20	26	29			SPT-15	29.45-29.90
31.00m						54	DS-15	30.50
		18	23	31			SPT-16	31.00-31.45
Very dense, light grey, silty sand with clay lamination.						61	DS-16	32.00
		22	27	34			SPT-17	32.50-32.95
						68	DS-17	33.50
		24	30	38			SPT-18	34.00-34.45
35.50m						82	DS-18	35.00
Very dense, light grey, silty sand / sandy silt.		26	37	45			SPT-19	35.50-35.95
37.00m						87	DS-19	36.50
		30	39	48			SPT-20	37.00-37.45
Hard, brownish grey, silty clay / clayey silt with sand mixture. Obs. grey patches & reddish spot.						>100	DS-20	38.00
		37	47	57			SPT-21	38.50-38.95
39.50m						>100	DS-21	39.50
Hard, deep brownish grey, silty clay clayey silt with sand mixture. Obs. 40.19m		53	50				SPT-22	40.00-40.19
N.B. - '*' means sample could not be recovered.				4.0	cm	Pentn.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.55

Co-ordinates E=(-)3039.000
N=3831.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 10/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.935 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0		0	DS-1	0.50
							SPT-1	1.00-1.45
2.50m							*UDS-1	2.00-2.45
Very soft, brownish grey, silty clay.		0	0	1		1	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
5.00m							SPT-3	5.00-5.45
Very loose, light grey, clayey silty sand.		0	1	0		1	*UDS-3	6.00-6.45
7.00m							SPT-4	7.00-7.45
Very soft, deep grey, clayey silt with sand / clayey sand.		0	1	1		2	UDS-4	8.00-8.45
9.00m							SPT-5	9.00-9.45
Stiff, steel grey / brownish grey, silty clay / clayey silt with sand mixture / clayey sand.		4	4	5		9	UDS-5	10.00-10.45
11.00m							DS-2	11.00
Medium dense, light greenish grey, silty fine sand.		3	6	8		14	SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
							DS-4	14.00
		6	11	13		24	SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
17.00m							DS-6	17.00
Hard, light grey, silty clay with high % of sand.		11	19	23		42	SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
							DS-8	20.00
20.50m							SPT-9	20.50-20.95
Dense to very dense, light brownish grey, silty sand.		13	19	21		40		
21.50m							DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.55

Co-ordinates E=(-)3039.000
N=3831.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 10/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.935 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Dense to very dense, light brownish grey, silty sand.		17	27	40	67	SPT-10	22.00-22.45
		18	29	43	72	DS-10	23.00
		18	28	38	66	SPT-11	23.50-23.95
						DS-11	24.50
						SPT-12	25.00-25.45
26.00m Hard, light brownish grey, silty clay / clayey silt.		12	17	24	41	DS-12	26.00
		13	20	25	45	SPT-13	26.50-26.95
						DS-13	27.50
						SPT-14	28.00-28.45
29.50m Hard, light brownish grey, silty clay with high % of coarse sand.		13	22	28	50	DS-14	29.00
		15	25	32	57	SPT-15	29.50-29.95
		17	31	35	66	DS-15	30.50
		18	30	37	67	SPT-16	31.00-31.45
						DS-16	32.00
35.00m Very dense, brownish grey, silty sand with clay lamination. Obs. red patches.		20	37	42	79	SPT-17	32.50-32.95
						DS-17	33.50
37.00m Very dense, whitish / pinkish grey, clayey silty sand.		21	33	41	74	SPT-18	34.00-34.45
		15	28	47	75	DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
40.45m		20	30	48	78	SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.56

Co-ordinates E=(-)3074.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.021 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		2	3	3				SPT-2	3.00-3.45
Medium, dark greenish grey, silty clay.								*UDS-2	4.00-4.45
5.00m		0	0	0				SPT-3	5.00-5.45
Very soft, dark brownish grey, silty clay with traces of organic matter.		1	1	1				UDS-3	6.00-6.45
								SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		1	3	2				SPT-5	9.00-9.45
Loose, light greenish grey, silty sand.		3	3	4				*UDS-5	10.00-10.45
								DS-2	11.00
13.00m								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
17.00m		3	5	5				DS-4	14.00
Loose, light greenish grey, silty sand with clay mixture.								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
21.00m		19	17	20				DS-6	17.00
Hard, greenish grey, silty clay. Obs. steel grey patches.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m		6	10	15				DS-8	20.00
Medium dense, brownish yellow, silty sand.								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.56

Co-ordinates E=(-)3074.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 27/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.021 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Medium dense, brownish yellow, silty sand.		7	14	18	32			DS-9	21.50
								SPT-10	22.00-22.45
		8	12	17	29			DS-10	23.00
								SPT-11	23.50-23.95
					33			DS-11	24.50
25.00m		8	13	20				SPT-12	25.00-25.45
					47			DS-12	26.00
		13	19	28				SPT-13	26.50-26.95
					44			DS-13	27.50
		11	20	24				SPT-14	28.00-28.45
Hard, brownish grey, silty clay / clayey silt. Obs. yellow patches.					42			DS-14	29.00
		13	23	19				SPT-15	29.50-29.95
					74			DS-15	30.50
		22	34	40				SPT-16	31.00-31.45
					57			DS-16	32.00
		17	25	32				SPT-17	32.50-32.95
34.00m					73			DS-17	33.50
		22	34	39				SPT-18	34.00-34.45
					80			DS-18	35.00
Hard, yellowish brown, silty clay with sand mixture. Obs. steel grey patches.		19	35	45				SPT-19	35.50-35.95
					85			DS-19	36.50
		30	41	44				SPT-20	37.00-37.45
38.00m					85			DS-20	38.00
Very dense, light greyish yellow, silty sand.		37	44	41				SPT-21	38.50-38.95
					88			DS-21	39.50
40.45m		25	40	48				SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.57

Co-ordinates E=(-)3139.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.258 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	1			SPT-2	3.00-3.45
Very soft, brownish grey, silty clay / clayey silt with sand mixture.							*UDS-2	4.00-4.45
5.00m		0	1	1			SPT-3	5.00-5.45
Very soft, deep grey, silty clay / clayey silt with high % of sand mixture.							*UDS-3	6.00-6.45
7.00m		0	2	2			SPT-4	7.00-7.45
Medium, brownish grey, clayey silt with sand mixture.							UDS-4	8.00-8.45
		2	2	3			SPT-5	9.00-9.45
10.00m							*UDS-5	10.00-10.45
Medium dense, steel grey / brownish grey, silty sand / sandy silt with clay lamination.		3	4	7			DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
							*UDS-6	13.00-13.45
		4	8	10			DS-4	14.00
							SPT-7	14.50-14.95
16.45m							UDS-7	16.00-16.45
Dense, steel grey to brownish grey, silty sand with traces of clay binder		16	15	27			DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m							DS-8	20.00
Dense, light brownish yellow, silty sand / sandy silt with clay lamination. Obs. steel grey patches.		14	16	29			SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.57

Co-ordinates E=(-)3139.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.258 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Dense, light brownish yellow, silty sand / sandy silt with clay lamination. Obs. steel grey patches.		13	18	30	48			DS-9	21.50
					56			SPT-10	22.00-22.45
23.50m Very dense, light brownish yellow, silty coarse sand.		15	24	32	55			DS-10	23.00
					55			SPT-11	23.50-23.95
26.50m Hard, brownish grey, silty clay with sand mixture. Obs. yellow patches.		9	20	26	46			DS-11	24.50
					51			SPT-12	25.00-25.45
29.50m Dense to dense, yellowish brown, silty sand / sandy silt with clay binder.		14	20	27	47			DS-12	26.00
					55			SPT-13	26.50-26.95
34.00m Very dense, yellowish brown, silty sand / sandy silt. Obs. steel grey patches.		18	26	29	77			DS-13	27.50
					74			SPT-14	28.00-28.45
38.50m Hard, borwnish grey, silty clay / clayey silt with sand mixture. Obs. yellow spot.		25	35	39	79			DS-14	29.00
					89			SPT-15	29.50-29.95
40.45m		31	42	47	>100			DS-15	30.50
					>100			SPT-16	31.00-31.45
N.B. - '*' means sample could not be recovered.		37	49	52				DS-16	32.00
								SPT-17	32.50-32.95
		39	49	57				DS-17	33.50
								SPT-18	34.00-34.45
								DS-18	35.00
								SPT-19	35.50-35.95
								DS-19	36.50
								SPT-20	37.00-37.45
								DS-20	38.00
								SPT-21	38.50-38.95
								DS-21	39.50
								SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.58

Co-ordinates E=(-)3155.000
N=3869.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.123 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.7 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
2.50m							*UDS-1	2.00-2.45
Very soft, brownish grey, silty clay / clayey silt with high % of fine sand mixture.		0	0	1			SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
5.00m							SPT-3	5.00-5.45
Very soft, deep grey, silty clay / clayey silt with sand mixture.		0	0	1			*UDS-3	6.00-6.45
							SPT-4	7.00-7.45
7.00m							*UDS-4	8.00-8.45
Medium, light grey, silty clay with sand mixture.		0	2	2			SPT-5	9.00-9.45
							UDS-5	10.00-10.45
10.00m							DS-2	11.00
Loose, light greenish grey, silty sand / sandy silt with fine sand mixture.		3	3	5			SPT-6	11.50-11.95
							DS-3	12.50
							*UDS-6	13.00-13.45
14.00m							DS-4	14.00
Medium dense, light greenish grey, silty sand silty sand / sandy silt with fine sand mixture.		3	5	7			SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.00m							DS-6	17.00
Hard, light greenish grey, silty clay clayey silt with fine sand mixture.		9	17	22			SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m							DS-8	20.00
Dense, light brownish yellow, silty sand / sandy silt with clay lamination.		8	15	29			SPT-9	20.50-20.95
Obs. steel grey patches.								
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.58

Co-ordinates E=(-)3155.000
N=3869.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.123 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.7 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense, light brownish yellow, silty sand / sandy silt with clay lamination. Obs. steel grey patches.		9	16	25	41		DS-9	21.50
23.50m Dense to very dense, light brownish yellow, silty sand. Obs. kankars.		10	17	19	36		SPT-10	22.00-22.45
26.50m Hard, yellowish grey, silty clay. Obs. reddish spot.		17	25	28	53		DS-10	23.00
29.50m Dense, yellowish brown, silty sand / sandy silt with clay binder.		12	26	27	53		SPT-11	23.50-23.95
31.00m Dense to very dense, steel grey, silty sand / sandy silt with clay lamination. Obs. yellow patches.		10	22	25	47		DS-11	24.50
37.00m Very dense, yellowish brown, silty sand / sandy silt. Obs. steel grey patches.		13	20	21	41		SPT-12	25.00-25.45
38.50m Hard, brownish grey, silty clay with sand mixture. Obs. light yellowish brown, sand at SPT-22.		18	22	27	49		DS-12	26.00
40.20m		17	39	40	79		SPT-13	26.50-26.95
		25	32	45	77		DS-13	27.50
		28	39	46	85		SPT-14	28.00-28.45
		31	40	48	88		DS-14	29.00
		36	51	57	>100		SPT-15	29.50-29.95
		39	50		>100		DS-15	30.50
					5.0 cm Pentn.		SPT-16	31.00-31.45
							DS-16	32.00
							SPT-17	32.50-32.95
							DS-17	33.50
							SPT-18	34.00-34.45
							DS-18	35.00
							SPT-19	35.50-35.95
							DS-19	36.50
							SPT-20	37.00-37.45
							DS-20	38.00
							SPT-21	38.50-38.95
							DS-21	39.50
							SPT-22	40.00-40.20

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.59

Co-ordinates E=(-)3220.000
N=3858.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.362 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.							DS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
						0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
						0	SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
						1	SPT-4	7.00-7.45
		0	0	1			*UDS-4	8.00-8.45
						2	SPT-5	9.00-9.45
Very loose, dark grey, silty sand with clay mixture.		1	1	1			UDS-5	10.00-10.45
						4	DS-2	11.00
		1	2	2			SPT-6	11.50-11.95
							DS-3	12.50
Very loose, light greenish grey, silty sand.							UDS-6	13.00-13.45
							DS-4	14.00
		7	11	19		30	SPT-7	14.50-14.95
							DS-5	15.50
Medium dense, light grey, silty coarse sand.							*UDS-7	16.00-16.45
							DS-6	17.00
		10	14	20		34	SPT-8	17.50-17.95
							DS-7	18.50
Dense, light greenish grey, silty sand.							UDS-8	19.00-19.45
							DS-8	20.00
		6	12	16		28	SPT-9	20.50-20.95
20.00m								
Medium dense, light yellow, silty sand.								
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.59

Co-ordinates E=(-)3220.000
N=3858.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.362 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Medium dense, light yellow, silty sand.		7	10	19	29		DS-9	21.50
							SPT-10	22.00-22.45
23.00m Dense, light yellow, silty sand.		9	13	18	31		DS-10	23.00
							SPT-11	23.50-23.95
		6	15	21	36		DS-11	24.50
							SPT-12	25.00-25.45
26.50m		8	22	35	57		DS-12	26.00
							SPT-13	26.50-26.95
		10	25	33	58		DS-13	27.50
							SPT-14	28.00-28.45
		15	24	39	63		DS-14	29.00
							SPT-15	29.50-29.95
		14	20	35	55		DS-15	30.50
							SPT-16	31.00-31.45
Hard, brownish grey to yellowish grey, sandy clay. Obs. red & steel grey patches.		21	30	42	72		DS-16	32.00
							SPT-17	32.50-32.95
		18	29	40	69		DS-17	33.50
							SPT-18	34.00-34.45
		20	33	45	78		DS-18	35.00
							SPT-19	35.50-35.95
		24	39	42	81		DS-19	36.50
							SPT-20	37.00-37.45
38.00m Very dense, greenish yellow, silty coarse sand.		20	48	50	98		DS-20	38.00
							SPT-21	38.50-38.95
		52	47	66	>100		DS-21	39.50
40.40m							SPT-22	40.00-40.40
N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.60

Co-ordinates E=(-)3299.000
N=3891.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.764 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.8 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m							DS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
		0	0	0		0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
4.50m		0	0	1		1	SPT-3	5.00-5.45
Very soft, deep grey, silty clay / clayey silt with sand mixture.							*UDS-3	6.00-6.45
		0	1	1		2	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
		2	3	3		6	SPT-5	9.00-9.45
9.00m							UDS-5	10.00-10.45
10.00m							DS-2	11.00
Stiff, light grey, silty clay / clayey silt with high % of sand.		2	5	6		11	SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
							DS-4	14.00
13.00m		8	10	18		28	SPT-7	14.50-14.95
14.50m							DS-5	15.50
Medium dense, greenish grey, silty coarse sand.							*UDS-7	16.00-16.45
							DS-6	17.00
		12	16	26		42	SPT-8	17.50-17.95
							DS-7	18.50
17.50m							UDS-8	19.00-19.45
Dense, greenish grey, clayey silty fine sand.							DS-8	20.00
		18	26	28		54	SPT-9	20.50-20.95
20.50m								
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.60

Co-ordinates E=(-)3299.000
N=3891.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.764 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.8 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Very dense, brownish grey, silty coarse sand with clay binder.		16	27	30	57		DS-9	21.50
							SPT-10	22.00-22.45
23.50m		10	23	33	56		DS-10	23.00
							SPT-11	23.50-23.95
		15	26	41	67		DS-11	24.50
							SPT-12	25.00-25.45
Very dense, brownish grey, silty coarse sand.		26	40	56	96		DS-12	26.00
							SPT-13	26.50-26.95
		21	38	49	87		DS-13	27.50
							SPT-14	28.00-28.45
		18	37	48	85		DS-14	29.00
							SPT-15	29.50-29.95
31.00m Hard, brownish grey, sandy clay with steel grey patches.		17	36	45	81		DS-15	30.50
							SPT-16	31.00-31.45
32.50m		12	24	32	56		DS-16	32.00
							SPT-17	32.50-32.95
Very dense, brownish grey, clayey sand. Obs. steel grey patches.		18	26	35	61		DS-17	33.50
							SPT-18	34.00-34.45
35.50m		17	22	31	53		DS-18	35.00
							SPT-19	35.50-35.95
Very dense, greenish yellow, silty sand / sandy silt with clay lamination. Obs. steel grey patches.		19	27	38	65		DS-19	36.50
							SPT-20	37.00-37.45
38.50m		31	45	47	92		DS-20	38.00
							SPT-21	38.50-38.95
Very dense, greenish yellow, silty coarse sand. Obs. reddish sand in SPT shoe.		42	50		>100		DS-21	39.50
40.20m							SPT-22	40.00-40.20
N.B. - '*' means sample could not be recovered.								

5.0 cm Pentn.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.61

Co-ordinates E=(-)3299.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	7	Completion Date : 24/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 10.338 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
		0	0	0				SPT-2	3.00-3.45
4.00m								*UDS-2	4.00-4.45
Very soft, yellowish grey, silty clay silt / silty sand.		0	0	0				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
		1	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
7.45m		2	3	4				SPT-5	9.00-9.45
Medium, dark grey, silty clay with sand mixture.								UDS-5	10.00-10.45
		1	2	2				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
10.00m								*UDS-6	13.00-13.45
Loose, light grey, silty sand / sandy silt.		4	6	8				DS-4	14.00
								SPT-7	14.50-14.95
		6	10	13				UDS-7	16.00-16.45
								DS-6	17.00
12.50m								SPT-8	17.50-17.95
Medium dense, light grey, silty sand / sandy silt.								DS-7	18.50
								UDS-8	19.00-19.45
		10	17	20				DS-8	20.00
								SPT-9	20.50-20.95
20.00m									
Dense to very dense, light yellowish grey, silty sand with steel grey patches.									
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.61

Co-ordinates E=(-)3299.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	7	Completion Date : 24/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 10.338 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense to very dense, light yellowish grey, silty sand with steel grey patches.		12	20	29	49		DS-9	21.50
							SPT-10	22.00-22.45
		8	13	20	33		DS-10	23.00
							SPT-11	23.50-23.95
		18	33	40	73		DS-11	24.50
							SPT-12	25.00-25.45
26.00m Very dense, light yellowish grey, silty sand.		25	44	49	93		DS-12	26.00
							SPT-13	26.50-26.95
		21	40	46	86		DS-13	27.50
							SPT-14	28.00-28.45
		18	32	40	72		DS-14	29.00
							SPT-15	29.50-29.95
		23	36	47	83		DS-15	30.50
							SPT-16	31.00-31.45
32.00m Very dense, yellowish brown, silty sand. Obs. steel grey patches.		18	35	41	76		DS-16	32.00
							SPT-17	32.50-32.95
		20	31	45	76		DS-17	33.50
							SPT-18	34.00-34.45
35.00m Hard, brownish yellow, silty clay with fine sand mixture.		20	26	32	58		DS-18	35.00
							SPT-19	35.50-35.95
		21	35	40	75		DS-19	36.50
							SPT-20	37.00-37.45
38.00m Hard, light yellowish grey, silty clay with fine sand mixture. Obs. steel grey patches in SPT-22.		29	44	49	93		DS-20	38.00
							SPT-21	38.50-38.95
		45	31	42	73		DS-21	39.50
40.45m N.B. - '*' means sample could not be recovered.							SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.62

Co-ordinates E=(-)2980.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 06/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.082 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm.							Ref. No	Depth (m)
0.00m										
Filled up soil consists of light grey, fly ash.		0	0	0					DS-1	0.50
									SPT-1	1.00-1.45
2.50m									*UDS-1	2.00-2.45
Very loose, light grey, silty sand.		0	0	1					SPT-2	3.00-3.45
									*UDS-2	4.00-4.45
		0	1	1					SPT-3	5.00-5.45
									*UDS-3	6.00-6.45
7.00m										
Very loose to loose, deep grey, clayey silty sand.		0	2	2					SPT-4	7.00-7.45
									*UDS-4	8.00-8.45
9.45m		2	3	6					SPT-5	9.00-9.45
Medium dense, steel grey, silty sand / sandy silt.									UDS-5	10.00-10.45
		4	6	7					DS-2	11.00
									SPT-6	11.50-11.95
									DS-3	12.50
13.00m									*UDS-6	13.00-13.45
Very stiff, steel grey / light greenish grey, silty clay / clayey silt with sand mixture.		5	8	16					DS-4	14.00
									SPT-7	14.50-14.95
									DS-5	15.50
									UDS-7	16.00-16.45
									DS-6	17.00
17.50m		8	13	16					SPT-8	17.50-17.95
Medium dense, light greenish grey with steel grey, silty fine sand.									DS-7	18.50
									UDS-8	19.00-19.45
20.00m										
Very dense, light greenish grey with steel grey, silty fine sand.									DS-8	20.00
20.50m										

