Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.34

Co-ordinates E=(-)1123.000 N=1123.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 05/08/2018
Completion Date : 05/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 284.478 M.
Water Struck At :
Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
			DS-1	0.50
			DS-2	1.00
Filled up soil consists of reddish brown, silty clay / clayey silt with decomposed rock fragments.		9 13 19 32	SPT-1	1.40-1.85
		Refusal 100 4.0 cm Pentn.	*SPT-2	2.40-2.44
2.80m.		Refusal 100 3.0 cm Pentn.	*SPT-3	2.80-2.83
		NX. drilling from 2.80m to 15.00m	R1	CR=27% RQD=NIL
			R2	CR=28% RQD=NIL
			R3	CR=29% RQD=NIL
			R4	CR=27% RQD=NIL
Highly weathered, reddish brown, fine grained, fractured shale.			R5	CR=31% RQD=NIL
			R6	CR=33% RQD=NIL
			R7	CR=29% RQD=NIL
			R8	CR=24% RQD=NIL
8.50m.				

2.80
3.50
4.25
5.00
5.75
6.50
7.25
8.00

BH-34/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.34

Co-ordinates E=(-)1123.000 N=1123.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 05/08/2018
Completion Date : 05/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 284.478 M.
Water Struck At :
Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				8.75
Highly weathered, reddish brown, fine grained, fractured shale.			R9	CR=38% RQD=NIL
				9.50
			R10	CR=28% RQD=NIL
10.25m.				10.25
			R11	CR=28% RQD=NIL
				11.00
			R12	CR=31% RQD=NIL
				11.75
			R13	CR=35% RQD=NIL
Highly weathered, light grey, fine grained, fractured shale.				12.50
			R14	CR=36% RQD=NIL
				13.25
			R15	CR=37% RQD=NIL
				14.00
			R16	CR=24% RQD=NIL
				14.50
			R17	CR=28% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.35

Co-ordinates E=(-)894.000 N=888.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 15/06/2018
Completion Date : 17/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.970 M.
Water Struck At :
Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Hard, reddish brown, clayey silt / silty clay with disintegrated rock fragments.(Cl)		7 15 16 — 31	DS-1	0.50
			SPT-1	1.00-1.45
		Refusal		
		100 — 3.0 cm Pentn.	*SPT-2	1.60-1.63
1.70m.		100 — Refusal 2.0 cm Pentn.	*SPT-3	1.70-1.72
		NX. drilling from 1.70m to 15.00m	R1	CR=36% RQD=NIL 1.70 - 2.00
			R2	CR=25% RQD=NIL 2.00 - 2.75
			R3	CR=36% RQD=NIL 2.75 - 3.50
			R4	CR=38% RQD=NIL 3.50 - 4.25
			R5	CR=49% RQD=NIL 4.25 - 5.00
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R6	CR=49% RQD=NIL 5.00 - 5.75
			R7	CR=28% RQD=NIL 5.75 - 6.50
			R8	CR=42% RQD=NIL 6.50 - 7.25
			R9	CR=49% RQD=NIL 7.25 - 8.00
			R10	CR=48% RQD=NIL 8.00 - 8.50
8.50m.				

BH-35/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.35

Co-ordinates E=(-)894.000 N=888.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 15/06/2018
Completion Date : 17/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.970 M.
Water Struck At :
Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R11	CR=38% RQD=NIL
				9.25
			R12	CR=37% RQD=NIL
				10.00
			R13	CR=46% RQD=NIL
				10.75
			R14	CR=41% RQD=17%
				11.50
Moderately weathered, light grey to dark grey, fine grained, fractured shale.			R15	CR=46% RQD=16%
				12.25
			R16	CR=48% RQD=NIL
				13.00
			R17	CR=49% RQD=NIL
				13.75
			R18	CR=41% RQD=NIL
				14.50
14.50m.				
Slightly weathered, light grey to dark grey, fine grained, fractured shale.			R19	CR=68% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.36

Co-ordinates E=(-)771.000 N=1053.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 27/06/2018
Completion Date : 28/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.710 M.
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, clayey silt to silty clay with decomposed rock fragments.			DS-1	0.50
0.80m.		Refusal 100 2.0 cm Pentn. NX. drilling from 0.80m to 15.00m	*SPT-1	0.80-0.82
			R1	CR=40% RQD=NIL
			R2	CR=49% RQD=NIL
			R3	CR=48% RQD=NIL
Highly to modeartely weathered, reddish brown, fine grained fractured shale.			R4	CR=45% RQD=21%
			R5	CR=44% RQD=29%
			R6	CR=42% RQD=24%
5.25m.			R7	CR=34% RQD=NIL
			R8	CR=32% RQD=NIL
Highly to modeartely weathered, reddish brown, fine grained, fractured shale.			R9	CR=38% RQD=NIL
			R10	CR=32% RQD=NIL
8.50m.				

0.80 1.50 2.25 3.00 3.75 4.50 5.25 6.00 6.75 7.50 8.25

BH-36/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 24/07/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.36

Co-ordinates E=(-)771.000 N=1053.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 27/06/2018
Completion Date : 28/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.710 M.
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.			R11	CR=36% RQD=NIL
				9.00
			R12	CR=34% RQD=NIL
				9.75
			R13	CR=36% RQD=NIL
				10.50
			R14	CR=37% RQD=NIL
				11.25
Highly to modeartely weathered, reddish brown, fine grained, fractured shale.			R15	CR=40% RQD=NIL
				12.00
			R16	CR=37% RQD=NIL
				12.75
			R17	CR=36% RQD=NIL
				13.50
			R18	CR=41% RQD=NIL
				14.25
			R19	CR=44% RQD=34%
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.37

Co-ordinates E=(-)716.000 N=1016.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	1

Commencement Date : 22/06/2018
Completion Date : 24/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.590 M.
Water Struck At :
Standing Water Level : 2.58 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	Depth (m)
0.00m. Filled up soil consist of reddish brown, clayey silt to silty clay with decomposed rock fragments.		Refusal	DS-1	0.40
0.50m. Modeartely weathered, reddish brown, fine grained, fractured shale.		100 2.0 cm Pentn. NX. drilling from 0.50m to 15.00m	*SPT-1	0.50-0.52
			R1	CR=44% RQD=NIL
1.25m.			R2	CR=51% RQD=NIL
			R3	CR=50% RQD=15%
			WS-1	2.58
			R4	CR=53% RQD=NIL
			R5	CR=52% RQD=NIL
Modeartely to slightly weathered, reddish brown, fine grained, fractured shale.			R6	CR=56% RQD=14%
			R7	CR=73% RQD=21%
			R8	CR=77% RQD=66%
			R9	CR=69% RQD=26%
			R10	CR=80% RQD=58%
8.50m.			R11	CR=72% RQD=NIL

0.50 1.25 2.00 2.75 3.50 4.25 5.00 5.75 6.50 7.25 8.00

BH-37/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.37

Co-ordinates E=(-)716.000 N=1016.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	1

Commencement Date : 22/06/2018
Completion Date : 24/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.590 M.
Water Struck At :
Standing Water Level : 2.58 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				8.75
			R12	CR=74% RQD=NIL
				9.50
			R13	CR=73% RQD=42%
				10.25
			R14	CR=68% RQD=21%
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.				11.00
			R15	CR=68% RQD=NIL
				11.75
			R16	CR=69% RQD=NIL
				12.50
			R17	CR=54% RQD=13%
				13.25
			R18	CR=50% RQD=41%
				14.00
			R19	CR=60% RQD=NIL
14.50m.				14.50
Highly weathered, fine grained, reddish brown, fractured shale.			R20	CR=32% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.38

Co-ordinates E=(-)663.000 N=1061.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 21/06/2018
Completion Date : 22/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.770 M.
Water Struck At :
Standing Water Level : 1.98 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Reddish brown, clayey silt with decomposed rock fragments.(Cl) 0.30m		Refusal 100 2.0 cm Pentn. NX. drilling from 0.30m to 15.80m	DS-1	0.20
			*SPT-1	0.30-0.32
			R1	CR=56% RQD=NIL
			R2	CR=50% RQD=NIL
			R3	CR=66% RQD=NIL
Moderately to slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R4	CR=64% RQD=NIL
			R5	CR=74% RQD=57%
			R6	CR=73% RQD=38%
			R7	CR=70% RQD=22%
			R8	CR=77% RQD=66%
			R9	CR=76% RQD=44%
			R10	CR=74% RQD=44%
			R11	CR=66% RQD=17%
8.50m				

0.30 1.05 1.80 2.55 3.30 4.05 4.80 5.55 6.30 7.05 7.80 8.55

BH-38/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.38

Co-ordinates E=(-)663.000 N=1061.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 21/06/2018
Completion Date : 22/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.770 M.
Water Struck At :
Standing Water Level : 1.98 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R12	CR=68% RQD=16%
				9.30
			R13	CR=69% RQD=NIL
				10.05
			R14	CR=76% RQD=40%
				10.80
Moderately to slightly weathered / fresh, reddish brown, fine grained, fracture shale.			R15	CR=70% RQD=53%
				11.55
			R16	CR=73% RQD=65%
				12.30
			R17	CR=74% RQD=62%
				13.05
			R18	CR=84% RQD=80%
13.80m.				13.80
			R19	CR=76% RQD=53%
				14.55
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R20	CR=70% RQD=68%
				15.30
			R21	CR=80% RQD=70%
15.80m.				15.80