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.62

Co-ordinates E=(-)2980.000
N=3818.000

Field Test	Nos	Samples	Nos	Commencement Date : 06/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.082 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Very dense, light greenish grey with steel grey, silty fine sand.		18	25	27	52	SPT-9	20.50-20.95
21.50m					66	DS-9	21.50
22.00m		22	30	36	64	SPT-10	22.00-22.45
23.00m					64	DS-10	23.00
23.50m Very dense, light yellowish grey, silty sand / sandy silt with clay lamination. Obs. steel grey patches.		23	27	37	63	SPT-11	23.50-23.95
24.50m					63	DS-11	24.50
25.00m		27	35	28	37	SPT-12	25.00-25.45
26.00m					55	DS-12	26.00
26.50m Hard, deep yellowish brown with steel grey, silty clay.		8	16	21	63	SPT-13	26.50-26.95
27.50m					63	DS-13	27.50
28.00m		17	20	35	63	SPT-14	28.00-28.45
29.00m					63	DS-14	29.00
29.50m Very dense, steel grey with yellowish brown, silty sand.		15	24	39	63	SPT-15	29.50-29.95
30.50m					63	DS-15	30.50
31.00m		17	28	35	65	SPT-16	31.00-31.45
32.00m					77	DS-16	32.00
32.50m		18	23	42	86	SPT-17	32.50-32.95
33.50m					43	DS-17	33.50
34.00m Very dense, whitish grey to deep grey, silty sand with laminated clay binder. Obs. reddish spots.		21	30	47	50	SPT-18	34.00-34.45
35.00m					50	DS-18	35.00
35.50m		27	33	53	50	SPT-19	35.50-35.95
36.50m					43	DS-19	36.50
37.00m		10	18	25	50	SPT-20	37.00-37.45
38.00m					50	DS-20	38.00
38.50m Hard, deep yellowish brown, silty clay with sand mixture.		15	22	28	50	SPT-21	38.50-38.95
39.50m					50	DS-21	39.50
40.00m		17	21	29		SPT-22	40.00-40.45
40.45m N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.63

Co-ordinates E=(-)3000.000
N=3796.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.926 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1/WS-1	0.50
								SPT-1	1.00-1.45
2.50m								*UDS-1	2.00-2.45
Very loose, light grey, clayey silty sand.		0	0	1				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	1	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.00m									
Loose, deep grey, clayey silty sand.		1	2	3				SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
9.00m									
Loose, steel grey, silty sand / sandy silt.		3	4	5				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
								DS-2	11.00
11.50m								SPT-6	11.50-11.95
		4	7	8				DS-3	12.50
								UDS-6	13.00-13.45
Medium dense, light greenish grey, silty fine sand.								DS-4	14.00
		5	7	15				SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
								DS-6	17.00
17.50m								SPT-8	17.50-17.95
		8	15	18				DS-7	18.50
Dense, greenish grey / steel grey, silty fine sand.								UDS-8	19.00-19.45
								DS-8	20.00
20.50m									
Very dense, light yellowish grey, silty sand. Obs. steel grey patches.		13	22	33				SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

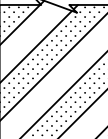
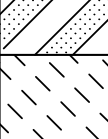
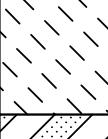
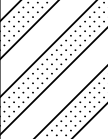
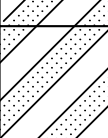
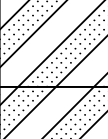
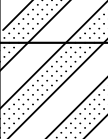
Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.63

Co-ordinates E=(-)3000.000
N=3796.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.926 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Very dense, light yellowish grey, silty sand. Obs. steel grey patches.		12	20	39	59	SPT-10	22.00-22.45
23.50m Very dense, brownish yellow, silty sand. Obs. steel grey patches.		15	27	37	64	DS-10	23.00
26.50m Hard, yellowish brown to steel grey, silty clay.		18	22	47	69	SPT-11	23.50-23.95
29.50m Very dense, deep yellowish brown to steel grey silty sand / sandy silt. Obs. reddish spots.		16	32	43	75	DS-11	24.50
32.50m Very dense, whitish grey, silty sand with yellow patches.		16	35	30	65	SPT-12	25.00-25.45
35.50m Very dense, whitish grey, silty coarse sand with yellowish patches.		17	29	34	63	DS-12	26.00
37.00m Very dense, brownish grey, silty sand with clay lamination.		18	27	43	70	SPT-13	26.50-26.95
40.45m		25	33	48	81	DS-13	27.50
		27	32	45	77	SPT-14	28.00-28.45
		30	33	46	79	DS-14	29.00
		33	37	48	85	SPT-15	29.50-29.95
		56	35	44	79	DS-15	30.50
						SPT-16	31.00-31.45
						DS-16	32.00
						SPT-17	32.50-32.95
						DS-17	33.50
						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
						SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.64

Co-ordinates E=(-)3020.000
N=3778.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.926 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0	0		DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
2.50m		0	0	0	0		SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
Very loose, light grey, silty sand / sandy silt.		0	1	0	1		SPT-3	5.00-5.45
							UDS-3	6.00-6.45
		0	1	1	2		SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m		1	1	2	3		SPT-5	9.00-9.45
							UDS-5	10.00-10.45
Soft to medium, steel grey, silty clay / clayey silt with sand mixture / clayey sand.		2	3	5	8		DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
							*UDS-6	13.00-13.45
14.50m		8	8	13	21		DS-4	14.00
Medium dense, light greenish grey, silty fine sand.							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
17.00m		10	12	23	35		DS-6	17.00
							SPT-8	17.50-17.95
Very dense, light greenish grey, silty fine sand.							DS-7	18.50
							UDS-8	19.00-19.45
							DS-8	20.00
20.75m		14	24	35	59		SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.64

Co-ordinates E=(-)3020.000
N=3778.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.926 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
20.75m Very dense, light greenish grey, silty fine sand.		16	27	36	63		DS-9 SPT-10	21.50 22.00-22.45
23.50m Very dense, light yellowish grey, silty coarse sand.		22	28	35	63		DS-10 SPT-11	23.00 23.50-23.95
26.00m Hard, whitish grey, silty clay with deep brownish spot.		28	32	36	68		DS-11 SPT-12	24.50 25.00-25.45
31.00m Very dense, whitish grey, silty coarse sand.		13	24	28	52		DS-12 SPT-13	26.00 26.50-26.95
34.00m Very dense, deep yellowish brown, silty sand.		17	28	31	59		DS-13 SPT-14	27.50 28.00-28.45
37.00m Hard, brownish grey, silty clay.		16	29	33	62		DS-14 SPT-15	29.00 29.50-29.95
38.50m Very dense, light brownish yellow, silty fine sand.		13	25	36	61		DS-15 SPT-16	30.50 31.00-31.45
40.45m N.B. - '*' means sample could not be recovered.		17	29	32	61		DS-16 SPT-17	32.00 32.50-32.95
		15	26	39	65		DS-17 SPT-18	33.50 34.00-34.45
		18	32	40	72		DS-18 SPT-19	35.00 35.50-35.95
		18	30	41	71		DS-19 SPT-20	36.50 37.00-37.45
		22	39	48	87		DS-20 SPT-21	38.00 38.50-38.95
		25	38	45	83		DS-21 SPT-22	39.50 40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.65

Co-ordinates E=(-)3074.000
N=3771.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 31/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.14 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	0			SPT-2	3.00-3.45
Very soft, brownish grey, silty clay with fine sand mixture.							*UDS-2	4.00-4.45
		0	1	0			SPT-3	5.00-5.45
							UDS-3	6.00-6.45
7.00m		0	0	1			SPT-4	7.00-7.45
Vey soft, blackish grey, silty clay.							UDS-4	8.00-8.45
9.00m		2	3	4			SPT-5	9.00-9.45
Medium, brownish grey, sandy clay.							UDS-5	10.00-10.45
10.00m		0	2	2			DS-2	11.00
Medium, greenish grey, silty clay.							SPT-6	11.50-11.95
							DS-3	12.50
		3	4	4			*UDS-6	13.00-13.45
							DS-4	14.00
15.50m		8	13	15			SPT-7	14.50-14.95
Very stiff, steel grey, silty clay / clayey silt with laminated sand.							DS-5	15.50
							*UDS-7	16.00-16.45
							DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m							DS-8	20.00
Dense, light greyish yellow, silty sand.		12	18	20			SPT-9	20.50-20.95
20.75m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.65

Co-ordinates E=(-)3074.000
N=3771.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 31/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.14 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
20.75m Dense, light greyish yellow, silty sand.		9	15	19	34		DS-9	21.50
							SPT-10	22.00-22.45
		7	12	15	27		DS-10	23.00
							SPT-11	23.50-23.95
		11	19	22	41		DS-11	24.50
							SPT-12	25.00-25.45
26.00m Hard, brownish grey, silty clay.		14	20	33	53		DS-12	26.00
							SPT-13	26.50-26.95
		10	14	29	43		DS-13	27.50
							SPT-14	28.00-28.45
		14	15	27	42		DS-14	29.00
							SPT-15	29.50-29.95
		17	22	37	59		DS-15	30.50
							SPT-16	31.00-31.45
32.00m Hard, yellowish brown, silty clay with sand mixture.		20	31	40	71		DS-16	32.00
							SPT-17	32.50-32.95
		25	30	32	62		DS-17	33.50
							SPT-18	34.00-34.45
		27	33	29	62		DS-18	35.00
							SPT-19	35.50-35.95
		22	39	45	84		DS-19	36.50
							SPT-20	37.00-37.45
38.00m Hard, light yellowish grey, silty clay with sand mixture.		31	40	45	85		DS-20	38.00
							SPT-21	38.50-38.95
		29	35	40	75		DS-21	39.50
							SPT-22	40.00-40.45
40.45m N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 23/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.66

Co-ordinates E=(-)3039.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.035 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								UDS-1	2.00-2.45
3.40m		0	0	1				SPT-2	3.00-3.45
Very loose, deep grey, clayey silty sand.								UDS-2	4.00-4.45
		0	1	0				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
7.45m		2	2	3				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
		4	5	6				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
Medium dense, light greenish grey, silty fine sand.								DS-2	11.00
		6	8	8				SPT-6	11.50-11.95
								DS-3	12.50
14.95m		8	11	13				UDS-6	13.00-13.45
Dense, light greenish grey / steel grey, silty sand / sandy silt.								DS-4	14.00
		8	14	20				SPT-7	14.50-14.95
								DS-5	15.50
19.00m								UDS-7	16.00-16.45
Very dense, light brownish grey, silty sand.								DS-6	17.00
		11	21	31				SPT-8	17.50-17.95
								DS-7	18.50
21.50m								UDS-8	19.00-19.45
								DS-8	20.00
								SPT-9	20.50-20.95
								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 23/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.66

Co-ordinates E=(-)3039.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.035 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Very dense, light brownish grey, silty sand.		16	24	29	53	SPT-10	22.00-22.45
						DS-10	23.00
		18	32	38	70	SPT-11	23.50-23.95
						DS-11	24.50
25.00m Hard, brownish grey, silty clay. Obs. yellow sopt.		14	21	27	48	SPT-12	25.00-25.45
						DS-12	26.00
		13	17	21	38	SPT-13	26.50-26.95
						DS-13	27.50
28.00m Hard, brownish grey, silty clay with traces of sand mixture.		16	22	26	48	SPT-14	28.00-28.45
						DS-14	29.00
		17	24	29	53	SPT-15	29.50-29.95
						DS-15	30.50
		16	28	37	65	SPT-16	31.00-31.45
						DS-16	32.00
32.50m Very dense, yellowish grey, silty sand with traces of clay binder.		18	34	42	76	SPT-17	32.50-32.95
						DS-17	33.50
		12	21	30	51	SPT-18	34.00-34.45
						DS-18	35.00
		15	23	32	55	SPT-19	35.50-35.95
						DS-19	36.50
36.50m Very dense, light grey, silty sand.		22	36	45	81	SPT-20	37.00-37.45
						DS-20	38.00
38.50m Very dense, light brownish grey, silty sand with traces of clay lamination.		23	37	45	82	SPT-21	38.50-38.95
						DS-21	39.50
40.45m		21	33	42	75	SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.67

Co-ordinates E=(-)3059.000
N=3738.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.122 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	1				SPT-2	3.00-3.45
Very soft, light brownish grey, silty clay.								*UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.00m		0	1	1				SPT-4	7.00-7.45
Soft, deep grey, silty clay with sand mixture / clayey sand.								UDS-4	8.00-8.45
9.00m		1	2	3				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
Stiff, light grey, silty clay with high % of sand mixture.		2	4	5				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
14.50m		5	7	7				DS-4	14.00
Medium dense, light greenish grey, silty sand.								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
		9	14	15				DS-6	17.00
								SPT-8	17.50-17.95
19.00m								DS-7	18.50
Light yellowish grey, silty clay / clayey silt.								UDS-8	19.00-19.45
								DS-8	20.00
20.50m		11	20	26				SPT-9	20.50-20.95
Dense to very desne, light brownish grey, silty sand.									
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

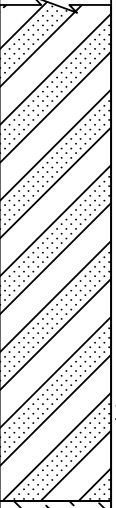
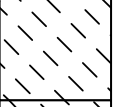
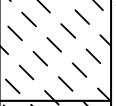
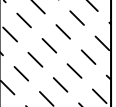
Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.67

Co-ordinates E=(-)3059.000
N=3738.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.122 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Desne to very dense, light brownish grey, silty sand.		13	23	31	54			DS-9	21.50
								SPT-10	22.00-22.45
		21	23	38	61			DS-10	23.00
								SPT-11	23.50-23.95
		19	22	35	57			DS-11	24.50
								SPT-12	25.00-25.45
		23	34	45	79			DS-12	26.00
								SPT-13	26.50-26.95
28.00m Hard, light grey, silty clay with coarse sand mixture.		16	22	35	57			DS-13	27.50
								SPT-14	28.00-28.45
29.50m Hard, reddish brownish grey, silty clay with high % of coarse sand mixture.		15	21	31	52			DS-14	29.00
								SPT-15	29.50-29.95
		14	21	29	50			DS-15	30.50
								SPT-16	31.00-31.45
32.50m Hard, brownish grey, silty clay with high % of coarse sand mixture.		10	13	20	33			DS-16	32.00
								SPT-17	32.50-32.95
		11	15	21	36			DS-17	33.50
								SPT-18	34.00-34.45
35.50m Hard, deep brownish grey, silty clay with fine sand mixture. Obs. reddish spot.		19	24	26	50			DS-18	35.00
								SPT-19	35.50-35.95
		18	24	28	52			DS-19	36.50
								SPT-20	37.00-37.45
		14	23	24	47			DS-20	38.00
								SPT-21	38.50-38.95
		13	17	23	40			DS-21	39.50
								SPT-22	40.00-40.45
40.45m N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.68

Co-ordinates E=(-)2980.000
N=3738.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.964 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.00m								*UDS-1	2.00-2.45
		0	0	1				SPT-2	3.00-3.45
Very soft to soft, light brownish grey to deep grey, silty clay with traces of sand mixture.								*UDS-2	4.00-4.45
		0	1	0				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
		1	1	2				SPT-4	7.00-7.45
8.45m								UDS-4	8.00-8.45
		3	4	5				SPT-5	9.00-9.45
Stiff to very stiff, deep grey, sandy silty clay.								*UDS-5	10.00-10.45
		4	8	11				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.50m		11	15	21				DS-4	14.00
Dense, light greenish grey, silty sand.								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
17.50m		7	12	15				DS-6	17.00
Medium dense, light greenish grey, silty sand with traces of clay lamination.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.68

Co-ordinates E=(-)2980.000
N=3738.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.964 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		13	17	24	41	SPT-9	20.50-20.95
						DS-9	21.50
		15	20	25	45	SPT-10	22.00-22.45
						DS-10	23.00
		14	21	27	48	SPT-11	23.50-23.95
						DS-11	24.50
25.00m		16	26	31	57	SPT-12	25.00-25.45
						DS-12	26.00
		18	29	33	62	SPT-13	26.50-26.95
						DS-13	27.50
28.00m		19	29	37	66	SPT-14	28.00-28.45
						DS-14	29.00
		20	31	42	73	SPT-15	29.50-29.95
						DS-15	30.50
31.00m		19	28	37	65	SPT-16	31.00-31.45
						DS-16	32.00
		20	31	38	69	SPT-17	32.50-32.95
						DS-17	33.50
34.00m		27	31	34	65	SPT-18	34.00-34.45
						DS-18	35.00
		30	37	33	70	SPT-19	35.50-35.95
						DS-19	36.50
		25	32	35	67	SPT-20	37.00-37.45
						DS-20	38.00
38.50m		27	37	41	78	SPT-21	38.50-38.95
						DS-21	39.50
40.45m		26	35	42	77	SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.69

Co-ordinates E=(-)3000.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 11/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.723 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.00m								*UDS-1	2.00-2.45
		0	0	1				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Very loose to loose, light yellowish grey to deep grey, clayey silty sand.		1	1	2				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
		1	2	4				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m									
		2	4	6				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
Medium dense, steel grey to light grey, clayey silty sand.		5	8	11				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.50m								DS-4	14.00
		9	15	21				SPT-7	14.50-14.95
Dense, light yellowish grey, silty sand.								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
17.50m								SPT-8	17.50-17.95
Dense, light greenish grey, silty sand.		11	19	25				DS-7	18.50
								UDS-8	19.00-19.45
20.00m								DS-8	20.00
Very dense, light yellowish grey, silty medium to coarse sand.		16	24	27				SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.69

Co-ordinates E=(-)3000.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 11/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.723 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m					52		
Hard, yellowish grey to brownish grey, silty clay. Obs. pinkish spot.		15	25	27		SPT-10	22.00-22.45
					55	DS-10	23.00
		17	26	29		SPT-11	23.50-23.95
					44	DS-11	24.50
		15	20	24		SPT-12	25.00-25.45
					41	DS-12	26.00
		14	18	23		SPT-13	26.50-26.95
					43	DS-13	27.50
		12	19	24		SPT-14	28.00-28.45
					46	DS-14	29.00
27.50m		13	21	25		SPT-15	29.50-29.95
Hard, deep brown, silty clay. Obs. yellow patches.					58	DS-15	30.50
		16	25	33		SPT-16	31.00-31.45
					53	DS-16	32.00
		15	22	31		SPT-17	32.50-32.95
30.50m					71	DS-17	33.50
Very dense, steel grey, clayey silty sand with traces of kankars. Obs. brownish spot.		17	33	38		SPT-18	34.00-34.45
					71	DS-18	35.00
		19	32	39		SPT-19	35.50-35.95
					>100	DS-19	36.50
33.50m		20	61	50	8.0 cm Pentn.	SPT-20	37.00-37.38
Hard grey, silty clay with traces of fine sand mixture. Obs. brownish patches.					59	DS-20	38.00
		16	28	31		SPT-21	38.50-38.95
					54	DS-21	39.50
36.50m		18	25	29		SPT-22	40.00-40.45
38.50m							
40.45m							
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 23/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.70

Co-ordinates E=(-)3039.000
N=3714.000

Field Test	Nos	Samples	Nos	Commencement Date : 06/12/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 07/12/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.937 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	0			SPT-2	3.00-3.45
Very soft, brownish grey, silty clay with sand mixture.							*UDS-2	4.00-4.45
		0	0	1			SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
7.00m		2	3	4			SPT-4	7.00-7.45
Medium, deep grey, silty clay with sand mixture.							UDS-4	8.00-8.45
		3	4	6			SPT-5	9.00-9.45
10.00m							UDS-5	10.00-10.45
Stiff, yellowish grey to light grey, silty clay / clayey silt with sand mixture.		2	4	6			DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
							*UDS-6	13.00-13.45
14.00m		7	12	15			DS-4	14.00
Medium dense, yellowish grey, silty fine sand.							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.50m		10	17	25			DS-6	17.00
Hard, yellowish grey, silty clay with fine sand mixture.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.50m		15	20	24			DS-8	20.00
Hard, yellowish grey, silty clay with sand mixture.							SPT-9	20.50-20.95
21.50m							DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 23/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.70

Co-ordinates E=(-)3039.000
N=3714.000

Field Test	Nos	Samples	Nos	Commencement Date : 06/12/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 07/12/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.937 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.2 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Hard, yellowish grey, silty clay with sand mixture.		10	22	25	47	SPT-10	22.00-22.45
23.50m		20	28	42	70	DS-10	23.00
Very dense, grey, silty coarse sand.		27	45	55	100	SPT-11	23.50-23.95
		24	55	60	>100	DS-11	24.50
		20	25	55	80	SPT-12	25.00-25.45
		18	22	35	57	DS-12	26.00
28.00m Very dense, steel grey, silty sand with traces of mica.		15	24	27	51	SPT-13	26.50-26.95
30.50m		16	26	27	53	DS-13	27.50
Very dense, yellowish / brownish grey, silty coarse sand with clay lamination.		8	13	21	34	SPT-14	28.00-28.45
		9	15	24	39	DS-14	29.00
34.00m Hard, reddish brownish grey, silty clay.		11	19	24	43	SPT-15	29.50-29.95
37.00m		13	23	40	63	DS-15	30.50
Hard, reddish brown, silty clay with low % of coarse sand mixture. Obs. light brownish grey, silty clay.						SPT-16	31.00-31.45
						DS-16	32.00
						SPT-17	32.50-32.95
						DS-17	33.50
40.50m						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						*UDS-9	38.50-38.62
						DS-21	39.50
						SPT-21	40.05-40.50

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.71

Co-ordinates E=(-)3074.000
N=3699.000

Field Test	Nos	Samples	Nos	Commencement Date : 03/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.328 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	0			SPT-2	3.00-3.45
Very soft, brownish grey, silty clay with sand mixture.							*UDS-2	4.00-4.45
		0	0	0			SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
7.00m		0	0	1			SPT-4	7.00-7.45
Very soft, deep grey, silty clay with sand mixture / clayey sand.							UDS-4	8.00-8.45
		0	1	1			SPT-5	9.00-9.45
10.00m		1	2	3			UDS-5	10.00-10.45
Loose, brownish grey, silty sand. Obs. clay lamination.							DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
							*UDS-6	13.00-13.45
14.50m		5	9	13			DS-4	14.00
Medium dense, steel grey, silty fine sand.							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
17.50m		10	13	15			DS-6	17.00
Medium dense, yellowish grey, silty fine sand. Obs. clay lamination.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.50m		13	24	32			DS-8	20.00
Very dense, brownish grey, silty coarse sand.							SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.71