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.39

Co-ordinates E=(-)625.000 N=1028.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 08/07/2018
Completion Date : 09/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.790 M.
Water Struck At :
Standing Water Level : 2.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Hard, reddish brown, clayey silt with decomposed rock fragment.(Cl)			DS-1	0.50
0.70m		100 Refusal 3.0 cm Pentr.	*SPT-1	0.70-0.73
Moderately werathered, reddish brown, fine grained, fractured shale.		NX. drilling from 0.70m to 14.95m	R1	CR=40% RQD=NIL
			R2	CR=47% RQD=NIL
2.20m			R3	CR=77% RQD=58%
Slightly werathered, reddish brown, fine grained, fractured shale.			R4	CR=73% RQD=NIL
			R5	CR=72% RQD=51%
			R6	CR=69% RQD=53%
			R7	CR=68% RQD=35%
			R8	CR=72% RQD=40%
			R9	CR=73% RQD=NIL
			R10	CR=75% RQD=15%
8.50m				

0.70 1.45 2.20 2.95 3.70 4.45 5.20 5.95 6.70 7.45 8.20

BH-39/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.39

Co-ordinates E=(-)625.000 N=1028.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 08/07/2018
Completion Date : 09/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.790 M.
Water Struck At :
Standing Water Level : 2.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
	8.50m.		R11	CR=76% RQD=20%
				8.95
			R12	CR=78% RQD=31%
Slightly werathered, reddish brown, fine grained, fractured shale.				9.70
			R13	CR=75% RQD=56%
				10.45
			R14	CR=79% RQD=74%
	11.20m.			11.20
			R15	CR=89% RQD=74%
				11.95
			R16	CR=86% RQD=60%
				12.70
Fresh, reddish brown, fine grained, fractured shale.			R17	CR=89% RQD=80%
				13.45
			R18	CR=89% RQD=52%
				14.20
			R19	CR=88% RQD=51%
	14.95m.			14.95

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.40

Co-ordinates E=(-)571.000 N=1049.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	0	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	0
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 29/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.589 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.		NX. drilling from 0.00m to 20.00m		0.00
			R1	CR=26% RQD=NIL
				0.75
			R2	CR=29% RQD=13%
				1.50
			R3	CR=26% RQD=16%
				2.25
			R4	CR=30% RQD=NIL
				3.00
			R5	CR=34% RQD=16%
				3.75
			R6	CR=40% RQD=20%
Highly to moderately weathered, reddish brown, fine grained, fractured shale.				4.50
			R7	CR=44% RQD=16%
				5.25
			R8	CR=56% RQD=30%
				6.00
			R9	CR=38% RQD=29%
				6.75
			R10	CR=42% RQD=24%
				7.50
			R11	CR=38% RQD=22%
				8.25
			R12	CR=40% RQD=20%
				9.00
			R13	CR=44% RQD=26%
				9.75
			R14	CR=48% RQD=30%
10.50m.				10.50
10.50m.				

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.40

Co-ordinates E=(-)571.000 N=1049.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	0	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	0
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 29/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.589 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
10.50m.				
Moderately weathered, reddish brown, fine grained, fractured shale.			R15	CR=52% RQD=26%
				11.25
			R16	CR=54% RQD=36%
				12.00
			R17	CR=60% RQD=40%
				12.75
			R18	CR=56% RQD=32%
13.50m.				13.50
Highly / moderately weathered, reddish brown, fine grained, highly fractured shale.			R19	CR=48% RQD=38%
				14.25
			R20	CR=37% RQD=32%
15.00m.				15.00
Moderately weathered, reddish brown, fine grained, moderately fractured shale.			R21	CR=58% RQD=37%
				15.75
			R22	CR=55% RQD=40%
16.50m.				16.50
Highly to moderately weathered, reddish brown, fine grained, moderately fractured shale.			R23	CR=39% RQD=30%
				17.25
			R24	CR=45% RQD=42%
				18.00
			R25	CR=42% RQD=16%
18.75m.				18.75
Moderately weathered, reddish brown, fine grained, moderately fractured shale.			R26	CR=55% RQD=40%
				19.50
			R27	CR=60% RQD=40%
20.00m.				20.00