Co-ordinates E=(-)3074.000
N=3699.000

Field Test	Nos	Samples	Nos	Commencement Date : 03/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.328 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m					58		DS-9	21.50
Very dense, brownish grey, silty coarse sand.		16	27	31			SPT-10	22.00-22.45
					60		DS-10	23.00
		16	26	34			SPT-11	23.50-23.95
25.00m					77		DS-11	24.50
Hard, light yellowish grey, silty clay with fine sand mixture.		18	28	49			SPT-12	25.00-25.45
					82		DS-12	26.00
		19	27	55			SPT-13	26.50-26.95
28.00m					47		DS-13	27.50
Hard, brownish grey, silty clay with high % of sand.		12	20	27			SPT-14	28.00-28.45
					51		DS-14	29.00
		13	21	30			SPT-15	29.50-29.95
					51		DS-15	30.50
		16	22	29			SPT-16	31.00-31.45
33.50m					47		DS-16	32.00
Hard, brownish grey, silty clay with sand mixture.		15	20	27			SPT-17	32.50-32.95
					64		DS-17	33.50
		13	18	46			SPT-18	34.00-34.45
35.50m					68		DS-18	35.00
Hard, brownish grey, silty clay with sand mixture.		15	20	48			SPT-19	35.50-35.95
					35		DS-19	36.50
		12	15	20			SPT-20	37.00-37.45
38.00m					37		DS-20	38.00
Hard, deep brownish grey, silty clay with sand mixture.		13	16	21			SPT-21	38.50-38.95
					40		DS-21	39.50
		13	17	23			SPT-22	40.00-40.45
40.45m								
N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.72

Co-ordinates E=(-)3020.000
N=3699.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.874 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	1			SPT-2	3.00-3.45
Very soft, deep grey, silty clay with traces of sand mixture.							*UDS-2	4.00-4.45
		0	1	0			SPT-3	5.00-5.45
							UDS-3	6.00-6.45
8.00m		1	1	1			SPT-4	7.00-7.45
Medium dense, deep grey, silty sand with traces of clay mixture.							UDS-4	8.00-8.45
		2	4	5			SPT-5	9.00-9.45
							*UDS-5	10.00-10.45
11.00m		5	7	10			DS-2	11.00
Medium dense, light greenish grey, silty sand.							SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
14.00m		7	15	22			DS-4	14.00
Dense, light greenish grey, silty sand.							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
18.50m		8	17	23			DS-6	17.00
Very dense, brownish grey / yellowish grey, silty sand.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
21.50m		15	25	27			DS-8	20.00
							SPT-9	20.50-20.95
							DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.72

Co-ordinates E=(-)3020.000
N=3699.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 09/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.874 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m					59		
Very dense, brownish grey / yellowish grey, silty sand.		15	26	33		SPT-10	22.00-22.45
					65	DS-10	23.00
		17	28	37		SPT-11	23.50-23.95
					61	DS-11	24.50
		16	25	36		SPT-12	25.00-25.45
27.50m					56	DS-12	26.00
		15	22	34		SPT-13	26.50-26.95
					49	DS-13	27.50
		17	23	26		SPT-14	28.00-28.45
					44	DS-14	29.00
Dense, yellow, brownish grey, clayey silty sand.		14	19	25		SPT-15	29.50-29.95
					51	DS-15	30.50
30.50m		12	22	29		SPT-16	31.00-31.45
Hard, light grey, silty clay with sand mixture.					60	DS-16	32.00
		14	27	33		SPT-17	32.50-32.95
32.00m					54	DS-17	33.50
		16	23	31		SPT-18	34.00-34.45
					57	DS-18	35.00
		17	25	32		SPT-19	35.50-35.95
					58	DS-19	36.50
Hard, yellowish grey to brownish grey, silty clay with high % of sand mixture.		15	25	33		SPT-20	37.00-37.45
					61	DS-20	38.00
		16	28	33		SPT-21	38.50-38.95
37.00m					>100	DS-21	39.50
		34	67	46		SPT-22	40.00-40.45
40.45m							
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.73

Co-ordinates E=(-)3045.000
N=3983.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.225 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
Very soft, brownish grey to deep grey, silty clay with sand mixture.								*UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
6.00m								*UDS-3	6.00-6.45
Medium, brownish grey to deep grey, silty clay with sand mixture.		1	2	3				SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
9.00m		3	6	8				SPT-5	9.00-9.45
Stiff to very stiff, light grey, silty clay with sand mixture / clayey sand.								UDS-5	10.00-10.45
		3	7	11				DS-2	11.00
								SPT-6	11.50-11.95
13.00m								DS-3	12.50
Medium dense, light grey, silty sand.		8	10	10				UDS-6	13.00-13.45
								DS-4	14.00
								SPT-7	14.50-14.95
		9	11	16				DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
								SPT-8	17.50-17.95
19.00m								DS-7	18.50
Hard, light greenish grey, silty clay with traces of sand.								UDS-8	19.00-19.45
		9	21	24				DS-8	20.00
								SPT-9	20.50-20.95
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.73

Co-ordinates E=(-)3045.000
N=3983.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.225 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Hard, light greenish grey, silty clay with traces of sand.								DS-9	21.50
22.00m		11	24	31				SPT-10	22.00-22.45
Very dense, brownish grey to whitish grey, silty sand.								DS-10	23.00
		12	29	47				SPT-11	23.50-23.95
25.00m								DS-11	24.50
Hard, brownish grey, silty clay. Obs. traces of kankars.		16	29	40				SPT-12	25.00-25.45
								DS-12	26.00
		21	31	37				SPT-13	26.50-26.95
28.00m								DS-13	27.50
Hard, steel grey, sandy silty clay with brownish spots.		17	27	34				SPT-14	28.00-28.45
								DS-14	29.00
		16	28	29				SPT-15	29.50-29.95
31.00m								DS-15	30.50
Very dense, brownish grey, clayey coarse sand.		18	30	42				SPT-16	31.00-31.45
								DS-16	32.00
		22	33	57				SPT-17	32.50-32.95
34.00m								DS-17	33.50
Hard, brownish grey, silty clay.		21	38	53				SPT-18	34.00-34.45
								DS-18	35.00
		19	51	40				SPT-19	35.50-35.88
37.00m								DS-19	36.50
Very dense, light grey, silty sand.		27	42	54				SPT-20	37.00-37.45
								DS-20	38.00
		41	69	40				SPT-21	38.50-38.85
39.50m								DS-21	39.50
Hard, brownish grey, silty clay with traces of sand mixture.		11	18	28				SPT-22	40.00-40.45
40.45m									
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.74

Co-ordinates E=(-)2955.000
N=3916.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 16/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.613 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								WS-1	0.45
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.50m								*UDS-1	2.00-2.45
		0	0	1				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
Very loose to loose, brownish grey to deep grey, clayey silty sand.		0	1	2				*UDS-3	6.00-6.45
								SPT-4	7.00-7.45
		2	3	4				UDS-4	8.00-8.45
9.00m								SPT-5	9.00-9.45
Loose, brownish grey / steel grey, clayey silty sand.		2	3	5				UDS-5	10.00-10.45
								DS-2	11.00
11.00m								SPT-6	11.50-11.95
		9	15	19				DS-3	12.50
								UDS-6	13.00-13.45
								DS-4	14.00
		14	20	22				SPT-7	14.50-14.95
Dense, light greenish grey / steel grey, silty fine sand.								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
		12	17	27				SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m								DS-8	20.00
Dense, light greenish yellow, silty sand.		18	19	29				SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.74

Co-ordinates E=(-)2955.000
N=3916.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 16/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.613 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Dense, light greenish yellow, silty sand.	21.50m 22.00m	24	38	45	83		SPT-10	22.00-22.45
Very dense, whitish grey, silty sand. Obs. grey patches.		19	34	40	74		DS-10	23.00
		12	25	39	64		SPT-11	23.50-23.95
		10	20	33	53		DS-11	24.50
		16	23	32	55		SPT-12	25.00-25.45
Hard, yellowish grey, silty clay with sand mixture.	26.00m	11	29	34	63		DS-12	26.00
Hard, brownish grey, silty clay.	28.00m	18	30	36	66		SPT-13	26.50-26.95
		15	28	39	67		DS-13	27.50
		30	38	41	79		SPT-14	28.00-28.45
		34	40	42	82		DS-14	29.00
		37	43	48	91		SPT-15	29.50-29.95
		28	39	46	85		DS-15	30.50
Very dense, yellowish brown, silty sand. Obs. steel grey patches.	34.00m	35	44	49	93		SPT-16	31.00-31.45
							DS-16	32.00
							SPT-17	32.50-32.95
Very dense, light greyish yellow, silty coarse sand.	39.00m						DS-17	33.50
							SPT-18	34.00-34.45
	40.45m						DS-18	35.00
							SPT-19	35.50-35.95
							DS-19	36.50
							SPT-20	37.00-37.45
							DS-20	38.00
							SPT-21	38.50-38.95
							DS-21	39.50
							SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.75

Co-ordinates E=(-)2940.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.741 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0	0	0	0	DS-1	0.50
								SPT-1	1.00-1.45
2.50m							0	*UDS-1	2.00-2.45
Very loose, light brownish grey, clayey silty sand.		0	0	0				SPT-2	3.00-3.45
							2	*UDS-2	4.00-4.45
5.00m		0	1	1				SPT-3	5.00-5.45
							4	*UDS-3	6.00-6.45
Very loose, deep grey, clayey silty sand.		1	2	2				SPT-4	7.00-7.45
							7	UDS-4	8.00-8.45
9.00m		2	3	4				SPT-5	9.00-9.45
							9	UDS-5	10.00-10.45
Loose, light greenish grey, silty sand.		2	4	5				DS-2	11.00
								SPT-6	11.50-11.95
13.00m								DS-3	12.50
								UDS-6	13.00-13.45
Medium dense, light greenish grey / steel grey, silty fine sand.		4	6	7			13	DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
17.00m								*UDS-7	16.00-16.45
							36	DS-6	17.00
		12	19	17				SPT-8	17.50-17.95
Hard, light greenish grey / steel grey, silty clay / clayey silt with laminated sand.								DS-7	18.50
							46	UDS-8	19.00-19.45
		19	27	19				DS-8	20.00
								SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.75

Co-ordinates E=(-)2940.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.741 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Very dense, light yellowish grey, silty sand / sandy silt.		19	27	45	72	SPT-10	22.00-22.45
					80	DS-10	23.00
		21	37	43	72	SPT-11	23.50-23.95
					70	DS-11	24.50
25.00m Hard, yellowish brown to steel grey, silty clay with whitish grey sand mixture.		22	30	42	75	SPT-12	25.00-25.45
		16	31	39	70	DS-12	26.00
					75	SPT-13	26.50-26.95
					74	DS-13	27.50
28.00m Very dense, light yellow, silty coarse sand. Obs. steel grey patches.		22	35	40	63	SPT-14	28.00-28.45
		26	33	41	59	DS-14	29.00
					84	SPT-15	29.50-29.95
					92	DS-15	30.50
31.00m Very dense, deep yellowish brown / whitish grey, silty coarse sand.		27	30	33	80	SPT-16	31.00-31.45
		22	23	36	93	DS-16	32.00
					84	SPT-17	32.50-32.95
					92	DS-17	33.50
34.00m Very dense, brownish yellow / whitish grey, silty sand.		22	38	46	80	SPT-18	34.00-34.45
		19	35	57	93	DS-18	35.00
					80	SPT-19	35.50-35.95
					93	DS-19	36.50
37.00m Very dense, light brownish yellow, silty coarse sand. Obs. silty clay in SPT cutting shoe (SPT-21).		23	38	42	72	SPT-20	37.00-37.45
		21	46	47	93	DS-20	38.00
					72	SPT-21	38.50-38.95
					72	DS-21	39.50
39.50m Hard, brownish grey, silty clay.		22	32	40		SPT-22	40.05-40.50
40.50m							
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.76

Co-ordinates E=(-)2900.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 30/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 01/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.152 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	1				SPT-2	3.00-3.45
Very soft, light grey, silty clay.								*UDS-2	4.00-4.45
5.00m		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
Very soft, deep grey, silty clay with high % of sand mixture.		0	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		0	1	3				SPT-5	9.00-9.45
Medium, brownish grey, clayey silt with high % of sand mixture / clayey sand.								UDS-5	10.00-10.45
11.50m		3	8	10				DS-2	11.00
Medium dense, light grey, silty sand.								SPT-6	11.50-11.95
								DS-3	12.50
		4	5	10				UDS-6	13.00-13.45
15.50m								DS-4	14.00
Steel grey, silty clay / clayey silt with sand mixture.								SPT-7	14.50-14.95
17.00m		15	19	25				DS-5	15.50
Dense, light grey, sandy silt traces of clay mixture.								UDS-7	16.00-16.45
								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.76

Co-ordinates E=(-)2900.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 30/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 01/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.152 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		17	28	35	63	SPT-9	20.50-20.95
					70	DS-9	21.50
		20	32	38		SPT-10	22.00-22.45
					53	DS-10	23.00
Very dense, light grey, silty sand. Obs. clay binder.		16	24	29		SPT-11	23.50-23.95
					59	DS-11	24.50
		18	27	32		SPT-12	25.00-25.45
					50	DS-12	26.00
26.50m		16	22	28		SPT-13	26.50-26.95
Hard, reddish grey, silty clay with sand mixture.					56	DS-13	27.50
28.00m		19	25	31		SPT-14	28.00-28.45
Hard, brownish grey, silty clay with sand.					51	DS-14	29.00
29.50m		20	23	28		SPT-15	29.50-29.95
					63	DS-15	30.50
Very dense, brownish grey, silty sand with traces of clay lamination.		24	30	33		SPT-16	31.00-31.45
					70	DS-16	32.00
		26	33	37		SPT-17	32.50-32.95
					57	DS-17	33.50
34.00m		21	24	33		SPT-18	34.00-34.45
					72	DS-18	35.00
Very dense, brownish grey to whitish grey, silty sand with clay lamination.		25	31	41		SPT-19	35.50-35.95
					84	DS-19	36.50
		26	35	49		SPT-20	37.00-37.45
					98	DS-20	38.00
39.00m		28	41	57		SPT-21	38.50-38.95
Very dense, brownish grey, silty sand with clay mixture.					>100	DS-21	39.50
40.45m		31	47	60		SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.77

Co-ordinates E=(-)2940.000
N=3849.000

Field Test	Nos	Samples	Nos	Commencement Date : 14/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 16/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.726 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m Filled up soil consists of light grey, fly ash.		0	0	0	0	0	0	DS-1	0.50
								SPT-1	1.00-1.45
2.45m Very loose, light grey, clayey silty sand.		0	1	0	0	0	1	*UDS-1	2.00-2.45
								SPT-2	3.00-3.45
5.00m Very loose, deep grey, clayey silty sand.		0	1	1	0	0	2	*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
		1	2	2	0	0	4	*UDS-3	6.00-6.45
								SPT-4	7.00-7.45
9.45m Medium dense, light grey, clayey silty sand. Obs. yellow patches.		2	2	3	0	0	5	UDS-4	8.00-8.45
								SPT-5	9.00-9.45
		3	5	7	0	0	12	UDS-5	10.00-10.45
								DS-2	11.00
12.50m Medium dense, light greenish grey, silty fine sand.		6	9	12	0	0	21	SPT-6	11.50-11.95
								DS-3	12.50
		9	12	14	0	0	26	UDS-6	13.00-13.45
								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
20.00m Very dense, yellowish brown, silty coarse sand.								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.77

Co-ordinates E=(-)2940.000
N=3849.000

Field Test	Nos	Samples	Nos	Commencement Date : 14/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 16/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.726 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Very dense, yellowish brown, silty coarse sand.		18	30	36	66	SPT-9	20.50-20.95
						DS-9	21.50
		22	34	42	76	SPT-10	22.00-22.45
23.00m Very dense, steel grey, silty coarse sand. Obs. kankars & gravels.		32	54	62	>100	DS-10	23.00
						SPT-11	23.50-23.95
						DS-11	24.50
25.00m Hard, light yellowish brown / brownish grey, silty clay.		18	29	35	64	SPT-12	25.00-25.45
						DS-12	26.00
		16	28	32	60	SPT-13	26.50-26.95
						DS-13	27.50
28.00m Very dense, steel grey, clayey silty sand. Obs. yellow patches.		15	31	37	68	SPT-14	28.00-28.45
						DS-14	29.00
		17	33	41	74	SPT-15	29.50-29.95
						DS-15	30.50
		19	31	45	76	SPT-16	31.00-31.45
						DS-16	32.00
32.50m Hard, steel grey, silty clay with sand mixture. Obs. brownish patches.		18	35	48	83	SPT-17	32.50-32.95
						DS-17	33.50
		20	39	46	85	SPT-18	34.00-34.45
						DS-18	35.00
		22	48	58	>100	SPT-19	35.50-35.95
						DS-19	36.50
		21	43	56	99	SPT-20	37.00-37.45
						DS-20	38.00
38.45m Hard, deep brownish grey, silty clay. Obs. yellow patches.		19	25	31	56	SPT-21	38.45-38.90
						DS-21	39.50
40.45m N.B. - '*' means sample could not be recovered.		17	26	30	56	SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.78

Co-ordinates E=(-)2900.000
N=3849.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.231 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m									
Very soft, light grey, silty clay.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
5.00m									
Very loose, deep grey, clayey sand.		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	1	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		1	2	3				SPT-5	9.00-9.45
Medium, brownish grey, clayey silt with high % of sand.								*UDS-5	10.00-10.45
								DS-2	11.00
11.50m		5	6	7				SPT-6	11.50-11.95
Stiff, brownish grey, silty clay with sand mixture.								DS-3	12.50
13.00m								UDS-6	13.00-13.45
Medium dense, light grey, silty sand with clay binder.		5	7	8				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.00m		15	18	22				DS-6	17.00
Hard, light grey, sandy clayey silt.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.78

Co-ordinates E=(-)2900.000
N=3849.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.231 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		15	21	26	47	SPT-9	20.50-20.95
Dense to very dense, light brownish grey, silty sand with traces of mica.					54	DS-9	21.50
		17	25	29		SPT-10	22.00-22.45
23.50m					71	DS-10	23.00
		18	30	41		SPT-11	23.50-23.95
Very dense, light brownish grey, silty sand with clay lamination.					73	DS-11	24.50
		20	33	40		SPT-12	25.00-25.45
26.50m					59	DS-12	26.00
		16	23	36		SPT-13	26.50-26.95
Hard, reddish brown, silty clay / clayey silt.					55	DS-13	27.50
		19	25	30		SPT-14	28.00-28.45
29.50m					60	DS-14	29.00
		21	28	32		SPT-15	29.50-29.95
Very dense to dense, brownish grey, silty sand with clay lamination.					40	DS-15	30.50
		14	18	22		SPT-16	31.00-31.45
34.00m					43	DS-16	32.00
		15	19	24		SPT-17	32.50-32.95
Very dense, brownish grey / whitish grey, silty coarse sand.					65	DS-17	33.50
		21	27	38		SPT-18	34.00-34.45
37.45m					65	DS-18	35.00
		24	32	33		SPT-19	35.50-35.95
Hard, brownish grey / whitish grey, silty clay wth high % of sand mixture.					68	DS-19	36.50
		23	31	37		SPT-20	37.00-37.45
N.B. - '*' means sample could not be recovered.					>100	DS-20	38.00
		14	69	54	5.0 cm Pentn.	SPT-21	38.50-38.85
40.45m					78	DS-21	39.50
		23	37	41		SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.79

Co-ordinates E=(-)2940.000
N=3816.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.977 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1/WS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
Very soft, light grey, silty clay / clayey silt with sand mixture.								*UDS-2	4.00-4.45
5.00m		0	0	1				SPT-3	5.00-5.45
Very soft, deep grey, silty clay with with high % of sand mixture.								*UDS-3	6.00-6.45
		0	0	2				SPT-4	7.00-7.45
8.45m								*UDS-4	8.00-8.45
Stiff, deep grey, silty clay with high % of sand mixture / clayey sand		1	1	2				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.00m								DS-2	11.00
Medium, light greeish grey, silty clay / clayey silt with fine sand mixture.		2	2	3				SPT-6	11.50-11.95
12.50m								DS-3	12.50
Loose, light greenish grey, silty sand with clay lamination.		3	4	4				*UDS-6	13.00-13.45
								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
17.00m								UDS-7	16.00-16.45
Dense, light grey, silty sand with traces of clay mixture.		12	18	25				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m								DS-8	20.00
Very dense, light yellowish grey, silty sand.		14	22	38				SPT-9	20.50-20.95
20.75m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.79

Co-ordinates E=(-)2940.000
N=3816.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.977 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.50 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
20.75m Very dense, light yellowish grey, silty sand.		15	28	39	67		DS-9 SPT-10	21.50 22.00-22.45
24.00m Very dense, brownish grey, silty sand with clay binder.		17	33	38	71		DS-10 SPT-11	23.00 23.50-23.95
26.00m Hard, brownish grey, silty clay / clayey silt with sand mixture. Obs. reddish spot.		23	34	37	71		DS-11 SPT-12	24.50 25.00-25.45
29.50m Very dense, light yellowish brown, clayey sand.		28	33	42	75		DS-12 SPT-13	26.00 26.50-26.95
32.50m Very dense, yellowish brown, silty coarse sand with steel grey patches.		20	28	36	64		DS-13 SPT-14	27.50 28.00-28.45
35.50m Very dense, light yellowish grey, silty coarse sand.		23	30	38	68		DS-14 SPT-15	29.00 29.50-29.95
38.50m Very dense, light yellowish grey, silty medium sand.		24	34	40	74		DS-15 SPT-16	30.50 31.00-31.45
40.21m N.B. - '*' means sample could not be recovered.		25	36	39	75		DS-16 SPT-17	32.00 32.50-32.95
		27	39	47	83		DS-17 SPT-18	33.50 34.00-34.45
		29	36	45	86		DS-18 SPT-19	35.00 35.50-35.95
		32	61		81		DS-19 SPT-20	36.50 37.00-37.45
		38	50		>100		DS-20 SPT-21	38.00 38.50-38.75
					10.0 cm Pentn.		DS-21 SPT-22	39.50 40.00-40.21
					6.0 cm Pentn.			

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.80

Co-ordinates E=(-)2900.000
N=3816.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 27/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.165 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1 WS-1 SPT-1	0.50 0.65 1.00-1.45
3.00m							*UDS-1	2.00-2.45
Very soft, deep grey, silty clay.		0	0	0			SPT-2	3.00-3.45
5.00m							*UDS-2	4.00-4.45
Very soft, deep grey, silty clay with high % of sand / clayey sand.		0	0	1			SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
		0	0	1			SPT-4	7.00-7.45
8.45m							UDS-4	8.00-8.45
Loose, brownish grey, clayey silty sand. Obs. gravels.		2	3	5			SPT-5	9.00-9.45
							UDS-5	10.00-10.45
		4	5	5			DS-2	11.00
13.45m							SPT-6	11.50-11.95
Stiff, light grey, silty clay / clayey silt. Obs. fine sand mixture.							DS-3	12.50
		4	6	6			UDS-6	13.00-13.45
							DS-4	14.00
17.50m							SPT-7	14.50-14.95
Hard, light brownish grey, silty clay / clayey silt. Obs. steel grey patches.							DS-5	15.50
		12	18	25			UDS-7	16.00-16.45
							DS-6	17.00
21.00m							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
							DS-8	20.00
		19	20	29			SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.80

Co-ordinates E=(-)2900.000
N=3816.000

Field Test	Nos	Samples	Nos	Commencement Date : 26/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 27/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.165 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Hard, light brownish grey, silty clay / clayey silt. Obs. steel grey patches.	21.00m						DS-9	21.50
	22.00m						*UDS-9	22.00-22.45
Very dense, brownish grey, silty medium sand.						65	DS-10	23.00
		19	27	38			SPT-10	23.50-23.95
						67	DS-11	24.50
		24	30	37			SPT-11	25.00-25.45
						52	DS-12	26.00
	26.50m						SPT-12	26.50-26.95
Hard, yellowish brownish grey, silty clay / clayey silt. Obs. sand mixture.						51	DS-13	27.50
		11	20	31			SPT-13	28.00-28.45
						45	DS-14	29.00
	29.50m						SPT-14	29.50-29.95
Dense, brownish grey / whitish grey, silty coarse sand. Obs. clay lamination, kankars.						34	DS-15	30.50
		12	16	18			SPT-15	31.00-31.45
						66	DS-16	32.00
	32.50m						SPT-16	32.50-32.95
Very dense, brownish grey / whitish grey, silty, coarse sand. Obs. clay lamination, kankars.						65	DS-17	33.50
		22	29	39			SPT-17	34.00-34.45
						49	DS-18	35.00
		13	18	31			SPT-18	35.50-35.95
						56	DS-19	36.50
	37.00m						SPT-19	37.00-37.45
Hard, brownish grey, silty clay. Obs. sand mixture / lamination SPT-20.						55	DS-20	38.00
		12	18	37			SPT-20	38.50-38.95
						86	DS-21	39.50
	40.55m						SPT-21	40.10-40.55
N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.81

Co-ordinates E=(-)2846.000
N=3816.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.173 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.25 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m									
Very soft, light grey, silty clay with sand mixture. Obs. brownish spot.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	0	1				SPT-4	7.00-7.45
9.00m								UDS-4	8.00-8.45
Very soft, deep brownish grey, silty clay with sand mixture.		0	1	1				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.50m								DS-2	11.00
Loose, light grey, silty sand with clay lamination.		1	2	3				SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.50m								DS-4	14.00
Loose, light brown, silty sand.		3	3	4				SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
17.50m								DS-6	17.00
Hard, light brownish grey, silty clay with sand mixture.		12	20	30				SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 10/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.81

Co-ordinates E=(-)2846.000
N=3816.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.173 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.25 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Hard, light brownish grey, silty clay with sand mixture.		22	33	36	69	SPT-9	20.50-20.95
22.00m Very dense, light brownish grey, silty sand with traces of clay.		20	27	30	57	DS-9	21.50
23.50m Very dense, light brownish grey, clayey sand with traces of silt.		21	30	36	66	SPT-10	22.00-22.45
26.50m Very dense, brownish grey, silty sand with clay mixture.		23	34	38	72	DS-10	23.00
29.50m Very dense, brownish grey, clayey sand.		19	25	27	52	SPT-11	23.50-23.95
32.50m Dense, whitish grey, silty coarse sand.		21	27	34	61	DS-11	24.50
35.45m Very dense, brownish grey / whitish grey, silty coarse sand. Obs. clay lamination.		18	27	33	60	SPT-12	25.00-25.45
38.40m Hard, brownish grey, silty clay with traces of sand. Obs. brown spot.		17	25	30	55	DS-12	26.00
N.B. - '*' means sample could not be recovered.		16	20	24	44	SPT-13	26.50-26.95
		17	22	27	49	DS-13	27.50
		19	30	42	72	SPT-14	28.00-28.45
		21	32	45	77	DS-14	29.00
		13	21	27	48	SPT-15	29.50-29.95
		22	40	49	89	DS-15	30.50
						SPT-16	31.00-31.45
						DS-16	32.00
						SPT-17	32.50-32.95
						DS-17	33.50
						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
						SPT-22	40.10-40.55

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.82

Co-ordinates E=(-)2940.000
N=3790.000

Field Test	Nos	Samples	Nos	Commencement Date : 12/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.784 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
Filled up soil consists of light grey, fly ash.	0.00m						DS-1	0.50
	1.00m	0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
		0	1	0		1	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	1	1		2	SPT-3	5.00-5.45
							UDS-3	6.00-6.45
		1	2	3		5	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
		2	2	2		4	SPT-5	9.00-9.45
	10.00m						*UDS-5	10.00-10.45
		2	3	3		6	DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
	13.00m						UDS-6	13.00-13.45
		7	10	14		24	DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
	17.00m						DS-6	17.00
		12	17	21		38	SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.45
		14	19	24		43	DS-8	20.00
							SPT-9	20.50-20.95
	21.50m						DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.82

Co-ordinates E=(-)2940.000
N=3790.000

Field Test	Nos	Samples	Nos	Commencement Date : 12/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 14/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.784 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Hard, light greenish grey / light yellowish grey, silty clay with sand mixture.		15	21	28	49	SPT-10	22.00-22.45
					49	DS-10	23.00
		13	22	27	49	SPT-11	23.50-23.95
24.50m Hard, steel grey, silty clay. Obs. traces of kankars & gravels.		11	23	29	52	DS-11	24.50
					55	SPT-12	25.00-25.45
		10	25	30	64	DS-12	26.00
28.00m Very dense, light yellowish grey, silty sand with clay lamination.		13	28	36	74	SPT-13	26.50-26.95
					69	DS-13	27.50
31.00m Very dense, greyish brown, silty sand with clay lamination.		18	34	40	68	SPT-14	28.00-28.45
					57	DS-14	29.00
34.00m Hard, steel grey, silty clay with sand mixture.		20	31	38	44	SPT-15	29.50-29.95
					47	DS-15	30.50
		20	28	40	100	SPT-16	31.00-31.45
					10.0 cm Penth.	DS-16	32.00
39.50m Very dense, yellowish brown, silty sand.		16	25	32	49	SPT-17	32.50-32.95
40.25m		14	20	29	44	DS-17	33.50
					47	SPT-18	34.00-34.45
		15	20	24	49	DS-18	35.00
					47	SPT-19	35.50-35.95
		15	21	26	44	DS-19	36.50
					47	SPT-20	37.00-37.45
		61	50		100	DS-20	38.00
					10.0 cm Penth.	SPT-21	38.50-38.95
					10.0 cm Penth.	DS-21	39.50
					10.0 cm Penth.	SPT-22	40.00-40.25

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.83

Co-ordinates E=(-)2940.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 11/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.714 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of fly ash.								DS-1	0.50
		0	0	0			0	SPT-1	1.00-1.45
								UDS-1	2.00-2.45
3.30m		0	1	0			1	SPT-2	3.00-3.45
Very loose to loose, deep grey, clayey silty sand.								UDS-2	4.00-4.45
		0	0	1			1	SPT-3	5.00-5.45
								UDS-3	6.00-6.45
6.70m		2	3	5			8	SPT-4	7.00-7.45
Medium dense, light greenish grey, silty sand.								UDS-4	8.00-8.45
		7	8	8			16	SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.00m		6	9	12			21	DS-2	11.00
Medium dense, light grey, silty clay, coarse sand.								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.00m		8	13	19			32	DS-4	14.00
Dense, light greenish grey, silty fine sand with clay mixture.								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
17.00m		9	13	21			34	DS-6	17.00
Dense, light greenish grey, silty sand.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m		14	19	23			42	DS-8	20.00
Dense, yellowish / brownish grey, silty sand.								SPT-9	20.50-20.95
								DS-9	21.50
21.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 30/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.83

Co-ordinates E=(-)2940.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 11/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.714 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Dense, yellowish / brownish grey, silty sand.		15	20	25	45	SPT-10	22.00-22.45
						DS-10	23.00
		13	18	23	41	SPT-11	23.50-23.95
						DS-11	24.50
24.50m Hard, steel grey, silty clay. Obs. brown spots.		12	18	24	42	SPT-12	25.00-25.45
						DS-12	26.00
		12	19	26	45	SPT-13	26.50-26.95
						DS-13	27.50
27.50m Hard, steel grey, steel grey, silty clay with traces of sand mixture. Obs. brown spots & reddish spots.		10	18	22	40	SPT-14	28.00-28.45
						DS-14	29.00
		10	19	24	43	SPT-15	29.50-29.95
						DS-15	30.50
30.50m Hard, steel grey, silty clay with sand mixture. Obs. brown patches.		14	21	25	46	SPT-16	31.00-31.45
						DS-16	32.00
		16	22	28	50	SPT-17	32.50-32.95
						DS-17	33.50
33.50m Very dense, steel grey / brownish grey, clayey silty sand.		19	31	34	65	SPT-18	34.00-34.45
						DS-18	35.00
		21	32	33	65	SPT-19	35.50-35.95
						DS-19	36.50
		22	35	39	74	SPT-20	37.00-37.45
						DS-20	38.00
		19	37	43	80	SPT-21	38.50-38.95
						DS-21	39.50
39.50m Very dense, brownish yellow, silty sand.		98	70		>100	SPT-22	40.00-40.20
40.50m					5.0 cm Penth.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.84

Co-ordinates E=(-)2900.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.831 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m							DS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0			SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m							SPT-2	3.00-3.45
Very soft, bluish grey, silty clay.		0	0	0			*UDS-2	4.00-4.45
							SPT-3	5.00-5.45
5.00m							*UDS-3	6.00-6.45
Very soft, light yellowish grey, silty clay.		0	0	1			SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m		3	6	8			SPT-5	9.00-9.45
Stiff, light brownish grey, silty clay.							UDS-5	10.00-10.45
11.00m		2	4	8			DS-2	11.00
Medium dense, light greenish grey, silty sand.		6	8	12			SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
							DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.00m		7	15	25			DS-6	17.00
Dense, light yellowish grey, silty sand with traces of clay binder.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m							DS-8	20.00
Very dense, light brownish grey, silty sand.		17	28	39			SPT-9	20.50-20.95
20.75m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.84

Co-ordinates E=(-)2900.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 05/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.831 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
20.75m Very dense, light brownish grey, silty sand.		13	29	39	68		DS-9 SPT-10	21.50 22.00-22.45
23.50m Very dense, light brownish grey, silty sand with clay binder.		15	31	42	73		DS-10 SPT-11	23.00 23.50-23.95
26.00m Very dense, light brownish grey, silty sand.		13	24	31	55		DS-11 SPT-12	24.50 25.00-25.45
28.00m Hard, brownish grey, silty clay. Obs. sand mixture.		16	28	33	61		DS-12 SPT-13	26.00 26.50-26.95
30.00m Very dense, brownish grey / yellowish brown, silty clayey sand.		18	33	36	69		DS-13 SPT-14	27.50 28.00-28.45
37.00m Hard, light yellowish grey, silty clay with sand mixture. Obs. brown patches.		17	23	34	57		DS-14 SPT-15	29.00 29.50-29.95
40.45m N.B. - '*' means sample could not be recovered.		21	25	37	62		DS-15 SPT-16	30.50 31.00-31.45
		24	32	43	75		DS-16 SPT-17	32.00 32.50-32.95
		26	37	48	85		DS-17 SPT-18	33.50 34.00-34.45
		30	35	52	87		DS-18 SPT-19	35.00 35.50-35.95
		27	40	48	88		DS-19 SPT-20	36.50 37.00-37.45
		35	44	53	97		DS-20 SPT-21	38.00 38.50-38.95
		20	32	40	72		DS-21 SPT-22	39.50 40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.85

Co-ordinates E=(-)2940.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.841 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.50m								*UDS-1	2.00-2.45
Very loose, brownish grey, clayey silty sand.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.00m									
Very loose, deep grey, clayey silty sand.		0	1	2				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m									
Loose, steel grey, clayey silty sand.		3	4	5				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.50m								DS-2	11.00
Medium dense, light greenish grey, silty fine sand.		7	10	17				SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.00m								DS-4	14.00
Dense to very dense, light greenish grey, silty fine sand.		6	12	20				SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
		7	13	18				SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.85

Co-ordinates E=(-)2940.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.841 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Dense to very dense, light greenish grey, silty fine sand.		17	23	32	55	SPT-9	20.50-20.95
21.50m						DS-9	21.50
Very dense, light brownish yellow, silty sand / sandy silt. Obs. steel grey patches.		20	25	37	62	SPT-10	22.00-22.45
						DS-10	23.00
		18	27	38	65	SPT-11	23.50-23.95
						DS-11	24.50
25.00m Very dense, deep yellowish brown, clayey sand. Obs. reddish spots.		17	42	41	83	SPT-12	25.00-25.45
						DS-12	26.00
26.50m		15	30	44	74	SPT-13	26.50-26.95
Hard, brownish grey, silty clay with whitish grey, fine sand mixture. Obs. yellow patches.		17	29	39	68	DS-13	27.50
						SPT-14	28.00-28.45
						DS-14	29.00
29.50m Dense, light yellow / deep yellow, silty fine sand. Obs. steel grey patches.		12	18	25	43	SPT-15	29.50-29.95
						DS-15	30.50
31.00m Very dense, greyish pink, silty sand / sandy silt.		20	27	37	64	SPT-16	31.00-31.45
						DS-16	32.00
32.50m Very dense, whitish grey, silty coarse sand. Obs. yellow patches.		16	30	34	64	SPT-17	32.50-32.95
						DS-17	33.50
		18	37	39	76	SPT-18	34.00-34.45
						DS-18	35.00
35.50m Hard, deep brown / deep yellowish brown, silty clay.		10	15	28	43	SPT-19	35.50-35.95
						DS-19	36.50
		19	20	28	48	SPT-20	37.00-37.45
						DS-20	38.00
38.50m Hard, steel grey, deep yellowish brown, silty clay with fine sand mixture.		13	27	30	57	SPT-21	38.50-38.95
						DS-21	39.50
40.50m N.B. - '*' means sample could not be recovered.		21	24	36	60	SPT-22	40.05-40.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.86

Co-ordinates E=(-)2900.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/07/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.862 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0	0		DS-1	0.50
							SPT-1	1.00-1.45
2.50m							*UDS-1	2.00-2.45
Very loose, deep grey, clayey silty sand.		0	1	0	1		SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	1	0	1		SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
7.00m		0	1	2	3		SPT-4	7.00-7.45
Loose, light greenish grey, silty fine sand.		3	4	4	8		UDS-4	8.00-8.45
							SPT-5	9.00-9.45
							UDS-5	10.00-10.45
11.00m		5	6	7	13		DS-2	11.00
Medium dense, light greenish grey, silty fine sand.							SPT-6	11.50-11.95
							DS-3	12.50
13.00m							UDS-6	13.00-13.45
		9	13	19	32		DS-4	14.00
Dense, light greenish grey, silty fine sand.							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
17.30m		9	17	23	40		DS-6	17.00
Hard, light greenish grey / light grey, silty clay with sand mixture.							SPT-8	17.50-17.95
							DS-7	18.50
19.00m							UDS-8	19.00-19.45
Very dense, light brownish grey to yellowish grey, silty sand.							DS-8	20.00
20.75m		9	27	33	60		SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.86

Co-ordinates E=(-)2900.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 07/07/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.862 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
20.75m Very dense, light brownish grey to yellowish grey, silty sand.		17	29	35	64		DS-9	21.50
							SPT-10	22.00-22.45
		20	34	43	77		DS-10	23.00
							SPT-11	23.50-23.95
		21	34	44	78		DS-11	24.50
							SPT-12	25.00-25.45
26.00m Hard, light grey / steel grey, silty clay with yellowish brown, laminated sand mixture.		10	20	28	48		DS-12	26.00
							SPT-13	26.50-26.95
		14	24	30	54		DS-13	27.50
							SPT-14	28.00-28.45
29.00m Dense to very dense, brownish grey, silty sand with laminated clay binder.		14	19	24	43		DS-14	29.00
							SPT-15	29.50-29.95
		17	23	29	52		DS-15	30.50
							SPT-16	31.00-31.45
		12	17	26	43		DS-16	32.00
							SPT-17	32.50-32.95
		16	21	30	51		DS-17	33.50
							SPT-18	34.00-34.45
35.00m Hard, brownish grey, silty clay with laminated sand mixture.		24	28	30	58		DS-18	35.00
							SPT-19	35.50-35.95
		21	30	33	63		DS-19	36.50
							SPT-20	37.00-37.45
		15	24	36	60		DS-20	38.00
							SPT-21	38.50-38.95
		21	25	29	54		DS-21	39.50
							SPT-22	40.00-40.45
40.45m N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.87

Co-ordinates E=(-)2940.00
N=3694.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.977 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.35 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m Filled up soil consists of light grey, fly ash.							DS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
2.45m Very soft, light grey to deep grey, silty clay with sand mixture.							*UDS-1	2.00-2.45
		0	0	0		0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	0	1		1	SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
7.00m Very soft, steel grey, silty clay.						1	SPT-4	7.00-7.45
		0	1	0			UDS-4	8.00-8.45
9.00m Medium dense, steel grey, silty coarse sand with clay binder.						10	SPT-5	9.00-9.45
		3	4	6			UDS-5	10.00-10.45
11.50m Medium dense, light brownish grey to greenish grey, silty sand with clay binder.						12	DS-2	11.00
		4	6	6			SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
		4	5	9		14	DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.00m Hard, light brownish grey, silty clay. Obs. light grey patches.						44	DS-6	17.00
		12	20	24			SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.12
20.00m Very dense, light brownish grey, silty coarse sand. Obs. kankars.						64	DS-8	20.00
21.00m		18	30	34			SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

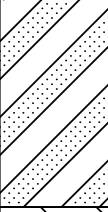
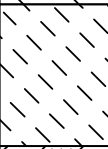
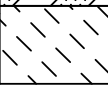
Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.87

Co-ordinates E=(-)2940.00
N=3694.000

Field Test	Nos	Samples	Nos	Commencement Date : 07/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.977 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.35 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Very dense, light bronwish grey, silty coarse sand. Obs. kankars.		21	32	44	76			DS-9	21.50
								SPT-10	22.00-22.45
					69			DS-10	23.00
		20	30	39	74			SPT-11	23.50-23.95
								DS-11	24.50
25.00m Hard, brownish grey, silty clay.		19	32	42	66			SPT-12	25.00-25.45
								DS-12	26.00
		18	29	37	>100			SPT-13	26.50-26.95
								DS-13	27.50
27.50m Hard, brownish grey, silty clay with sand mixture. Obs. light grey patches.		33	43	67	70			SPT-14	28.00-28.45
								DS-14	29.00
		15	29	41	71			SPT-15	29.50-29.95
								DS-15	30.50
31.00m Very dense, light grey, silty coarse sand. Obs. clay lamination, kankars.		27	31	40	73			SPT-16	31.00-31.45
								DS-16	32.00
		26	32	41	76			SPT-17	32.50-32.95
								DS-17	33.50
34.00m Hard, yellowish grey, silty clay. Obs. light grey, patches, sand mixture.		24	33	43	78			SPT-18	34.00-34.45
								DS-18	35.00
		26	42	36	66			SPT-19	35.50-35.95
								DS-19	36.50
36.50m Hard, light grey, silty clay. Obs. sand mixture.		22	24	42	60			SPT-20	37.00-37.45
								DS-20	38.00
38.50m Very dense, light grey, silty medium sand.		20	22	38	55			SPT-21	38.50-38.95
								DS-21	39.50
39.50m Hard, brownish grey, silty clay with traces of sand. Obs. grey patches.		19	26	29				SPT-22	40.15-40.60
40.60m									