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.41

Co-ordinates E=(-)501.000 N=1039.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	0	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	0
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 20/07/2018
Completion Date : 21/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.511 M.
Water Struck At :
Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.		NX. drilling from 0.00m to 15.00m		0.00
			R1	CR=32% RQD=NIL
				0.75
			R2	CR=30% RQD=NIL
				1.50
			R3	CR=34% RQD=NIL
				2.25
			R4	CR=38% RQD=16%
				3.00
Highly to moderately weathered, reddish brown, fine grained, highly fractured shale.			R5	CR=40% RQD=36%
				3.75
			R6	CR=42% RQD=13%
				4.50
			R7	CR=37% RQD=34%
				5.25
			R8	CR=38% RQD=34%
				6.00
			R9	CR=36% RQD=18%
				6.75
			R10	CR=39% RQD=20%
				7.50
8.00m.			R11	CR=38% RQD=30%

BH-41/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 01/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.41

Co-ordinates E=(-)501.000 N=1039.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	0	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	0
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 20/07/2018
Completion Date : 21/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.511 M.
Water Struck At :
Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.				8.25
Highly to moderately weathered, reddish brown, fine grained, highly fractured shale.			R12	CR=40% RQD=34%
				9.00
			R13	CR=44% RQD=38%
9.75m.				9.75
			R14	CR=38% RQD=20%
				10.50
			R15	CR=40% RQD=20%
				11.25
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R16	CR=42% RQD=26%
				12.00
			R17	CR=46% RQD=29%
				12.75
			R18	CR=46% RQD=38%
				13.50
			R19	CR=50% RQD=40%
14.25m.				14.25
Moderately weathered, reddish brown, fine grained, fractured shale.			R20	CR=55% RQD=36%
15.00m.				15.00

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.42

Co-ordinates E=(-)767.000 N=960.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 07/06/2018
Completion Date : 12/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.600 M.
Water Struck At :
Standing Water Level : 5.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Hard (N>50), reddish brown, clayey silt with decomposed rock fragment.(Cl)		100 Refusal 3.0 cm Pentn.	DS-1	0.50
			*SPT-1	0.60-0.63
0.70m. Highly weathered, reddish brown, fine grained, moderately strong fractured shale.		100 Refusal 2.0 cm Pentn. NX. drilling from 0.70m to 20.00m	*SPT-2	0.70-0.72
			R1	CR=23% RQD=NIL
1.25m.				1.25
			R2	CR=36% RQD=NIL
				2.00
			R3	CR=37% RQD=NIL
				2.75
			R4	CR=66% RQD=37%
				3.50
			R5	CR=42% RQD=NIL
				4.25
			R6	CR=44% RQD=13%
Highly to moderately weathered, reddish brown, fine grained, moderately fractured shale.				5.00
			R7	CR=48% RQD=NIL
				5.75
			R8	CR=49% RQD=NIL
				6.50
			R9	CR=53% RQD=NIL
				7.25
			R10	CR=54% RQD=36%
				8.00
			R11	CR=57% RQD=44%
				8.75
			R12	CR=44% RQD=NIL
				9.50
			R13	CR=38% RQD=NIL
10.25m. 10.50m.				10.25

BH-42/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.42

Co-ordinates E=(-)767.000 N=960.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 07/06/2018
Completion Date : 12/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.600 M.
Water Struck At :
Standing Water Level : 5.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
10.50m.				
Moderately to slightly weathered, light grey to brownish grey, fine grained, highly fractured shale.			R14	CR=50% RQD=NIL 11.00
			R15	CR=52% RQD=NIL 11.75
			R16	CR=64% RQD=NIL 12.50
12.50m.			R17	CR=34% RQD=NIL 13.25
			R18	CR=36% RQD=NIL 14.00
			R19	CR=45% RQD=25% 14.75
			R20	CR=45% RQD=20% 15.50
Highly / moderately weathered, light grey to brownish grey, fine grained, highly to moderately fractured shale.			R21	CR=39% RQD=NIL 16.25
			R22	CR=30% RQD=NIL 17.00
			R23	CR=34% RQD=NIL 17.75
			R24	CR=36% RQD=NIL 18.50
			R25	CR=40% RQD=NIL 19.25
			R26	CR=49% RQD=NIL 20.00
20.00m.				