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.88

Co-ordinates E=(-)2900.000
N=3694.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.757 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.47 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m Filled up soil consists of light grey, fly ash.		0	0	0	0	0	DS-1	0.50
2.45m Very soft, brownish grey, silty clay with sand mixture.		0	0	1	1	1	SPT-1	1.00-1.45
5.00m Very soft, deep grey, silty clay with sand mixture.		0	1	0	1	1	*UDS-1	2.00-2.45
8.00m Light grey, silty clay with high % of sand mixture.		0	1	0	1	1	SPT-2	3.00-3.45
9.00m Medium dense, light grey, silty coarse sand with clay binder.		5	6	8	14	14	*UDS-2	4.00-4.45
10.40m Medium, steel grey, silty clay / clayey silt with fine sand mixture.		0	2	2	4	4	SPT-3	5.00-5.45
13.00m Stiff, brownish grey, silty clay / clayey silt with fine sand mixture.		4	5	7	12	12	*UDS-3	6.00-6.45
20.00m Very dense, brownish grey, silty coarse sand. Obs. steel grey patches.		5	6	7	13	13	SPT-4	7.00-7.45
21.00m		22	27	29	56	56	UDS-4	8.00-8.45
							SPT-5	9.00-9.45
							UDS-5	10.00-10.45
							DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
							DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
							DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
							DS-8	20.00
							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.88

Co-ordinates E=(-)2900.000
N=3694.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.757 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.47 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Very dense, brownish grey, silty coarse sand. Obs. steel grey patches.		22	33	42	75		DS-9 SPT-10	21.50 22.00-22.45
23.50m Very dense, light grey, silty sand. Obs. brownish spot, whitish grey coarse sand.		20	43	55	98		DS-10 SPT-11	23.00 23.50-23.95
25.00m Very dense, brownish grey, silty coarse sand. Obs. kankars.		45	73	50	>100	2.0 cm Pentn.	DS-11 SPT-12	24.50 25.00-25.32
26.50m		16	28	30	58		DS-12 SPT-13	26.00 26.50-26.95
Hard, light brownish grey, silty clay. Obs. yellowish spot.		17	27	30	57		DS-13 SPT-14	27.50 28.00-28.45
		19	26	32	58		DS-14 SPT-15	29.00 29.50-29.95
31.00m Very dense, light brownish grey, silty coarse sand with clay binder. Obs. kankars.		21	23	32	55		DS-15 SPT-16	30.50 31.00-31.45
		20	22	34	56		DS-16 SPT-17	32.00 32.50-32.95
34.00m Hard, light brownish grey, silty clay with sand mixture. Obs. brownish spot.		19	32	48	80		DS-17 SPT-18	33.50 34.00-34.45
		20	30	45	75		DS-18 SPT-19	35.00 35.50-35.95
36.50m Hard, light yellowish grey, silty clay with traces of sand. Obs. whitish grey, coarse sand.		21	33	43	76		DS-19 SPT-20	36.50 37.00-37.45
38.80m Very dense, light brownish grey, silty coarse sand. Obs. clay lamination.		19	29	60	>100	8.0 cm Pentn.	DS-20 SPT-21	38.00 38.50-38.88
40.30m		54	75		>100		DS-21 SPT-22	39.50 40.05-40.30
N.B. - '*' means sample could not be recovered.						10.0 cm Pentn.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.89

Co-ordinates E=(-)2846.000
N=3694.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.386 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.60m								*UDS-1	2.00-2.45
Very soft, light grey, silty clay / clayey silt with sand mixture & yellowish brown patches.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	0				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
7.50m		0	0	1				SPT-4	7.00-7.45
Medium, steel grey / deep grey, silty clay.								UDS-4	8.00-8.45
9.50m		2	3	3				SPT-5	9.00-9.45
Medium dense, steel grey / light grey, silty sand.								UDS-5	10.00-10.45
		4	6	6				DS-2	11.00
								SPT-6	11.50-11.95
13.50m								DS-3	12.50
Medium dense, steel grey / light clayey silt with sand mixture.								UDS-6	13.00-13.45
		7	11	16				DS-4	14.00
								SPT-7	14.50-14.95
15.50m								DS-5	15.50
Hard, light grey / light greenish grey, silty sand.								*UDS-7	16.00-16.45
								DS-6	17.00
17.50m		11	16	26				SPT-8	17.50-17.95
Very dense, yellowish brown, silty sand with clay binder.								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
21.00m		18	30	42				SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.89

Co-ordinates E=(-)2846.000
N=3694.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.386 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Very dense, yellowish brown, silty sand with clay binder.		19	28	37	65		DS-9	21.50
							SPT-10	22.00-22.45
23.00m Hard, steel grey / yellowish brown, silty clay with sand mixture.		16	36	54	90		DS-10	23.00
							SPT-11	23.50-23.95
		22	33	45	78		DS-11	24.50
							SPT-12	25.00-25.45
26.50m		18	28	36	64		DS-12	26.00
							SPT-13	26.50-26.95
		20	26	40	66		DS-13	27.50
							SPT-14	28.00-28.45
Hard, deep grey, silty clay with brownish grey patches & pocket sand layer.		17	32	38	70		DS-14	29.00
							SPT-15	29.50-29.95
		19	27	37	64		DS-15	30.50
							SPT-16	31.00-31.45
32.00m Very dense, brownish grey, clayey silty sand with light grey & steel grey patches.		27	40	57	97		DS-16	32.00
							SPT-17	32.50-32.95
		24	42	51	93		DS-17	33.50
							SPT-18	34.00-34.45
35.00m		10	21	27	48		DS-18	35.00
							SPT-19	35.50-35.95
Hard, brownish grey, silty clay with steel grey patches & sand pocket layer.		14	28	33	61		DS-19	36.50
							SPT-20	37.00-37.45
38.00m Hard, brownish grey, silty clay / clayey silt with sand mixture. Obs. grey patches & reddish spot.		38	47	57	>100		DS-20	38.00
							SPT-21	38.50-38.95
39.50m Hard, deep brownish grey, silty clay / clayey silt. Obs. sand at SPT-22. 40.19m		50	53		>100		DS-21	39.50
							SPT-22	40.00-40.19
N.B. - '*' means sample could not be recovered.		4.0 cm Pentn.						

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.90

Co-ordinates E=(-)2843.000
N=3915.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.14 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.							DS-1/WS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.20m								
Very loose, brownish grey to deep grey, clayey silty sand.		0	0	0		0	SPT-2	3.00-3.45
							UDS-2	4.00-4.45
		0	0	1		1	SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
8.00m								
Brownish grey, silty clay with sand mixture.							SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m								
Loose, steel grey, silty sand with clay binder. Obs. brownish patches.		2	3	4		7	SPT-5	9.00-9.45
							UDS-5	10.00-10.45
							DS-2	11.00
11.50m								
Medium, light grey, silty clay with sand mixture.		2	3	5		8	SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
14.00m								
Very stiff, light grey, silty clay with sand mixture.							DS-4	14.00
		7	12	16		28	SPT-7	14.50-14.95
							DS-5	15.50
17.00m								
Hard, light brownish grey, silty clay with fine sand mixture.							UDS-7	16.00-16.45
							DS-6	17.00
		13	18	23		41	SPT-8	17.50-17.95
20.00m								
Very dense, light brownish grey to whitish grey, silty coarse sand. Obs. clay lamination, kankars.							DS-7	18.50
							UDS-8	19.00-19.45
21.00m								
		19	36	40		76	DS-8	20.00
							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.90

Co-ordinates E=(-)2843.000
N=3915.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.14 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m							DS-9	21.50
Very dense, light brownish grey to whitish grey, silty coarse sand. Obs. clay lamination, kankars.		24	40	55	95		SPT-10	22.00-22.45
					>100		DS-10	23.00
		29	56	54			SPT-11	23.50-23.82
					2.0 cm Pentn.		DS-11	24.50
26.00m		18	28	42	70		SPT-12	25.00-25.45
Hard, brownish grey, silty clay with traces fo kankars.					66		DS-12	26.00
		15	26	40			SPT-13	26.50-26.95
					67		DS-13	27.50
		18	25	42			SPT-14	28.00-28.45
29.50m					>100		DS-14	29.00
Very dense, yellowish grey, silty coarse sand with clay binder.		23	47	57			SPT-15	29.50-29.95
					93		DS-15	30.50
		24	42	51			SPT-16	31.00-31.45
					61		DS-16	32.00
32.50m		18	27	34			SPT-17	32.50-32.95
Hard, brownish grey, silty clay with sand mixture.					64		DS-17	33.50
		19	28	36			SPT-18	34.00-34.45
					66		DS-18	35.00
		23	29	37			SPT-19	35.50-35.95
36.50m					89		DS-19	36.50
Very dense, light brownish grey, silty coarse sand with clay binder. Obs. kankars.		25	42	47			SPT-20	37.00-37.45
					94		DS-20	38.00
		26	46	48			SPT-21	38.50-38.95
					>100		DS-21	39.50
40.55m		43	50	58			SPT-22	40.10-40.55

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.91

Co-ordinates E=(-)2795.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.206 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.							DS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.25m								
Very loose, brownish grey, clayey silty sand.		0	0	0		0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	0	1		1	SPT-3	5.00-5.45
7.00m								
Very soft, deep grey, clayey silt with sand mixture.		0	0	1		1	*UDS-3	6.00-6.45
							SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m								
Medium dense, brownish grey / steel grey, silty coarse sand with clay binder.		2	4	5		9	SPT-5	9.00-9.45
							UDS-5	10.00-10.45
							DS-2	11.00
11.50m								
Stiff to very stiff, light grey, silty clay with sand mixture.		6	4	8		12	SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
17.00m								
Hard, brownish grey, silty clay with fine sand mixture.							DS-4	14.00
		7	11	16		27	SPT-7	14.50-14.95
							DS-5	15.50
18.50m								
Brownish grey, silty clay. Obs. grey patches.							UDS-7	16.00-16.45
							DS-6	17.00
		12	18	24		42	SPT-8	17.50-17.95
20.50m								
Very dense, light brownish grey, silty coarse sand. Obs. clay lamination, kankars.							DS-7	18.50
							UDS-8	19.00-19.45
		13	19	37		56	DS-8	20.00
21.00m							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

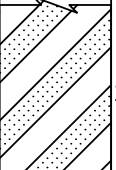
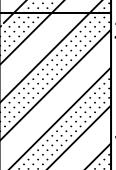
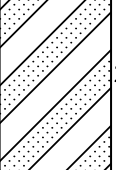
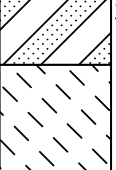
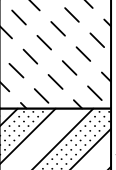
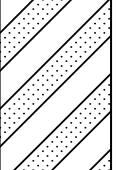
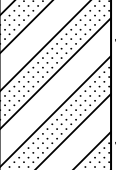
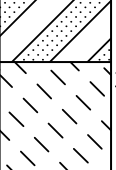
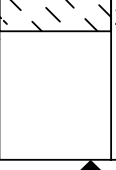
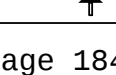
Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.91

Co-ordinates E=(-2795.000
N=3883.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.206 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.00m Very dense, light brownish grey, silty coarse sand. Obs. clay lamination, kankars.		20	37	70	>100	DS-9 SPT-10	21.50 22.00-22.45
23.50m		24	40	68	>100	DS-10 SPT-11	23.00 23.50-23.95
Very dense, yellowish brownish grey, silty coarse sand with clay binder. Obs. kankars.		36	54	55	>100	DS-11 SPT-12	24.50 25.00-25.34
		24	40	49	89	DS-12 SPT-13	26.00 26.50-26.95
29.00m		20	38	45	83	DS-13 SPT-14	27.50 28.00-28.45
Hard, yellowish / brownish grey, silty clay with sand mixture.		17	25	38	63	DS-14 SPT-15	29.00 29.50-29.95
		15	23	36	59	DS-15 SPT-16	30.50 31.00-31.45
32.00m		14	21	31	52	DS-16 SPT-17	32.00 32.50-32.95
Very dense, yellowish brown, silty coarse sand. Obs. clay lamination, kankars.		16	22	33	55	DS-17 SPT-18	33.50 34.00-34.45
		30	42	49	91	DS-18 SPT-19	35.00 35.50-35.95
38.50m		32	54	56	>100	DS-19 SPT-20	36.50 37.00-37.35
		25	41	46	87	DS-20 SPT-21	38.00 38.50-38.95
Hard, light brownish grey, silty clay with traces of sand.		23	42	50	92	DS-21 SPT-22	39.50 40.00-40.45
40.45m							
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.92

Co-ordinates E=(-)2756.000
N=3875.000

Field Test	Nos	Samples	Nos	Commencement Date : 12/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.15 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.							DS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.30m								
Very loose, borwnish grey to deep grey, clayey silty sand. Obs. grey patches.		0	0	0		0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	0	1		1	SPT-3	5.00-5.45
7.00m								
Very soft, steel grey, clayey silt with sand mixture.		0	1	0		1	*UDS-3	6.00-6.45
							SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m								
Medium dense, brownish grey, silty coarse sand with clay binder. Obs. kankars.		5	9	11		20	SPT-5	9.00-9.45
							UDS-5	10.00-10.45
							DS-2	11.00
11.50m								
Stiff, light grey, silty clay with sand mixture.		3	4	5		9	SPT-6	11.50-11.95
							DS-3	12.50
							UDS-6	13.00-13.45
14.50m								
Medium dense, light brownish grey, silty fine sand. Obs. clay lamination.		11	11	12		23	DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
20.50m								
Very dense, light brownish grey, silty coarse sand. Obs. kankars.		7	13	15		28	UDS-7	16.00-16.45
							DS-6	17.00
							SPT-8	17.50-17.95
21.00m								
							DS-7	18.50
							UDS-8	19.00-19.45
							DS-8	20.00
							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.92

Co-ordinates E=(-)2756.000
N=3875.000

Field Test	Nos	Samples	Nos	Commencement Date : 12/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.15 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m							DS-9	21.50
Very dense, light brownish grey, silty coarse sand. Obs. kankars.		18	30	36	66		SPT-10	22.00-22.45
		19	31	37	68		DS-10	23.00
		20	30	39	69		SPT-11	23.50-23.95
		20	30	39	69		DS-11	24.50
26.00m							SPT-12	25.00-25.45
Hard, brownish grey, silty clay. Obs. grey patches.		15	28	34	62		DS-12	26.00
		15	28	34	62		SPT-13	26.50-26.95
28.00m							DS-13	27.50
Hard, reddish brown, silty clay with sand mixture. Obs. grey patches.		22	37	42	79		SPT-14	28.00-28.45
		21	38	42	80		DS-14	29.00
31.00m							SPT-15	29.50-29.95
Hard, yellowish grey, silty clay. Obs. brown spot, sand mixture.		14	21	26	47		DS-15	30.50
		14	21	26	47		SPT-16	31.00-31.45
32.50m							DS-16	32.00
Dense, light grey, silty coarse sand. Obs. clay lamination, kankars.		16	21	28	49		SPT-17	32.50-32.95
		16	21	28	49		DS-17	33.50
34.00m							SPT-18	34.00-34.45
Hard, yellowish brown, silty clay with sand mixture. Obs. grey spot.		18	27	35	62		DS-18	35.00
		18	27	35	62		SPT-19	35.50-35.95
35.50m							DS-19	36.50
Very dense, light brownish grey, silty coarse sand with clay lamination.		18	27	33	60		SPT-20	37.00-37.45
		18	27	33	60		DS-20	38.00
37.00m							SPT-21	38.50-38.95
Hard, reddish brown, silty clay with sand mixture. Obs. grey patches.		24	30	42	72		DS-21	39.50
		24	30	42	72		SPT-22	40.00-40.39
38.50m								
Hard, light brownish grey, silty clay with traces of sand. Obs. brownish spot.		23	29	41	70			
		23	29	41	70			
40.39m								
		45	50	54	>100			
					9.0 cm Pentn.			

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.93

Co-ordinates E=(-)2820.000
N=3849.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.174 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	0			SPT-2	3.00-3.45
Very soft, brownish grey, silty clay / clayey silt with sand.							*UDS-2	4.00-4.45
5.00m		0	0	1			SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
Very soft, deep grey, silty clay with sand mixture.		0	1	1			SPT-4	7.00-7.45
							UDS-4	8.00-8.45
9.00m		5	6	8			SPT-5	9.00-9.45
Medium dense, brownish grey, silty coarse sand with clay binder.							UDS-5	10.00-10.45
11.50m		2	3	4			DS-2	11.00
							SPT-6	11.50-11.95
Medium, light greenish grey, silty clay / clayey silt with sand mixture.							DS-3	12.50
							*UDS-6	13.00-13.45
14.50m		7	13	15			DS-4	14.00
							SPT-7	14.50-14.95
Medium dense, light brownish grey, silty fine sand.							DS-5	15.50
							*UDS-7	16.00-16.45
17.50m		9	14	19			DS-6	17.00
							SPT-8	17.50-17.95
Hard, light brownish grey, silty clay / clayey silt with fine sand mixture.							DS-7	18.50
							UDS-8	19.00-19.45
20.50m		14	25	29			DS-8	20.00
Very dense, brownish grey, silty coarse sand.							SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.93

Co-ordinates E=(-)2820.000
N=3849.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 19/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.174 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m								DS-9	21.50
		16	29	34				SPT-10	22.00-22.45
						63		DS-10	23.00
		17	31	52				SPT-11	23.50-23.95
						83		DS-11	24.50
		16	27	46				SPT-12	25.00-25.45
						73		DS-12	26.00
26.50m		16	23	38				SPT-13	26.50-26.95
						61		DS-13	27.50
		16	24	35				SPT-14	28.00-28.45
						59		DS-14	29.00
29.50m		17	26	37				SPT-15	29.50-29.95
						63		DS-15	30.50
		17	29	38				SPT-16	31.00-31.45
						67		DS-16	32.00
		18	30	36				SPT-17	32.50-32.95
						66		DS-17	33.50
		20	31	38				SPT-18	34.00-34.45
						69		DS-18	35.00
35.50m		23	36	37				SPT-19	35.50-35.95
						73		DS-19	36.50
		20	29	43				SPT-20	37.00-37.45
						72		DS-20	38.00
38.50m		19	31	45				SPT-21	38.50-38.95
						76		DS-21	39.50
		25	35	37				SPT-22	40.00-40.45
						72			
40.45m									

N.B. - '*' means sample could not be recovered.

Created by : Chandrani

Sheet No:

BORE HOLE NO.94

Co-ordinates	E=(-)2780.000 N=3849.000
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Field Test
Penetrometer (SPT)
Cone (Pc)
Vane (V)

Nos	Samples	Nos
22	Undisturbed (UDS)	8
	Penetrometer (SPT)	22
	Disturbed (DS)	21
	Water Sample (WS)	0

Commencement Date : 21/11/14

Completion Date : 23/11/14

Bore Hole Diameter : 150 mm.

Level Of Ground : 9.241 m.