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.43

Co-ordinates E=(-)664.000 N=949.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 08/06/2018
Completion Date : 09/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.730 M.
Water Struck At :
Standing Water Level : 3.05 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, clayey silt with decomposed rock fragments.			DS-1	0.20
0.40m.		100 Refusal	*SPT-1	0.40-0.42
		2.0 cm Pentr. NX. drilling from 0.40m to 15.00m	R1	CR=25% RQD=NIL
Highly weathered, reddish brown, fine grained, fractured shale.			R2	CR=24% RQD=NIL
1.75m.			R3	CR=52% RQD=NIL
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R4	CR=66% RQD=NIL
			R5	CR=52% RQD=NIL
			R6	CR=57% RQD=NIL
			R7	CR=66% RQD=13%
5.50m.			R8	CR=33% RQD=NIL
Highly weathered, reddish brown, fine grained, fractured shale.			R9	CR=40% RQD=NIL
7.00m.			R10	CR=66% RQD=25%
Slightly weathered, reddish brown, fine grained, fractured shale.			R11	CR=61% RQD=NIL
8.50m.				

0.40 1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75 8.50

BH-43/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.43

Co-ordinates E=(-)664.000 N=949.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 08/06/2018
Completion Date : 09/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.730 M.
Water Struck At :
Standing Water Level : 3.05 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R12	CR=62% RQD=NIL
				9.25
			R13	CR=66% RQD=NIL
				10.00
Slightly weathered, reddish brown, fine grained, fractured shale.			R14	CR=65% RQD=13%
				10.75
			R15	CR=60% RQD=NIL
				11.50
			R16	CR=64% RQD=NIL
12.25m.				12.25
			R17	CR=48% RQD=NIL
				13.00
Moderately / slightly weathered, light grey, fine grained, fractured shale.			R18	CR=66% RQD=22%
				13.75
			R19	CR=56% RQD=41%
14.50m.				14.50
Highly weathered, light grey, fine grained, fractured shale.			R20	CR=36% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.44

Co-ordinates E=(-)582.000 N=962.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 30/07/2018
Completion Date : 01/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 283.500 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m				
Hard (N>50), brownish grey, silty clay / clayey silt. Obs. decomposed rock.(Cl)		Refusal 100 5.0 cm Pentn.	DS-1	0.50
		Refusal 100 4.0 cm Pentn.	*SPT-1	1.00-1.05
1.50m		NX. drilling from 1.50m to 15.00m	*SPT-2	1.50-1.54
			R1	CR=28% RQD=NIL
			R2	CR=30% RQD=NIL
			R3	CR=32% RQD=13%
			R4	CR=36% RQD=16%
Highly weathered, reddish brown, fine grained, highly fractured shale.			R5	CR=40% RQD=30%
			R6	CR=29% RQD=NIL
			R7	CR=36% RQD=20%
			R8	CR=38% RQD=18%
			R9	CR=40% RQD=30%
8.50m				

1.50 2.25 3.00 3.75 4.50 5.25 6.00 6.75 7.50 8.25

BH-44/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.44

Co-ordinates E=(-)582.000 N=962.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 30/07/2018
Completion Date : 01/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 283.500 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m. Highly weathered, reddish brown, fine grained, highly fractured shale. 9.00m.			R10	CR=39% RQD=26% 9.00
			R11	CR=40% RQD=26% 9.75
			R12	CR=44% RQD=32% 10.50
			R13	CR=48% RQD=36% 11.25
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R14	CR=46% RQD=20% 12.00
			R15	CR=40% RQD=16% 12.75
			R16	CR=54% RQD=30% 13.50
			R17	CR=58% RQD=40% 14.25
			R18	CR=46% RQD=30% 15.00
15.00m.				

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.45

Co-ordinates E=(-)481.000 N=913.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.570 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of brownish grey, silty clay / clayey silt.			DS-1	0.50
			DS-2	1.00
1.40m.				
Hard(N>50), brownish grey, silty clay / clayey silt with decomposed rock.(Cl)		9 21 30 51	SPT-1	1.45-1.90
			DS-3	2.40
		Refusal 100 5.0 cm Pentn.	*SPT-2	2.70-2.75
2.90m.		Refusal 100 4.0 cm Pentn.	*SPT-3	2.90-2.94
		NX. drilling from 2.90m to 15.00m	R1	CR=28% RQD=NIL 2.90 - 3.50
			R2	CR=30% RQD=NIL 3.50 - 4.25
			R3	CR=28% RQD=NIL 4.25 - 5.00
Highly to moderately weathered, reddish brown, fine grained, highly fractured shale.			R4	CR=33% RQD=NIL 5.00 - 5.75
			R5	CR=40% RQD=NIL 5.75 - 6.50
			R6	CR=38% RQD=NIL 6.50 - 7.25
			R7	CR=36% RQD=NIL 7.25 - 8.00
8.50m.			R8	CR=43% RQD=NIL

BH-45/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 07/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.45

Co-ordinates E=(-)481.000 N=913.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.570 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
				8.75
			R9	CR=40% RQD=26%
				9.50
			R10	CR=45% RQD=26%
				10.25
			R11	CR=40% RQD=24%
				11.00
			R12	CR=38% RQD=30%
Highly to moderately weathered, reddish brown, fine grained, highly fractured shale.				11.75
			R13	CR=42% RQD=NIL
				12.50
			R14	CR=40% RQD=30%
				13.25
			R15	CR=40% RQD=36%
				14.00
			R16	CR=44% RQD=20%
				15.00

8.50m.

15.00m.

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.46

Co-ordinates E=(-)497.000 N=847.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 29/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.550 M.
Water Struck At :
Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of brownish grey, silty clay / clayey silt. Obs. kankars.			DS-1	0.50
			DS-2	1.00
1.50m. Hard(N>50), brownish grey, silty clay / clayey silt with decomposed rock.(Cl)		10 24 54	SPT-1	1.50-1.95
			DS-3	2.40
		Refusal		
		100 4.0 cm Pentn.	*SPT-2	2.60-2.64
2.80m.		100 Refusal 4.0 cm Pentn.	*SPT-3	2.80-2.84
		NX. drilling from 2.80m to 15.00m	R1	CR=24% RQD=NIL 2.80 - 3.50
			R2	CR=28% RQD=NIL 3.50 - 4.25
			R3	CR=26% RQD=NIL 4.25 - 5.00
Highly weathered, reddish brown, fine grained, highly fractured shale.			R4	CR=30% RQD=NIL 5.00 - 5.75
			R5	CR=32% RQD=NIL 5.75 - 6.50
			R6	CR=28% RQD=NIL 6.50 - 7.25
			R7	CR=38% RQD=NIL 7.25 - 8.00
8.50m.			R8	CR=39% RQD=NIL 8.00 -

BH-46/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 07/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.46

Co-ordinates E=(-)497.000 N=847.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 29/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.550 M.
Water Struck At :
Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				8.75
Highly weathered, reddish brown, fine grained, highly fractured shale.			R9	CR=40% RQD=NIL
9.50m.				9.50
			R10	CR=42% RQD=13%
				10.25
			R11	CR=44% RQD=16%
				11.00
			R12	CR=48% RQD=24%
				11.75
Moderately weathered, reddish brown, fine grained, highly to moderately fractured shale.			R13	CR=40% RQD=13%
				12.50
			R14	CR=38% RQD=NIL
				13.25
			R15	CR=52% RQD=38%
				14.00
			R16	CR=42% RQD=40%
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.47

Co-ordinates E=(-)753.000 N=765.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 27/07/2018
Completion Date : 30/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.854 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of reddish brown, clayey silt to silty clay with decomposed rock fragments.		Refusal 100 2.0 cm Pentn.	DS-1	0.50
			*SPT-1	1.40-1.42
1.50m.		Refusal 100 2.0 cm Pentn.	*SPT-2	1.50-1.52
Highly weathered, reddish brown, fine grained, fractured shale.		NX. drilling from 1.50m to 15.00m	R1	CR=25% RQD=NIL 1.50 2.25
2.25m.			R2	CR=31% RQD=NIL 3.00
			R3	CR=31% RQD=NIL 3.75
			R4	CR=28% RQD=NIL 4.50
			R5	CR=36% RQD=NIL 5.25
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R6	CR=32% RQD=16% 6.00
			R7	CR=29% RQD=NIL 6.75
			R8	CR=32% RQD=NIL 7.50
			R9	CR=45% RQD=20% 8.25
8.50m.				

BH-47/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 07/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.47

Co-ordinates E=(-)753.000 N=765.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 27/07/2018
Completion Date : 30/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.854 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.			R10	CR=41% RQD=20%
				9.00
			R11	CR=42% RQD=16%
				9.75
			R12	CR=47% RQD=13%
				10.50
			R13	CR=41% RQD=36%
				11.25
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R14	CR=49% RQD=37%
				12.00
			R15	CR=44% RQD=40%
				12.75
			R16	CR=50% RQD=29%
				13.50
			R17	CR=41% RQD=19%
				14.25
			R18	CR=49% RQD=33%
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.48

Co-ordinates E=(-)571.000 N=759.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 21/07/2018
Completion Date : 22/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.211 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m				
Medium, reddish brown, silty clay/clayey silt.(Cl)			DS-1	0.50
		2 3 3 6	SPT-1	1.50-1.95
2.40m		Refusal 100 3.0 cm Pentn.	*SPT-2	2.40-2.43
		NX. drilling from 2.40m to 15.00m	R1	CR=26% RQD=NIL
			R2	CR=25% RQD=NIL
Completely to highly weathered, reddish brown to greyish brown, fine grained, fractured shale.			R3	CR=20% RQD=NIL
			R4	CR=23% RQD=NIL
			R5	CR=25% RQD=NIL
6.15m			R6	CR=28% RQD=NIL
Highly to moderately weathered, reddish brown to greyish brown, fine grained, fractured shale.			R7	CR=38% RQD=NIL
8.00m				