Water Struck At :

Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH	DIVN. = 15cm.						Ref. No	Depth (m)

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.94

Co-ordinates E=(-)2780.000
N=3849.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 23/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.241 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Very dense, light brownish grey, silty sand with clay lamination.		16	23	28	51	SPT-9	20.50-20.95
					51	DS-9	21.50
		14	21	30	78	SPT-10	22.00-22.45
					83	DS-10	23.00
		22	37	41	56	SPT-11	23.50-23.95
Hard, yellowish brownish grey, silty clay with sand mixture.					62	DS-11	24.50
		21	35	48	61	SPT-12	25.00-25.45
					55	DS-12	26.00
		14	26	30	59	SPT-13	26.50-26.95
					58	DS-13	27.50
Very dense, yellowish grey, silty coarse sand. Obs. kankars.		15	28	34	52	SPT-14	28.00-28.45
					79	DS-14	29.00
		16	26	35	70	SPT-15	29.50-29.95
						DS-15	30.50
		25	27	28		SPT-16	31.00-31.45
Hard, yellowish brown / light brownish grey, silty clay. Obs. sand.						DS-16	32.00
		18	27	32		SPT-17	32.50-32.95
						DS-17	33.50
		18	28	30		SPT-18	34.00-34.45
						DS-18	35.00
N.B. - '*' means sample could not be recovered.		18	20	32		SPT-19	35.50-35.95
						DS-19	36.50
		24	37	42		SPT-20	37.00-37.45
						DS-20	38.00
		18	22	30		SPT-21	38.50-38.95
						DS-21	39.50
		33	34	36		SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 25/11/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.95

Co-ordinates E=(-)2736.000
N=3822.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/14
Penetrometer (SPT)	14	Undisturbed (UDS)	9	Completion Date : 18/11/14
Cone (Pc)		Penetrometer (SPT)	14	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 9.265 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	1			1	SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.50m									
		0	0	1			1	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Very soft, deep grey, clayey sandy silt. Obs. micacisist.									
		0	0	1			1	SPT-3	5.00-5.45
								UDS-3	6.00-6.45
7.00m									
		0	3	4			7	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
Medium, light grey to steel grey, clayey silt with high % of sand.									
		2	3	3			6	SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.00m									
								DS-2	11.00
		4	6	12			18	SPT-6	11.50-11.95
Medium dense, steel grey, clayey sand.								DS-3	12.50
								UDS-6	13.00-13.45
								DS-4	14.00
15.25m									
		7	7	8			15	SPT-7	14.50-14.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 25/11/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.95

Co-ordinates E=(-)2736.000
N=3822.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/14
Penetrometer (SPT)	14	Undisturbed (UDS)	9	Completion Date : 18/11/14
Cone (Pc)		Penetrometer (SPT)	14	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 9.265 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
15.25m Medium dense, steel grey, clayey sand.							DS-5	15.50
							UDS-7	16.00-16.45
17.00m Hard, light grey to steel grey, clayey silt with high % of sand.		12	20	25	45		DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m Very dense, light brownish grey, silty medium sand.		12	21	30	51		DS-8	20.00
							SPT-9	20.50-20.95
							DS-9	21.50
		16	32	60	92		SPT-10	22.00-22.45
							DS-10	23.00
		19	40	63	>100		SPT-11	23.50-23.95
							DS-11	24.50
25.00m Hard, light brownish grey, clayey silt.		18	27	34	61		SPT-12	25.00-25.45
							DS-12	26.00
							*UDS-9	26.50-26.65
							DS-13	27.50
		14	22	29	51		SPT-13	28.00-28.45
							DS-14	29.50
N.B. - '*' means sample could not be recovered. 30.45m		18	22	28	50		SPT-14	30.00-30.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 17/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.95R1

Co-ordinates E=(-)2738.473
N=3820.773

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 21/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.265 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	1			1	SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.45m									
		0	1	0			1	SPT-2	3.00-3.45
								UDS-2	4.00-4.45
Very loose, deep grey, clayey sand.									
		0	0	1			1	SPT-3	5.00-5.45
								UDS-3	6.00-6.45
7.00m									
		2	2	4			6	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
Medium, light grey, clayey silt with sand mixture.									
		2	3	3			6	SPT-5	9.00-9.45
								UDS-5	10.00-10.45
11.50m									
		2	3	14			17	DS-2	11.00
								SPT-6	11.50-11.95
Medium dense, steel grey, clayey sand.									
								DS-3	12.50
								UDS-6	13.00-13.45
17.00m									
		6	8	8			16	DS-4	14.00
								SPT-7	14.50-14.95
Hard, steel grey, clayey silt with sand mixture.									
								DS-5	15.50
								UDS-7	16.00-16.45
20.00m									
		11	19	24			43	DS-6	17.00
								SPT-8	17.50-17.95
Very dense, light brownish grey, silty medium sand.									
								DS-7	18.50
								UDS-8	19.00-19.45
21.00m									
		13	20	32			52	DS-8	20.00
								SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 17/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.95R1

Co-ordinates E=(-)2738.473
N=3820.773

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 21/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.265 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Very dense, light brownish grey, silty medium sand.		15	33	61	94		DS-9	21.50
							SPT-10	22.00-22.45
					>100		DS-10	23.00
		20	39	63			SPT-11	23.50-23.95
					60		DS-11	24.50
25.00m Hard, light brownish grey, silty clay.		17	28	32			SPT-12	25.00-25.45
							DS-12	26.00
							*UDS-9	26.50-26.62
					52		DS-13	27.50
		13	21	31			SPT-13	28.00-28.45
					54		DS-14	29.00
		10	22	32			SPT-14	29.50-29.95
					51		DS-15	30.50
31.00m Very dense, yellowish brown, silty coarse sand. Obs. kankars.		16	21	30			SPT-15	31.00-31.45
					62		DS-16	32.00
		17	30	32			SPT-16	32.50-32.95
					41		DS-17	33.50
34.00m Hard, yellowish brownish grey, silty clay.		10	21	20			SPT-17	34.00-34.45
34.60m					>100		DS-18	35.00
		31	43	59			SPT-18	35.50-35.95
					>100		DS-19	36.50
		32	44	60			SPT-19	37.00-37.45
					>100		DS-20	38.00
		30	47	54			SPT-20	38.50-38.85
					5.0 cm Pentn.		DS-21	39.50
39.50m Hard, light grey, silty clay with coarse sand mixture.		13	37	45	82		SPT-21	40.00-40.45
40.45m								

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.96

Co-ordinates E=(-)2795.000
N=3796.000

Field Test	Nos	Samples	Nos	Commencement Date : 23/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.431 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	0			0	SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.45m									
Very loose, deep grey, clayey sand.		0	0	0			0	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1			1	SPT-3	5.00-5.45
8.45m									
Medium, steel grey, clayey silt with high % of sand.		0	0	1			1	*UDS-3	6.00-6.45
								SPT-4	7.00-7.45
								UDS-4	8.00-8.45
14.50m									
Medium dense, light grey, clayey sand. Obs. steel grey patches.		2	3	4			7	SPT-5	9.00-9.45
								UDS-5	10.00-10.45
		3	3	5			8	DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
								DS-4	14.00
		6	6	10			16	SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
								DS-6	17.00
		8	12	16			28	SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.96

Co-ordinates E=(-)2795.000
N=3796.000

Field Test	Nos	Samples	Nos	Commencement Date : 23/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 25/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.431 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		24	38	47	85	SPT-9	20.50-20.95
						DS-9	21.50
		22	36	48	84	SPT-10	22.00-22.45
						DS-10	23.00
		17	21	38	59	SPT-11	23.50-23.95
						DS-11	24.50
Very dense, brownish grey, silty medium sand.		20	26	40	66	SPT-12	25.00-25.45
						DS-12	26.00
26.50m		16	25	31	56	SPT-13	26.50-26.95
						DS-13	27.50
		18	28	35	63	SPT-14	28.00-28.45
						DS-14	29.00
		12	19	26	45	SPT-15	29.50-29.95
						DS-15	30.50
Hard, brownish grey / whitish grey, silty clay. Obs. fine sand mixture.		14	18	23	41	SPT-16	31.00-31.45
						DS-16	32.00
31.00m		16	22	26	48	SPT-17	32.50-32.95
						DS-17	33.50
		22	26	38	64	SPT-18	34.00-34.45
						DS-18	35.00
		25	29	37	66	SPT-19	35.50-35.95
						DS-19	36.50
34.00m		23	36	40	76	SPT-20	37.00-37.45
						DS-20	38.00
		19	27	45	72	SPT-21	38.50-38.80
						DS-21	39.50
		20	59	54	>100	SPT-22	40.10-40.45
37.00m							
39.00m							
40.45m							
Hard, brownish grey, silty clay. Obs. sand mixture.							
N.B. - '*' means sample could not be recovered.							



BH-96/Sheet-2

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 25/11/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.97

Co-ordinates E=(-)2720.000
N=3790.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/14
Penetrometer (SPT)	20	Undisturbed (UDS)	10	Completion Date : 18/11/14
Cone (Pc)		Penetrometer (SPT)	20	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.320 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	1				DS-1	0.50
								WS-1	0.55
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
		0	0	1				SPT-2	3.00-3.45
3.45m								UDS-2	4.00-4.45
Very loose, deep grey, clayey sand.		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		2	4	4				SPT-4	7.00-7.45
7.20m								UDS-4	8.00-8.45
Loose, light grey, clayey sand.		7	8	8				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
								DS-2	11.00
		2	3	4				SPT-6	11.50-11.95
12.50m								DS-3	12.50
Medium dense, steel grey to yellowish grey, silty sand.		7	8	13				UDS-6	13.00-13.45
								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.50m		9	19	24				DS-6	17.00
Dense, brownish grey, silty sand with traces of clay binder.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.20m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

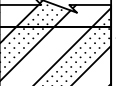
Job No : 3388 Created by : Chandrani Created on : 25/11/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.97

Co-ordinates E=(-)2720.000
N=3790.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/14
Penetrometer (SPT)	20	Undisturbed (UDS)	10	Completion Date : 18/11/14
Cone (Pc)		Penetrometer (SPT)	20	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.320 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Dense, brownish grey, silty sand with traces of clay binder.		14	17	17	34	SPT-9	20.50-20.95
						DS-9	21.50
						*UDS-9	22.00-22.45
						DS-10	23.00
Dense, brownish grey, silty medium sand.		11	19	23	42	SPT-10	23.50-23.95
						DS-11	24.50
		9	21	26	47	SPT-11	25.00-25.45
						DS-12	26.00
		14	30	36	66	SPT-12	26.50-26.95
						DS-13	27.50
Hard, light brownish grey, clayey silt.						*UDS-10	28.00-28.15
						DS-14	29.00
		14	25	29	54	SPT-13	29.50-29.95
						DS-15	30.50
		15	27	38	65	SPT-14	31.00-31.45
						DS-16	32.00
Very dense, brownish grey, silty medium sand.		14	27	43	70	SPT-15	32.50-32.95
						DS-17	33.50
		17	19	26	45	SPT-16	34.00-34.45
						DS-18	35.00
		17	25	31	56	SPT-17	35.50-35.95
						DS-19	36.50
Hard, light brownish grey, clayey silt with kankars & calcareous nodules.		17	19	32	51	SPT-18	37.00-37.45
						DS-20	38.00
		19	21	33	54	SPT-19	38.50-38.95
						DS-21	39.50
N.B. - '*' means sample could not be recovered.		40	76	52	>100	SPT-20	40.00-40.33

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.98

Co-ordinates E=(-2741.000
N=3785.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 20/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.451 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0				SPT-1	1.00-1.45
								UDS-1	2.00-2.45
		0	0	1				SPT-2	3.00-3.45
3.45m								*UDS-2	4.00-4.45
Very loose, deep grey, clayey sand.		0	0	1				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
		0	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		4	7	8				SPT-5	9.00-9.45
Medium dense, steel grey, clayey silty sand.								UDS-5	10.00-10.45
		3	6	7				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
14.50m		7	7	6				UDS-6	13.00-13.45
Medium dense, light brownish grey, silty fine sand.								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
17.50m		6	14	14				*UDS-7	16.00-16.45
Medium dense, steel grey, silty sand with traces of clay binder.								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
20.50m								UDS-8	19.00-19.45
								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.98

Co-ordinates E=(-)2741.000
N=3785.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 20/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.451 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		11	16	21	37	SPT-9	20.50-20.95
						DS-9	21.50
						*UDS-9	22.00-22.45
						DS-10	23.00
Dense to very dense, brownish grey, silty medium sand.		14	21	28	49	SPT-10	23.50-23.95
						DS-11	24.50
		14	26	31	57	SPT-11	25.00-25.45
						DS-12	26.00
26.50m		16	27	30	57	SPT-12	26.50-26.95
						DS-13	27.50
Hard, brownish grey, silty clay.		15	22	24	46	SPT-13	28.00-28.45
						DS-14	29.00
		14	26	31	57	SPT-14	29.50-29.95
						DS-15	30.50
31.00m		14	29	37	66	SPT-15	31.00-31.45
						DS-16	32.00
Very dense, brownish grey to yellowish grey, silty medium to coarse sand. Obs. clay binder & kankars.		14	31	37	68	SPT-16	32.50-32.95
						DS-17	33.50
		16	35	53	88	SPT-17	34.00-34.45
						DS-18	35.00
		16	34	55	89	SPT-18	35.50-35.95
						DS-19	36.50
37.00m		19	25	27	52	SPT-19	37.00-37.45
Hard, light grey, silty clay.						DS-20	38.00
38.50m		20	29	42	71	SPT-20	38.50-38.95
Very dense, brownish grey, silty medium to coarse sand. Obs. kankars & clay binders.						DS-21	39.50
40.30m		40	62		>100	SPT-21	40.05-40.30
N.B. - '*' means sample could not be recovered.					10.0 cm Penth.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.99

Co-ordinates E=(-)2822.000
N=3758.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.124 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
Very soft, brownish grey, silty clay / clayey silt with sand mixture..								*UDS-2	4.00-4.45
5.00m		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
Very soft, deep grey, silty clay.		0	1	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		2	4	5				SPT-5	9.00-9.45
Loose, brownish grey, coarse silty sand with clay binder.								UDS-5	10.00-10.45
11.50m		3	5	6				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
Medium dense, light brownish grey, silty fine sand with clay lamination.		7	8	17				UDS-6	13.00-13.45
								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.50m		17	28	33				DS-6	17.00
Very dense, light grey, silty sand. Obs. brown spot, clay binder.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m								DS-8	20.00
Very dense, light brownish grey, silty medium sand.		18	22	34				SPT-9	20.50-20.95
21.00m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.99

Co-ordinates E=(-)2822.000
N=3758.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 17/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.124 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.55 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Very dense, light brownish grey, silty medium sand.		19	29	37	66			DS-9	21.50
								SPT-10	22.00-22.45
		25	38	42	80			DS-10	23.00
								SPT-11	23.50-23.95
24.50m Hard, light grey, silty clay. Obs. brown patches, sand mixture.		18	27	33	60			DS-11	24.50
								SPT-12	25.00-25.45
		20	28	35	63			DS-12	26.00
								SPT-13	26.50-26.95
28.00m Hard, brownish grey, silty clay with traces of sand mixture. Obs. yellow spot.		19	26	35	61			DS-13	27.50
								SPT-14	28.00-28.45
		12	24	36	60			DS-14	29.00
								SPT-15	29.50-29.95
30.50m Very dense, light grey, silty coarse sand. Obs. kankar, clay lamination.		18	30	37	67			DS-15	30.50
								SPT-16	31.00-31.45
		20	32	39	71			DS-16	32.00
								SPT-17	32.50-32.95
34.00m		18	27	39	66			DS-17	33.50
								SPT-18	34.00-34.45
		18	29	41	70			DS-18	35.00
								SPT-19	35.50-35.95
Very dense, light brownish grey, silty sand with clay binder. Obs. red brownish sopt at 38.50m).		20	31	37	68			DS-19	36.50
								SPT-20	37.00-37.45
		22	29	36	65			DS-20	38.00
								SPT-21	38.50-38.95
								DS-21	39.50
40.45m		23	30	38	68			SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 25/11/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.100

Co-ordinates E=(-)2775.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/14
Penetrometer (SPT)	14	Undisturbed (UDS)	9	Completion Date : 18/11/14
Cone (Pc)		Penetrometer (SPT)	14	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 9.234 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.							DS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.45m								
		0	0	1		1	SPT-2	3.00-3.45
							UDS-2	4.00-4.45
5.45m								
		0	0	1		1	SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
Loose, light grey to deep grey, clayey sand.								
		2	2	3		5	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
11.00m								
		2	3	2		5	SPT-5	9.00-9.45
							UDS-5	10.00-10.45
Stiff to very stiff, light grey to deep grey, clayey silt with high % of sand.								
							DS-2	11.00
		7	8	10		18	SPT-6	11.50-11.95
15.25m								
							DS-3	12.50
							*UDS-6	13.00-13.45
							DS-4	14.00
		7	7	7		14	SPT-7	14.50-14.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 25/11/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.100

Co-ordinates E=(-)2775.000
N=3760.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/11/14
Penetrometer (SPT)	14	Undisturbed (UDS)	9	Completion Date : 18/11/14
Cone (Pc)		Penetrometer (SPT)	14	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	14	Level Of Ground : 9.234 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
15.25m Stiff to very stiff, light grey to deep grey, clayey silt with high % of sand.						DS-5	15.50
						UDS-7	16.00-16.45
17.00m Hard, light grey to deep grey, clayey silt with high % of sand.		8	19	24	43	DS-6	17.00
						SPT-8	17.50-17.95
						DS-7	18.50
						UDS-8	19.00-19.45
20.00m Very dense, light brownish grey, silty sand. Obs. kankars & gravels.		17	25	34	59	DS-8	20.00
						SPT-9	20.50-20.95
						DS-9	21.50
		16	24	29	53	SPT-10	22.00-22.45
						DS-10	23.00
		18	30	36	66	SPT-11	23.50-23.95
						DS-11	24.50
25.00m Hard, light brownish grey, clayey silt. Obs. calcareous nodules.		13	23	32	55	SPT-12	25.00-25.45
						DS-12	26.00
						*UDS-9	26.50-26.65
						DS-13	27.50
		18	24	30	54	SPT-13	28.00-28.45
						DS-14	29.50
N.B. - '*' means sample could not be recovered.		17	22	29	51	SPT-14	30.00-30.45
30.45m							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 17/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.100R1

Co-ordinates E=(-2775.642
N=3758.627

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 20/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.234 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey fly ash.							DS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.45m								
Very soft, light grey to grey, clayey silt with high % of sand.		0	0	1		1	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	0	1		1	SPT-3	5.00-5.45
6.50m								
Very loose to loose, light grey, clayey sand.		2	2	2		4	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
		2	2	3		5	SPT-5	9.00-9.45
							UDS-5	10.00-10.45
		1	2	4		6	DS-2	11.00
							SPT-6	11.50-11.95
12.50m								
Medium dense, steel grey, silty sand with traces of clay binder.							DS-3	12.50
		7	10	13		23	UDS-6	13.00-13.45
							DS-4	14.00
16.00m								
Medium dense, brownish grey, silty sand.							SPT-7	14.50-14.95
							DS-5	15.50
		8	11	15		26	UDS-7	16.00-16.45
18.00m								
Hard, brownish grey, clayey silt with high % of sand.							DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
21.00m								
							UDS-8	19.00-19.45
		14	20	24		44	DS-8	20.00
							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 17/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.100R1

Co-ordinates E=(-)2775.642
N=3758.627

Field Test	Nos	Samples	Nos	Commencement Date : 19/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 20/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.234 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.60 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Dense, brownish grey to yellowish grey, silty medium sand.		12	23	24	47		DS-9	21.50
							SPT-10	22.00-22.45
		11	24	26	50		DS-10	23.00
							SPT-11	23.50-23.95
		10	21	31	52		DS-11	24.50
25.45m Hard, brownish grey, silty clay. Obs. steel grey patches.							SPT-12	25.00-25.45
							DS-12	26.00
							*UDS-9	26.50-26.64
		14	23	29	52		DS-13	27.50
							SPT-13	28.00-28.45
		16	22	31	53		DS-14	29.00
							SPT-14	29.50-29.95
31.00m Dense to very dense, yellowish brown, clayey silty coarse sand. Obs. kankars & gravels.		12	18	24	42		DS-15	30.50
							SPT-15	31.00-31.45
		14	20	31	51		DS-16	32.00
							SPT-16	32.50-32.95
		16	22	32	54		DS-17	33.50
							SPT-17	34.00-34.45
		13	27	37	64		DS-18	35.00
							SPT-18	35.50-35.95
36.50m Hard, brownish grey, silty clay / clayey silt.							DS-19	36.50
		14	17	33	50		SPT-19	37.00-37.45
							DS-20	38.00
38.50m Very dense, light grey, silty coarse sand. Obs. kankars.		23	43	53	96		SPT-20	38.50-38.95
							DS-21	39.50
40.38m N.B. - '*' means sample could not be recovered.		39	50	53	>100		SPT-21	40.05-40.38

3.0 cm Pentn.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.101

Co-ordinates E=(-)2820.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 23/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.224 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of fly ash.								DS-1	0.50
		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m									
Very soft, steel grey to brownish grey, clayey silt with high% of sand.		0	0	1				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
8.00m									
Medium, steel grey to brownish grey, clayey silt with high % of sand.		0	2	3				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
								SPT-5	9.00-9.45
11.00m									
Medium, steel grey, clayey sandy silt.								UDS-5	10.00-10.45
		1	2	5				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
14.50m								*UDS-6	13.00-13.45
Stiff to very stiff, steel grey, clayey silt with fine sand mixture.		6	6	6				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
		8	12	15				SPT-8	17.50-17.95
20.50m								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.101

Co-ordinates E=(-)2820.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 23/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.224 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		13	19	24	43	SPT-9	20.50-20.95
Dense to very dense, light brownish grey, silty sand with clay lamination.						DS-9	21.50
						*UDS-9	22.00-22.15
						DS-10	23.00
		14	23	41	64	SPT-10	23.50-23.95
24.50m						DS-11	24.50
Hard, yellowish to brownish grey, silty clay with sand mixture.		12	22	30	52	SPT-11	25.00-25.45
						DS-12	26.00
		13	25	36	61	SPT-12	26.50-26.95
						DS-13	27.50
30.50m		15	23	32	55	SPT-13	28.00-28.45
Dense, yellowish brown, clayey silty sand.						DS-14	29.00
		12	22	27	49	SPT-14	29.50-29.95
32.00m						DS-15	30.50
Very dense, yellowish brown, silty sand with clay. Obs. kankars.		14	18	28	46	SPT-15	31.00-31.45
						DS-16	32.00
		17	21	33	54	SPT-16	32.50-32.95
						DS-17	33.50
35.00m		14	29	35	64	SPT-17	34.00-34.45
Hard, brownish grey, silty clay with sand lamination.						DS-18	35.00
		23	31	37	68	SPT-18	35.50-35.95
37.00m						DS-19	36.50
Very dense, yellowish to whitsh grey, silty coarse sand. Obs. kankars.		30	42	60	>100	SPT-19	37.00-37.45
						DS-20	38.00
39.50m		32	40	64	>100	SPT-20	38.50-38.95
Hard, brownish grey, silty clay.						DS-21	39.50
		27	34	48	82	SPT-21	40.10-40.55
40.55m							

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.102

Co-ordinates E=(-)2780.000
N=3726.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 22/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.370 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.70 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.05m		0	0	1				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	0	1				SPT-4	7.00-7.45
								*UDS-4	8.00-8.45
8.45m		2	2	3				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
		4	7	7				DS-2	11.00
11.00m								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
		3	3	4				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
		7	14	16				DS-6	17.00
17.00m								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.00m								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.102

Co-ordinates E=(-)2780.000
N=3720.000

Field Test	Nos	Samples	Nos	Commencement Date : 21/11/14
Penetrometer (SPT)	21	Undisturbed (UDS)	9	Completion Date : 22/11/14
Cone (Pc)		Penetrometer (SPT)	21	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.370 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.70 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm.			Ref. No	Depth (m)
20.50m Very dense, brownish grey, medium sand.		14	27	41	SPT-9	20.50-20.95
				68	DS-9	21.50
		16	25	31	SPT-10	22.00-22.45
				56	DS-10	23.00
23.00m Very dense, light brownish grey, silty coarse sand with clay lamination.		16	27	27	SPT-11	23.50-23.95
				54	DS-11	24.50
		25	36	43	SPT-12	25.00-25.45
				79	DS-12	26.00
26.00m Hard, light brownish grey, silty clay. Obs. brownish spot.		12	32	37	SPT-13	26.50-26.95
				69	DS-13	27.50
		9	23	23	SPT-14	28.00-28.45
				46	DS-14	29.00
					*UDS-9	29.50-29.95
30.50m Hard, light brownish grey, silty clay with sand mixture.		11	21	26	DS-15	30.50
				47	SPT-15	31.00-31.45
		13	20	27	DS-16	32.00
				47	SPT-16	32.50-32.95
					DS-17	33.50
34.00m Very dense, yellowish brown, silty coarse sand with clay lamination.		14	36	41	SPT-17	34.00-34.45
				77	DS-18	35.00
35.50m Hard, yellowish to brownish grey, silty clay with sand lamination.		11	17	22	SPT-18	35.50-35.95
				39	DS-19	36.50
37.00m Very dense, yellowish brown, silty coarse sand with clay lamination.		39	64	52	SPT-19	37.00-37.32
				2.0 cm Pentn.	DS-20	38.00
		15	32	40	SPT-20	38.50-38.95
				72	DS-21	39.50
39.50m Hard, light grey, silty clay. Obs. brownish spot.		25	47	52	SPT-21	40.00-40.33
				3.0 cm Pentn.		
40.33m N.B. - '*' means sample could not be recovered.						