2.40
3.15
3.90
4.65
5.40
6.15
6.90
7.65

BH-48/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.48

Co-ordinates E=(-)571.000 N=759.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 21/07/2018
Completion Date : 22/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.211 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.			R8	CR=44% RQD=NIL
				8.40
			R9	CR=44% RQD=NIL
				9.15
			R10	CR=40% RQD=NIL
				9.90
			R11	CR=50% RQD=18%
				10.65
			R12	CR=49% RQD=15%
Highly to moderately weathered, reddish brown to greyish brown, fine grained, fractured shale.				11.40
			R13	CR=49% RQD=NIL
				12.15
			R14	CR=47% RQD=NIL
				12.90
			R15	CR=48% RQD=13%
				13.65
			R16	CR=52% RQD=NIL
				14.40
			R17	CR=45% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.49

Co-ordinates E=(-)1050.000 N=713.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 31/07/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.970 M.
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.			DS-1	0.50
Filled up soil consists of reddish brown, clayey silt to silty clay with decomposed rock fragments.		Refusal 100 3.0 cm Pentn.	*SPT-1	0.80-0.83
1.00m.		Refusal 100 2.0 cm Pentn.	*SPT-2	1.00-1.02
		NX. drilling from 1.00m to 15.00m	R1	CR=37% RQD=NIL 1.00 - 1.75
			R2	CR=33% RQD=NIL 1.75 - 2.50
			R3	CR=35% RQD=NIL 2.50 - 3.25
			R4	CR=40% RQD=14% 3.25 - 4.00
			R5	CR=36% RQD=NIL 4.00 - 4.75
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R6	CR=45% RQD=31% 4.75 - 5.50
			R7	CR=44% RQD=NIL 5.50 - 6.25
			R8	CR=48% RQD=16% 6.25 - 7.00
			R9	CR=44% RQD=24% 7.00 - 7.75
			R10	CR=47% RQD=15% 7.75 - 8.50
8.50m.				

BH-49/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.49

Co-ordinates E=(-)1050.000 N=713.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 31/07/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.970 M.
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
	8.50m.		R11	CR=49% RQD=14%
				9.25
			R12	CR=47% RQD=NIL
				10.00
			R13	CR=45% RQD=14%
				10.75
			R14	CR=44% RQD=NIL
Highly to moderately weathered, reddish brown, fine grained, fractured shale.				11.50
			R15	CR=43% RQD=14%
				12.25
			R16	CR=45% RQD=NIL
				13.00
			R17	CR=33% RQD=NIL
				13.75
			R18	CR=47% RQD=14%
				14.50
			R19	CR=42% RQD=NIL
	15.00m.			15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.50

Co-ordinates E=(-)1050.000 N=650.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 29/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.070 M.
Water Struck At :
Standing Water Level : 4.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
			DS-1	0.50
			DS-2	1.00
Filled up soil consists of reddish brown, clayey silt to silty clay with disintegrated rock fragments.		7 9 11 20	SPT-1	1.50-1.95
			DS-3	2.50
		Refusal		
		100 4.0 cm Pentn.	*SPT-2	2.80-2.84
3.00m.		100 Refusal 3.0 cm Pentn.	*SPT-3	3.00-3.03
		NX. drilling from 3.00m to 15.00m	R1	CR=25% RQD=NIL
			R2	CR=26% RQD=NIL
			R3	CR=24% RQD=NIL
Highly weathered, light grey to dark grey, fine grained, fractured shale.			R4	CR=21% RQD=NIL
			R5	CR=22% RQD=NIL
			R6	CR=22% RQD=NIL
			R7	CR=25% RQD=NIL
8.50m.				

3.00 3.75 4.50 5.25 6.00 6.75 7.50 8.25

BH-50/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.50

Co-ordinates E=(-)1050.000 N=650.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 29/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.070 M.
Water Struck At :
Standing Water Level : 4.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m. Highly weathered, light grey to dark grey, fine grained, fractured shale.			R8	CR=24% RQD=NIL
9.00m.				9.00
			R9	CR=29% RQD=NIL
				9.75
			R10	CR=36% RQD=17%
				10.50
Highly weathered, light grey to dark grey, fine grained, fractured shale.			R11	CR=32% RQD=NIL
				11.25
			R12	CR=31% RQD=NIL
				12.00
			R13	CR=37% RQD=NIL
12.75m.				12.75
			R14	CR=28% RQD=NIL
				13.50
Highly to modeartely weathered, light grey to dark grey, fine grained, fractured shale.			R15	CR=36% RQD=NIL
				14.25
			R16	CR=31% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.51