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.103

Co-ordinates E=(-)2756.000
N=3699.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.524 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.95 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0	0	0	0	DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
2.70m		0	0	0	0	0	0	SPT-2	3.00-3.45
Very loose, light grey, clayey silty sand with yellowish brown patches.								*UDS-2	4.00-4.45
5.00m		0	0	0			0	SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
Very soft, deep grey, silty clay with high % of sand mixture.		0	1	1			2	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		3	3	4			7	SPT-5	9.00-9.45
								UDS-5	10.00-10.45
Loose, light grey, silty sand.		3	4	4			8	DS-2	11.00
								SPT-6	11.50-11.95
12.50m								DS-3	12.50
								UDS-6	13.00-13.45
Medium dense, light greenish grey, silty sand / sandy silt.		7	11	17			28	DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.00m								DS-6	17.00
		11	17	27			44	SPT-8	17.50-17.95
								DS-7	18.50
Dense to very dense, light brownish yellow, silty sand with clay binder.								UDS-8	19.00-19.45
								DS-8	20.00
21.00m		15	24	38			62	SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388

Created by : Chandrani

Created on : 05/01/2015

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.103

Co-ordinates E=(-)2756.000
N=3699.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.524 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.95 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Very dense, light brownish yellow, silty sand with clay binder.		17	20	39	59			DS-9	21.50
								SPT-10	22.00-22.45
23.50m		19	22	40	62			DS-10	23.00
								SPT-11	23.50-23.95
Very dense, brownish yellow sand with steel grey patches.		18	28	36	64			DS-11	24.50
								SPT-12	25.00-25.45
		24	39	42	81			DS-12	26.00
								SPT-13	26.50-26.95
		21	29	39	68			DS-13	27.50
28.50m		20	38	45	83			SPT-14	28.00-28.45
								DS-14	29.00
Hard, light brownish grey, silty clay with laminated sand & steel grey patches.		29	35	41	76			SPT-15	29.50-29.95
								DS-15	30.50
		24	39	56	95			SPT-16	31.00-31.45
32.00m		27	40	48	88			DS-16	32.00
								SPT-17	32.50-32.95
Very dense, yellowish brown, silty sand with laminated clay binders.		22	35	51	86			DS-17	33.50
								SPT-18	34.00-34.45
		28	34	48	82			DS-18	35.00
								SPT-19	35.50-35.95
		16	36	42	78			DS-19	36.50
38.50m		20	33	53	86			SPT-20	37.00-37.45
								DS-20	38.00
Hard, deep grey, silty clay with high % of sand mixture.								SPT-21	38.50-38.95
								DS-21	39.50
40.65m								SPT-22	40.20-40.65
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.104

Co-ordinates E=(-)2800.000
N=3660.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.174 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.25 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								DS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m								SPT-2	3.00-3.45
Very soft, light grey, silty clay.		0	0	0				*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
5.00m								*UDS-3	6.00-6.45
Very soft, deep grey, silty clay with sand mixture.		0	1	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m		4	5	5				SPT-5	9.00-9.45
Stiff, brownish grey, clayey silt with high % of sand.								UDS-5	10.00-10.45
								DS-2	11.00
11.50m		5	7	9				SPT-6	11.50-11.95
Very stiff, yellowish grey, silty clay with sand mixture.								DS-3	12.50
								UDS-6	13.00-13.45
14.50m		3	5	7				DS-4	14.00
Medium dense, light grey, silty fine sand. Obs. clay lamination.								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
17.50m		9	15	16				DS-6	17.00
Hard, light brownish grey, silty clay with sand mixture.								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.104

Co-ordinates E=(-)2800.000
N=3660.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.174 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.25 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Dense, brownish grey, silty sand.		16	21	26	47	SPT-9	20.50-20.95
						DS-9	21.50
		21	26	32	58	SPT-10	22.00-22.45
						DS-10	23.00
23.50m Dense, brownish grey to whitish grey, silty sand with clay laminated.		15	19	22	41	SPT-11	23.50-23.95
						DS-11	24.50
25.50m		14	18	26	44	SPT-12	25.00-25.45
						DS-12	26.00
		20	27	31	58	SPT-13	26.50-26.95
						DS-13	27.50
Hard, brownish grey, silty clay with sand mixture.		19	25	30	55	SPT-14	28.00-28.45
						DS-14	29.00
		17	27	33	60	SPT-15	29.50-29.95
						DS-15	30.50
31.00m Very dense, brownish grey, clayey sand.		22	29	34	63	SPT-16	31.00-31.45
						DS-16	32.00
		20	30	36	66	SPT-17	32.50-32.95
						DS-17	33.50
34.00m		22	29	37	66	SPT-18	34.00-34.45
						DS-18	35.00
Very dense, brownish grey, silty sand with clay laminated.		20	33	34	67	SPT-19	35.50-35.95
						DS-19	36.50
37.00m		23	25	38	63	SPT-20	37.00-37.45
						DS-20	38.00
Hard, brownish grey, silty clay.		20	28	42	70	SPT-21	38.50-38.95
						DS-21	39.50
40.25m N.B. - '*' means sample could not be recovered.		40	64		>100	SPT-22	40.00-40.25
					10.0 cm Penth.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.105

Co-ordinates E=(-)2588.000
N=3309.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.701 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.50m								*UDS-1	2.00-2.45
Soft, brownish grey, silty clay with kankars.		0	1	1				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	2	2				SPT-3	5.00-5.45
6.00m								*UDS-3	6.00-6.45
Loose, deep grey, clayey silty sand.		0	2	3				SPT-4	7.00-7.45
8.00m								UDS-4	8.00-8.45
		3	4	7				SPT-5	9.00-9.45
Medium dense, light greenish grey, silty fine sand.								UDS-5	10.00-10.45
		5	7	9				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								UDS-6	13.00-13.45
14.00m		12	16	19				DS-4	14.00
Dense, light greenish grey, silty fine sand.								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
17.00m								DS-6	17.00
Hard, light greenish grey, silty clay. Obs. sand mixture.		13	16	23				SPT-8	17.50-17.95
								DS-7	18.50
								*UDS-8	19.00-19.45
								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

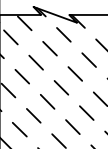
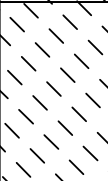
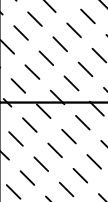
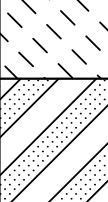
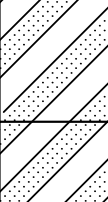
Job No : 3388 Created by : Chandrani Created on : 29/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.105

Co-ordinates E=(-)2588.000
N=3309.000

Field Test	Nos	Samples	Nos	Commencement Date : 19/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 21/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.701 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Hard, light greenish grey, silty clay. Obs. sand mixture.		12	23	24	47	SPT-9	20.50-20.95
						DS-9	21.50
22.50m		17	25	28	53	SPT-10	22.00-22.45
						DS-10	23.00
Hard, yellowish grey, silty clay with sand mixture. Obs. steel grey patches.		17	27	32	59	SPT-11	23.50-23.95
						DS-11	24.50
26.50m		22	34	29	63	SPT-12	25.00-25.45
						DS-12	26.00
28.50m		14	17	29	46	SPT-13	26.50-26.95
						DS-13	27.50
Hard, deep yellowish brown, silty clay. Obs. reddish spot & steel grey patches.		19	18	28	46	SPT-14	28.00-28.45
						DS-14	29.00
32.00m		22	24	30	54	SPT-15	29.50-29.95
						DS-15	30.50
Very dense, deep brownish yellow, silty sand. Obs. steel grey patches & silty clay pocket.		19	21	27	48	SPT-16	31.00-31.45
						DS-16	32.00
34.00m		19	23	30	53	SPT-17	32.50-32.95
						DS-17	33.50
35.50m		24	29	35	64	SPT-18	34.00-34.45
						DS-18	35.00
Dense, deep yellow / steel grey, silty sand.		12	18	25	43	SPT-19	35.50-35.95
						DS-19	36.50
38.50m		19	21	28	49	SPT-20	37.00-37.45
						DS-20	38.00
Very dense, yellowish grey, silty fine sand.		29	35	43	78	SPT-21	38.50-38.95
						DS-21	39.50
40.50m		36	37	49	86	SPT-22	40.05-40.50
N.B. - '*' means sample could not be recovered.							

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 31/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.106

Co-ordinates E=(-)2627.000
N=3956.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 18/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.96 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m								
Very loose, greyish brown, silty clayey sand. Obs. red spots.		0	0	0			SPT-2	3.00-3.45
							UDS-2	4.00-4.45
		0	1	0			SPT-3	5.00-5.45
							UDS-3	6.00-6.45
7.00m		1	1	1			SPT-4	7.00-7.45
Very soft, light grey, silty sandy clay.							UDS-4	8.00-8.45
		1	0	1			SPT-5	9.00-9.45
							UDS-5	10.00-10.45
		1	1	2			DS-2	11.00
							SPT-6	11.50-11.95
							DS-3	12.50
13.45m							UDS-6	13.00-13.45
Medium dense, light greenish grey, silty sand with clay mixture. Obs. brown patches.		1	4	7			DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
17.00m							DS-6	17.00
Dense, light greenish grey, silty sand with clay mixture. Obs. brown patches.		9	19	25			SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.45
							DS-8	20.00
20.50m								
Dense to very dense, greyish yellow, silty coarse sand.		16	22	27			SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 31/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.106

Co-ordinates E=(-)2627.000
N=3956.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 18/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.96 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m Dense to very dense, greyish yellow, silty coarse sand.		18	23	29	52			DS-9	21.50
								SPT-10	22.00-22.45
		13	25	30	55			DS-10	23.00
								SPT-11	23.50-23.95
		20	40	37	77			DS-11	24.50
								SPT-12	25.00-25.45
26.50m Very dense, whitish grey, silty coarse sand.		17	26	35	61			DS-12	26.00
								SPT-13	26.50-26.95
		20	31	39	70			DS-13	27.50
								SPT-14	28.00-28.45
29.00m Hard, greyish brown, silty clay. Obs. red spots.		16	22	29	51			DS-14	29.00
								SPT-15	29.50-29.95
		19	25	27	52			DS-15	30.50
								SPT-16	31.00-31.45
32.00m Hard, greenish brown, silty clay with sand mixture.		20	22	28	50			DS-16	32.00
								SPT-17	32.50-32.95
		17	29	35	64			DS-17	33.50
								SPT-18	34.00-34.45
35.50m Hard, brownish grey, silty clay with sand mixture.		25	41	48	89			DS-18	35.00
								SPT-19	35.50-35.95
		19	29	35	64			DS-19	36.50
								SPT-20	37.00-37.45
		22	37	40	77			DS-20	38.00
								SPT-21	38.50-38.95
39.00m Very dense, light greyish yellow, silty sand.		19	38	45	83			DS-21	39.50
40.45m								SPT-22	40.00-40.45
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.107

Co-ordinates E=(-)2653.000
N=3890.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 11/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.118 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0	0		DS-1	0.50
							SPT-1	1.00-1.45
2.45m							*UDS-1	2.00-2.45
Very soft, deep grey, clayey silt / silty clay with sand mixture.		0	0	0	0		SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	1	0	1		SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
7.00m		0	1	1	2		SPT-4	7.00-7.45
Very soft, steel grey, silty clay with sand mixture.							*UDS-4	8.00-8.45
9.00m		3	5	7	12		SPT-5	9.00-9.45
Stiff, light grey, silty clay with sand mixture.							UDS-5	10.00-10.45
11.50m		5	8	11	19		DS-2	11.00
Very stiff, light grey, silty clay. Obs. steel grey patches.							SPT-6	11.50-11.95
							DS-3	12.50
13.00m		9	13	19	32		UDS-6	13.00-13.45
Dense, greenish grey, silty fine sand. Obs. clay lamination, grey patches, traces of kankars.							DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
17.50m		22	29	31	60		UDS-7	16.00-16.45
Hard, light brownish grey, silty clay / clayey silt with coarse sand mixture. Obs. kankars, light grey patches.							DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							*UDS-8	19.00-19.12
20.50m		21	29	30	59		DS-8	20.00
Very dense, light bronwish grey, silty sand. Obs. kankars.							SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 12/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.107

Co-ordinates E=(-)2653.000
N=3890.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 11/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.118 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
21.00m Very dense, light bronwish grey, silty sand. Obs. kankars.		20	27	36	63		DS-9	21.50
							SPT-10	22.00-22.45
		24	30	36	66		DS-10	23.00
							SPT-11	23.50-23.95
24.50m Hard, light brownish grey, silty clay / clayey silt with brownish patches, yellowish spot.		22	30	35	65		DS-11	24.50
							SPT-12	25.00-25.45
		24	32	39	71		DS-12	26.00
							SPT-13	26.50-26.95
28.00m Hard, brownish grey, silty clay / clayey silt with sand mixture.		20	33	43	76		DS-13	27.50
							SPT-14	28.00-28.45
		17	27	34	61		DS-14	29.00
							SPT-15	29.50-29.95
31.00m Very dense, brownish grey, silty sand.		22	29	34	63		DS-15	30.50
							SPT-16	31.00-31.45
		24	32	35	67		DS-16	32.00
							SPT-17	32.50-32.95
34.00m Very dense, brownish grey, silty sand with clay lamination.		25	32	43	75		DS-17	33.50
							SPT-18	34.00-34.45
		27	35	43	78		DS-18	35.00
							SPT-19	35.50-35.95
37.00m Very dense, brownish grey, silty sand.		30	41	47	88		DS-19	36.50
							SPT-20	37.00-37.45
		27	42	45	87		DS-20	38.00
							SPT-21	38.50-38.95
40.24m		40	50		>100		DS-21	39.50
							SPT-22	40.00-40.24
N.B. - '*' means sample could not be recovered.		9.0 cm Pentn.						

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.108

Co-ordinates E=(-)3173.000
N=3655.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.139 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.							DS-1	0.50
		0	0	0		0	SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m								
Very soft, deep grey, silty clay with sand mixture.		0	0	0		0	SPT-2	3.00-3.45
							*UDS-2	4.00-4.45
		0	0	1		1	SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
		0	1	1		2	SPT-4	7.00-7.45
							UDS-4	8.00-8.45
7.45m								
Soft to medium, light grey, silty clay with sand mixture.		1	2	2		4	SPT-5	9.00-9.45
							*UDS-5	10.00-10.45
		2	5	6		11	DS-2	11.00
							SPT-6	11.50-11.95
11.00m								
Stiff, light grey, silty clay / clayey silt with sand mixture.							DS-3	12.50
							*UDS-6	13.00-13.45
13.00m								
Medium dense, brownish grey, silty sand with traces of clay binder.		9	14	15		29	DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							UDS-7	16.00-16.45
17.00m								
Hard, light greenish grey, silty clay.		10	14	18		32	DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.50m								
Very dense, brownish grey, grey, silty coarse sand. Obs. reddish spots.		15	26	30		56	DS-8	20.00
							SPT-9	20.50-20.95
21.00m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.108

Co-ordinates E=(-3173.000
N=3655.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 15/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.139 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.00m								DS-9	21.50
		20	34	38				SPT-10	22.00-22.45
							72	DS-10	23.00
Very dense, brownish grey, grey, silty coarse sand. Obs. reddish spots.		22	35	41				SPT-11	23.50-23.95
							76	DS-11	24.50
		22	32	45				SPT-12	25.00-25.45
							77	DS-12	26.00
26.00m								SPT-13	26.50-26.95
		7	15	21				DS-13	27.50
							36	SPT-14	28.00-28.45
Hard, brownish grey, silty clay / clayey silt with sand mixture.		24	29	36				DS-14	29.00
							65	SPT-15	29.50-29.95
		21	27	34				DS-15	30.50
30.00m								SPT-16	31.00-31.45
		34	36	44				DS-16	32.00
							80	SPT-17	32.50-32.95
		30	39	42				DS-17	33.50
Very dense, light grey, silty sand with laminated clay binders.		28	33	39				SPT-18	34.00-34.45
							72	DS-18	35.00
		36	39	45				SPT-19	35.50-35.95
							84	DS-19	36.50
		24	30	47				SPT-20	37.00-37.45
							77	DS-20	38.00
38.00m								SPT-21	38.50-38.95
Very dense, brownish grey, silty sand with laminated steel grey clay binder.		19	32	49				DS-21	39.50
							81	SPT-22	40.00-40.45
39.50m									
Hard, brownish grey, silty clay / clayey silt with brownish grey, sand in SPT-22.		24	48	45					
40.45m									
							93		
N.B. - '*' means sample could not be recovered.									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 02/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.109

Co-ordinates E=(-)3202.000
N=3188.000

Field Test	Nos	Samples	Nos	Commencement Date : 11/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 12/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.775 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m									
Very soft, brownish grey to dark grey, silty clay / clayey silt.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
								UDS-3	6.00-6.45
		0	1	2				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
9.00m									
Very loose, light greenish grey, fine silty sand. Obs. gravels pieces.		3	2	2				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
								DS-2	11.00
11.50m									
Loose, light yellowish grey to greenish grey, silty fine sand.		4	3	3				SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
		2	3	5				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
17.50m									
Medium dense, light yellowish grey to greenish grey, silty fine sand.		5	9	13				*UDS-7	16.00-16.45
								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
20.50m									
Dense, light yellow, silty coarse sand.								UDS-8	19.00-19.45
		8	17	19				DS-8	20.00
21.50m								SPT-9	20.50-20.95
								DS-9	21.50

Sheet No:

BORE HOLE NO.109

Co-ordinates	E=(-)3202.000 N=3188.000
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Commencement Date : 11/01/15
Completion Date : 12/01/15
Bore Hole Diameter : 150 mm.
Level Of Ground : 8.775 m.
Water Struck At :
Standing Water Level : 0.45 m

DESCRIPTION	SYMBOL	N-VALUE				Ref. No	SAMPLES
		EACH DIVN. = 15cm.					
	21.50m				24		
Dense, light yellow, silty coarse sand.		8	10	14		SPT-10	22.00-22.45
						DS-10	23.00
		11	18	20	38	SPT-11	23.50-23.95
						DS-11	24.50
		10	14	19	33	SPT-12	25.00-25.45
						DS-12	26.00
		13	21	23	44	SPT-13	26.50-26.95
						DS-13	27.50
	28.00m	12	20	25	45	SPT-14	28.00-28.45
Hard, light grey, silty clay.						DS-14	29.00
		8	20	21	41	SPT-15	29.50-29.95
						DS-15	30.50
		10	21	23	44	SPT-16	31.00-31.45
	32.00m					DS-16	32.00
Hard, greyish brown, silty clay with sand mixture.		11	18	22	40	SPT-17	32.50-32.95
						DS-17	33.50
	33.50m				54	SPT-18	34.00-34.45
Very dense, whitish grey to greyish yellow, coarse sand. Obs. broken gravels pieces & black spots.		15	25	29		DS-18	35.00
		30	54	59	>100	SPT-19	35.50-35.95
						DS-19	36.50
		32	54	59	>100	SPT-20	37.00-37.45
						DS-20	38.00
		38	51	64	>100	SPT-21	38.50-38.90
						DS-21	39.50
		34	42	48	90	SPT-22	40.00-40.45
	40.45m						
N.B. - '*' means sample could not be recovered.							

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 02/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.110

Co-ordinates E=(-)3202.000
N=3253.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 10/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.035 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
Very soft, light brownish grey, silty clay / clayey silt.								*UDS-2	4.00-4.45
5.00m		0	0	1				SPT-3	5.00-5.45
Very soft blackish grey, silty clay.								UDS-3	6.00-6.45
7.45m		0	1	1				SPT-4	7.00-7.45
Medium, brownish grey, silty clay / clayey silt with sand mixture.		2	3	3				UDS-4	8.00-8.45
								SPT-5	9.00-9.45
10.00m		2	4	6				UDS-5	10.00-10.45
Loose, light greenish grey to yellowish grey, silty sand.								DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
14.00m		4	7	11				*UDS-6	13.00-13.45
Medium dense, light greenish grey to yellowish grey, silty sand.								DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
17.50m		5	11	13				*UDS-7	16.00-16.45
Medium dense, light yellow, silty sand with traces of clay binder.								DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
20.50m		5	10	15				UDS-8	19.00-19.45
Medium dense, light greyish yellow, silty sand.								DS-8	20.00
								SPT-9	20.50-20.95
21.50m								DS-9	21.50

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 02/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.110

Co-ordinates E=(-)3202.000
N=3253.000

Field Test	Nos	Samples	Nos	Commencement Date : 08/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 10/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.035 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
21.50m Medium dense, light greyish yellow, silty sand.		8	9	16	25			SPT-10	22.00-22.45
23.00m		12	19	23	42			DS-10	23.00
Dense to very dense, light greyish yellow, silty sand.		14	25	29	54			SPT-11	23.50-23.95
26.50m		13	22	28	50			DS-11	24.50
Dense to very dense, light greyish yellow, silty sand with clay binders.		16	19	25	44			SPT-12	25.00-25.45
29.50m		18	29	26	55			DS-12	26.00
Hard, dark grey, silty clay.		10	16	20	36			SPT-13	26.50-26.95
32.50m		11	19	25	44			DS-13	27.50
Hard, greyish brown, sandy clay. Obs. steel grey patches.		17	36	49	85			SPT-14	28.00-28.45
35.50m		19	43	59	>100			DS-14	29.00
Very dense, light brownish grey, silty coarse sand with clay binder. Obs. broken gravel patches.		22	30	36	66			SPT-15	29.50-29.95
38.50m		13	22	28	50			DS-15	30.50
Hard, brownish grey, silty sandy clay.		24	34	42	76			SPT-16	31.00-31.45
40.45m								DS-16	32.00
N.B. - '*' means sample could not be recovered.								SPT-17	32.50-32.95
								DS-17	33.50
								SPT-18	34.00-34.45
								DS-18	35.00
								SPT-19	35.50-35.95
								DS-19	36.50
								SPT-20	37.00-37.45
								DS-20	38.00
								SPT-21	38.50-38.95
								DS-21	39.50
								SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.111

Co-ordinates E=(-)3156.000
N=3298.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.143 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m							DS-1	0.50
Filled up soil consists of light grey, fly ash.		0	0	0			SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m							SPT-2	3.00-3.45
Very soft, brownish grey, silty clay.							*UDS-2	4.00-4.45
5.00m							SPT-3	5.00-5.45
							UDS-3	6.00-6.45
							SPT-4	7.00-7.45
Very soft to soft, blackish grey, silty clay / clayey silt.							UDS-4	8.00-8.45
							SPT-5	9.00-9.45
							*UDS-5	10.00-10.45
11.00m							DS-2	11.00
Stiff, light greenish grey, silty clay with sand mixture.							SPT-6	11.50-11.95
							DS-3	12.50
13.00m							UDS-6	13.00-13.45
Medium dense, light yellowish grey, silty sand.							DS-4	14.00
							SPT-7	14.50-14.95
							DS-5	15.50
							*UDS-7	16.00-16.45
17.00m							DS-6	17.00
Very stiff, light yellowish grey, silty clay.							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.00m							DS-8	20.00
Dense to very dense, light yellowish grey, silty sand.							SPT-9	20.50-20.95
20.75m								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.111

Co-ordinates E=(-)3156.000
N=3298.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 06/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.143 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
20.75m								
Dense to very dense, light yellowish grey, silty sand.							DS-9	21.50
		14	20	29		49	SPT-10	22.00-22.45
							DS-10	23.00
		12	19	24		43	SPT-11	23.50-23.95
							DS-11	24.50
		9	19	25		44	SPT-12	25.00-25.45
							DS-12	26.00
		13	21	25		46	SPT-13	26.50-26.95
							DS-13	27.50
		10	22	30		52	SPT-14	28.00-28.45
29.00m								
Hard, brownish grey, silty clay with sand mixture. Obs. brown patches.							DS-14	29.00
		14	22	27		49	SPT-15	29.50-29.95
							DS-15	30.50
32.00m							SPT-16	31.00-31.45
							DS-16	32.00
		17	25	31		56	SPT-17	32.50-32.95
							DS-17	33.50
Very dense, light yellowish grey, silty sand.		20	29	35		64	SPT-18	34.00-34.45
							DS-18	35.00
		15	19	29		48	SPT-19	35.50-35.95
35.00m							DS-19	36.50
		22	34	40		74	SPT-20	37.00-37.45
							DS-20	38.00
38.00m							SPT-21	38.50-38.95
		35	43	52		95	DS-21	39.50
							SPT-22	40.00-40.45
Very dense light yellowish grey, silty sand with clay mixture.								
		32	40	52		93		
40.45m								
N.B. - '*' means sample could not be recovered.								

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 02/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.112

Co-ordinates E=(-)3242.000
N=3299.000

Field Test	Nos	Samples	Nos	Commencement Date : 06/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.564 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m								WS-1 DS-1	0.45 0.50
Filled up soil consists of light grey, fly ash.		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
Very soft, dark grey, silty clay / clayey silt.								UDS-3	6.00-6.45
		0	0	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
		2	2	3				SPT-5	9.00-9.45
10.00m								*UDS-5	10.00-10.45
Stiff, light grey, silty clay with sand mixtue. Obs. brown patches.		2	4	5				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
13.00m								UDS-6	13.00-13.45
Medium dense, light greenish grey, silty sand.		5	9	12				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								*UDS-7	16.00-16.45
								DS-6	17.00
17.50m		8	15	18				SPT-8	17.50-17.95
Dense, light yellow, silty sand with traces of clay binder.								DS-7	18.50
								UDS-8	19.00-19.45
								DS-8	20.00
20.50m		6	11	13				SPT-9	20.50-20.95
Very stiff, light greenish grey, sandy clay. Obs. yellow & brown patches.								DS-9	21.50
21.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 02/02/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.112

Co-ordinates E=(-)3242.000
N=3299.000

Field Test	Nos	Samples	Nos	Commencement Date : 06/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 08/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.564 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 0.45 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
21.50m Very stiff, light greenish grey, sandy clay. Obs. yellow & brown patches.		5	12	17	29	SPT-10	22.00-22.45
23.50m		8	13	18	31	DS-10	23.00
Dense, light yellowish grey, silty sand.		11	17	19	36	SPT-11	23.50-23.95
		10	17	18	35	DS-11	24.50
		13	19	21	40	SPT-12	25.00-25.45
		11	20	25	45	DS-12	26.00
		8	15	23	38	SPT-13	26.50-26.95
31.00m Dense to very dense, light yellowish grey, silty sand with black spots.		12	21	29	50	DS-13	27.50
		18	24	31	55	SPT-14	28.00-28.45
34.00m Hard, light yellowish grey, silty clay. Obs. brown spots.		15	30	31	61	DS-14	29.00
		18	16	25	41	SPT-15	29.50-29.95
37.00m Dense, light yellowish grey to light yellow, silty sand.		10	16	26	42	DS-15	30.50
		11	16	21	37	SPT-16	31.00-31.45
40.45m						DS-16	32.00
						SPT-17	32.50-32.95
						DS-17	33.50
						SPT-18	34.00-34.45
						DS-18	35.00
						SPT-19	35.50-35.95
						DS-19	36.50
						SPT-20	37.00-37.45
						DS-20	38.00
						SPT-21	38.50-38.95
						DS-21	39.50
						SPT-22	40.00-40.45

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.113

Co-ordinates E=(-)3142.000
N=3346.000

Field Test	Nos	Samples	Nos	Commencement Date : 03/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.834 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm.					Ref. No	Depth (m)
0.00m								
Filled up soil consists of light grey, fly ash.		0	0	0			DS-1	0.50
							SPT-1	1.00-1.45
							*UDS-1	2.00-2.45
3.00m		0	0	0			SPT-2	3.00-3.45
Very soft, brownish grey, silty clay.							*UDS-2	4.00-4.45
		0	0	1			SPT-3	5.00-5.45
							UDS-3	6.00-6.45
7.00m		0	0	1			SPT-4	7.00-7.45
Very soft, blackish grey, silty clay.							UDS-4	8.00-8.45
9.00m		3	3	3			SPT-5	9.00-9.45
Medium, greyish brown, silty clay.							*UDS-5	10.00-10.45
		2	2	3			DS-2	11.00
12.00m							SPT-6	11.50-11.95
Medium dense, light greenish grey, silty sand. Obs. black patches.		5	8	11			DS-3	12.50
							UDS-6	13.00-13.45
15.50m							DS-4	14.00
		9	14	23			SPT-7	14.50-14.95
Dense, light greenish grey, silty sand. Obs. black patches.							DS-5	15.50
							*UDS-7	16.00-16.45
20.00m							DS-6	17.00
							SPT-8	17.50-17.95
							DS-7	18.50
							UDS-8	19.00-19.45
20.75m		17	24	29			DS-8	20.00
Very dense, light greenish yellow, silty sand.							SPT-9	20.50-20.95

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 27/01/2015 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.113

Co-ordinates E=(-)3142.000
N=3346.000

Field Test	Nos	Samples	Nos	Commencement Date : 03/01/15
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 04/01/15
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.834 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.5 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
Very dense, light greenish yellow, silty sand.								DS-9	21.50
		15	26	24			50	SPT-10	22.00-22.45
								DS-10	23.00
		9	18	19			37	SPT-11	23.50-23.95
								DS-11	24.50
		12	15	21			36	SPT-12	25.00-25.45
								DS-12	26.00
		11	21	23			44	SPT-13	26.50-26.95
								DS-13	27.50
		14	24	30			54	SPT-14	28.00-28.45
Hard, dark brownish grey, sandy clay. Obs. steel blackish grey patches.								DS-14	29.00
		13	22	26			48	SPT-15	29.50-29.95
								DS-15	30.50
		10	23	32			55	SPT-16	31.00-31.45
								DS-16	32.00
		12	22	26			48	SPT-17	32.50-32.95
Dense to very dense, dark yellowish grey, silty sand with clay binder. Obs. red patches.								DS-17	33.50
		17	30	36			66	SPT-18	34.00-34.45
								DS-18	35.00
		11	17	28			45	SPT-19	35.50-35.95
Very dense, dark grey, silty sand. Obs. brown patches.								DS-19	36.50
								SPT-20	37.00-37.45
		20	29	24			53		
								DS-20	38.00
		21	25	34			63	SPT-21	38.50-38.95
								DS-21	39.50
N.B. - '*' means sample could not be recovered.		30	39	46			85	SPT-22	40.00-40.45

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.114

Co-ordinates E=(-)3182.000
N=3410.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 26/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.935 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	0			0	SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
2.45m									
Very soft, steel grey to deep grey, silty clay with sand mixture. Obs. micasists from SPT-04.		0	0	0			0	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1			1	SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	1	1			2	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
		2	2	3			5	SPT-5	9.00-9.45
Medium, light grey, clayey silt with sand mixture. Obs. steel grey patches.								*UDS-5	10.00-10.45
								DS-2	11.00
		1	3	3			6	SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
								DS-4	14.00
		6	6	9			15	SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
14.50m									
Stiff, steel grey, silty clay with sand mixture.								DS-6	17.00
		8	7	12			19	SPT-8	17.50-17.95
								DS-7	18.50
17.50m									
Very stiff, light grey, silty clay. Obs. steel grey patches.								UDS-8	19.50-19.95
								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 04/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.114

Co-ordinates E=(-)3182.000
N=3410.000

Field Test	Nos	Samples	Nos	Commencement Date : 24/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 26/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 8.935 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		10	18	26	44	SPT-9	20.50-20.95
Dense, light brownish grey, silty sand with clay lamination.						DS-9	21.50
		10	18	28	46	SPT-10	22.00-22.45
						DS-10	23.00
23.50m		10	21	26	47	SPT-11	23.50-23.95
Hard, light brownish grey, silty clay / clayey silt with sand mixture.						DS-11	24.50
		12	24	26	50	SPT-12	25.00-25.45
						DS-12	26.00
		12	20	25	45	SPT-13	26.50-26.95
28.00m						DS-13	27.50
		14	26	30	56	SPT-14	28.00-28.45
						DS-14	29.00
		15	27	33	60	SPT-15	29.50-29.95
31.00m						DS-15	30.50
		14	23	38	61	SPT-16	31.00-31.45
						DS-16	32.00
		23	39	45	84	SPT-17	32.50-32.95
34.00m						DS-17	33.50
		21	34	42	76	SPT-18	34.00-34.45
						DS-18	35.00
		20	40	54	94	SPT-19	35.50-35.95
39.50m						DS-19	36.50
		25	45	60	>100	SPT-20	37.00-37.45
						DS-20	38.00
		27	50	60	>100	SPT-21	38.50-38.95
40.35m						DS-21	39.50
		30	60	54	>100	SPT-22	40.00-40.35
N.B. - '*' means sample could not be recovered.					5.0 cm Pentn.		

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.115

Co-ordinates E=(-)3294.000
N=3345.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.239 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.70 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.45m								*UDS-1	2.00-2.45
		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
								SPT-3	5.00-5.45
Very soft, steel grey to deep grey, silty clay with sand mixture.		0	0	0				*UDS-3	6.00-6.45
								SPT-4	7.00-7.45
		0	0	1				UDS-4	8.00-8.45
9.00m								SPT-5	9.00-9.45
		0	0	1				UDS-5	10.00-10.45
Very soft, deep grey, silty clay / clayey silt with sand mixture. Obs. mica.								DS-2	11.00
		0	1	1				SPT-6	11.50-11.95
12.50m								DS-3	12.50
								UDS-6	13.00-13.45
Medium, steel grey, clayey silt with sand mixture.		3	4	4				DS-4	14.00
								SPT-7	14.50-14.95
15.50m								DS-5	15.50
Light grey, clayey silty sand.								UDS-7	16.00-16.45
								DS-6	17.00
17.50m		8	11	17				SPT-8	17.50-17.95
Very stiff, brownish grey, silty clay / clayey silt. Obs. steel grey patches.								DS-7	18.50
19.00m								*UDS-8	19.00-19.45
Brownish grey, silty fine sand.								DS-8	20.00
20.50m									

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.115

Co-ordinates E=(-)3294.000
N=3345.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/12/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 03/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 9.239 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.70 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m		11	23	23	46	SPT-9	20.50-20.95
						DS-9	21.50
		12	22	25	47	SPT-10	22.00-22.45
						DS-10	23.00
		14	21	26	47	SPT-11	23.50-23.95
						DS-11	24.50
25.00m		24	33	40	73	SPT-12	25.00-25.45
						DS-12	26.00
		26	39	45	84	SPT-13	26.50-26.95
						DS-13	27.50
		22	40	48	88	SPT-14	28.00-28.45
						DS-14	29.00
29.00m		11	21	27	48	SPT-15	29.50-29.95
						DS-15	30.50
31.00m		10	26	20	46	SPT-16	31.00-31.45
						DS-16	32.00
		11	20	26	46	SPT-17	32.50-32.95
						DS-17	33.50
		13	22	27	49	SPT-18	34.00-34.45
						DS-18	35.00
		10	21	30	51	SPT-19	35.50-35.95
						DS-19	36.50
		11	20	32	52	SPT-20	37.00-37.45
						DS-20	38.00
38.50m		12	22	37	59	SPT-21	38.50-38.95
						DS-21	39.50
		17	30	51	81	SPT-22	40.10-40.55
40.55m							

N.B. - '*' means sample could not be recovered.

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.116

Co-ordinates E=(-)3340.000
N=3390.000

Field Test	Nos	Samples	Nos	Commencement Date : 27/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 10.188 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.								DS-1	0.50
		0	0	0				SPT-1	1.00-1.45
								*UDS-1	2.00-2.45
3.00m									
Very soft, brownish grey, clayey silt with sand mixture.		0	0	0				SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
		0	0	1				SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
		0	1	1				SPT-4	7.00-7.45
								UDS-4	8.00-8.45
8.45m									
Very loose to loose, light grey, clayey sand.		0	1	1				SPT-5	9.00-9.45
								UDS-5	10.00-10.45
		1	1	2				DS-2	11.00
								SPT-6	11.50-11.95
								DS-3	12.50
								*UDS-6	13.00-13.45
		1	2	3				DS-4	14.00
								SPT-7	14.50-14.95
								DS-5	15.50
								UDS-7	16.00-16.45
19.00m									
Brownish grey, silty clay.		3	4	4				DS-6	17.00
								SPT-8	17.50-17.95
								DS-7	18.50
								UDS-8	19.00-19.45
20.50m								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 05/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.116

Co-ordinates E=(-)3340.000
N=3390.000

Field Test	Nos	Samples	Nos	Commencement Date : 27/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 29/11/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 10.188 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
Dense to very dense, brownish grey, silty coarse sand. Obs. steel grey patches, clay lamination, kankars.		11	20	29	49	SPT-9	20.50-20.95
					74	DS-9	21.50
		13	22	52		SPT-10	22.00-22.45
					50	DS-10	23.00
		12	21	29		SPT-11	23.50-23.95
					52	DS-11	24.50
		12	22	30		SPT-12	25.00-25.45
					62	DS-12	26.00
		13	24	38		SPT-13	26.50-26.95
					63	DS-13	27.50
Hard, yellowish brown, silty clay. Obs. grey patches, sand mixture.		14	23	40		SPT-14	28.00-28.45
					52	DS-14	29.00
		12	22	30		SPT-15	29.50-29.95
					56	DS-15	30.50
		13	24	32		SPT-16	31.00-31.45
Very dense, brownish grey, silty coarse sand. Obs. clay lamination, kankars.					67	DS-16	32.00
		14	27	40		SPT-17	32.50-32.95
					68	DS-17	33.50
		14	27	41		SPT-18	34.00-34.45
					>100	DS-18	35.00
Very dense, yellowish to brownish grey, silty coarse sand. Obs. kankars.		26	60	45		SPT-19	35.50-35.95
					95	DS-19	36.50
		22	44	51		SPT-20	37.00-37.45
					87	DS-20	38.00
		24	39	48		SPT-21	38.50-38.95
N.B. - '*' means sample could not be recovered.					80	DS-21	39.50
		29	38	42		SPT-22	40.10-40.55

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.117

Co-ordinates E=(-)3294.000
N=3345.000

Field Test	Nos	Samples	Nos	Commencement Date : 29/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 01/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 10.775 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.68 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm.						Ref. No	Depth (m)
0.00m									
Filled up soil consists of light grey, fly ash.		0	0	0				DS-1	0.50
								SPT-1	1.00-1.45
2.00m		0	0	0				SPT-2	2.00-2.45
Very soft, steel grey to deep grey, silty clay with sand mixture.		0	0	0				SPT-3	3.00-3.45
								*UDS-1	4.00-4.45
5.00m		0	0	0				SPT-4	5.00-5.45
								*UDS-2	6.00-6.45
Very soft, brownish grey, silty clay.		0	0	1				SPT-5	7.00-7.45
								UDS-3	8.00-8.45
9.00m		0	0	1				SPT-6	9.00-9.45
								UDS-4	10.00-10.45
Very soft, deep grey, silty clay.		0	0	1				DS-2	11.00
								SPT-7	11.50-11.95
								DS-3	12.50
14.00m		3	4	5				UDS-5	13.00-13.45
Loose, yellowish grey, silty sand.								DS-4	14.00
								SPT-8	14.50-14.95
								DS-5	15.50
17.50m		12	20	24				*UDS-6	16.00-16.45
Hard, light brownish grey, silty clay with high % of sand.								DS-6	17.00
								SPT-9	17.50-17.95
								DS-7	18.50
20.50m								UDS-7	19.00-19.45
								DS-8	20.00

Project : Geotech. Inv. Work for 2x660MW Coal Based STPP at Ash Dyke of NCTPS, Chennai. **CETEST**

Job No : 3388 Created by : Chandrani Created on : 11/12/2014 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.117

Co-ordinates E=(-)3294.000
N=3345.000

Field Test	Nos	Samples	Nos	Commencement Date : 29/11/14
Penetrometer (SPT)	22	Undisturbed (UDS)	8	Completion Date : 01/12/14
Cone (Pc)		Penetrometer (SPT)	22	Bore Hole Diameter : 150 mm.
Vane (V)		Disturbed (DS)	21	Level Of Ground : 10.775 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.68 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm.				Ref. No	Depth (m)
20.50m Hard, yellowish grey, silty clay with high % of coarse sand.		12	28	22	50	SPT-10	20.50-20.95
					54	DS-9	21.50
		14	24	30		SPT-11	22.00-22.45
23.00m Very dense, brownish grey, silty coarse sand.					65	DS-10	23.00
		16	27	38		SPT-12	23.50-23.95
					77	DS-11	24.50
		20	32	45		SPT-13	25.00-25.45
					72	DS-12	26.00
27.00m		21	30	42		SPT-14	26.50-26.95
					46	DS-13	27.50
		11	19	27		SPT-15	28.00-28.45
					46	DS-14	29.00
Hard, yellowish brown, silty clay. Obs. steel grey patches.		12	20	26		SPT-16	29.50-29.95
						DS-15	30.50
						*UDS-8	31.00-31.45
						DS-16	32.00
32.50m Hard, brownish grey, silty clay. Obs. yellow patches.		13	21	27	48	SPT-17	32.50-32.95
					65	DS-17	33.50
34.00m		22	30	35		SPT-18	34.00-34.45
					100	DS-18	35.00
		27	43	57		SPT-19	35.50-35.95
					94	DS-19	36.50
Very dense, brownish grey, silty coarse sand. Obs. kankars.		20	38	56		SPT-20	37.00-37.45
					99	DS-20	38.00
		22	40	59		SPT-21	38.50-38.95
					75	DS-21	39.50
N.B. - '*' means sample could not be recovered.		25	35	40		SPT-22	40.00-40.45
40.45m							