Co-ordinates E=(-)895.000 N=654.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
		Disturbed (DS)	3
Vane (V)		Water Sample (WS)	1

Commencement Date : 02/08/2018
Completion Date : 04/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.110 M.
Water Struck At :
Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Hard, brownish grey to light grey, silty clay / clayey silt with decomposed rock fragments.(Cl)			DS-1	0.50
			DS-2	1.00
			DS-3	1.50
		11 9 24 33	SPT-1	2.00-2.45
		100 Refusal 3.0 cm Pentn.	*SPT-2	2.60-2.63
2.70m.		100 Refusal 2.0 cm Pentn.	*SPT-3	2.70-2.72
		NX. drilling from 2.70m to 15.00m	R1	CR=22% RQD=NIL
			WS-1	2.80
Highly weathered, light grey, fine grained, fractured shale.			R2	CR=24% RQD=NIL
			R3	CR=24% RQD=17%
			R4	CR=26% RQD=NIL
			R5	CR=23% RQD=NIL
			R6	CR=25% RQD=NIL
			R7	CR=27% RQD=NIL
8.50m.			R8	CR=23% RQD=NIL

2.70
3.45
4.25
5.00
5.75
6.50
7.25
8.00

BH-51/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.51

Co-ordinates E=(-)895.000 N=654.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	1

Commencement Date : 02/08/2018
Completion Date : 04/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.110 M.
Water Struck At :
Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m. Highly weathered, light grey, fine grained, fractured shale.				8.75
			R9	CR=25% RQD=NIL
9.50m.				9.50
			R10	CR=34% RQD=14%
				10.25
			R11	CR=31% RQD=NIL
				11.00
			R12	CR=28% RQD=NIL
Highly weathered, light grey, fine grained, fractured shale.				11.75
			R13	CR=26% RQD=NIL
				12.50
			R14	CR=29% RQD=NIL
				13.25
			R15	CR=31% RQD=NIL
				14.00
			R16	CR=30% RQD=NIL
				14.50
			R17	CR=32% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.52

Co-ordinates E=(-)938.000 N=620.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 31/07/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 283.182 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
			DS-1	0.50
			DS-2	1.00
Filled up soil consist of reddish brown, clayey silt to silty clay with decomposed rock fragments.		8 11 13 (24)	SPT-1	1.50-1.95
			DS-3	2.50
		Refusal	*SPT-2	2.90-2.93
		100 3.0 cm Pentr.		
3.00m.		100 Refusal	*SPT-3	3.00-3.03
		3.0 cm Pentr.		3.00
		NX. drilling from 3.00m to 15.00m	R1	CR=25% RQD=NIL
				3.75
			R2	CR=25% RQD=NIL
				4.50
			R3	CR=23% RQD=NIL
				5.25
Highly weathered, reddish brown, fine grained, fractured shale.			R4	CR=25% RQD=NIL
				6.00
			R5	CR=29% RQD=NIL
				6.75
			R6	CR=28% RQD=NIL
				7.50
			R7	CR=24% RQD=NIL
8.25m.				8.25
8.50m.				

BH-52/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.52

Co-ordinates E=(-)938.000 N=620.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 31/07/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 283.182 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
	8.50m.		R8	CR=38% RQD=20%
				9.00
			R9	CR=35% RQD=14%
Highly weathered, reddish brown, fine grained, fractured shale.				9.75
			R10	CR=33% RQD=NIL
				10.50
			R11	CR=39% RQD=NIL
	11.25m.			11.25
			R12	CR=36% RQD=NIL
				12.00
			R13	CR=28% RQD=NIL
				12.75
Highly weathered, whitish grey, fine grained, fractured shale.			R14	CR=29% RQD=NIL
				13.50
			R15	CR=33% RQD=NIL
				14.25
			R16	CR=32% RQD=NIL
	15.00m.			15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.53

Co-ordinates E=(-)755.000 N=667.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 17/06/2018
Completion Date : 20/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.060 M.
Water Struck At :
Standing Water Level : 5.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consist of reddish brown, clayey silt with rock fragments.				
0.50m. Hard(N>50), reddish brown, clayey silt / silty clay with decomposed rock.(Cl)		>100 (32 68) 5.0 cm Pentr.	DS-1	0.50
			SPT-1	1.00-1.20
		100 Refusal 2.0 cm Pentr.	*SPT-2	1.40-1.42
1.50m. Highly weathered, yellowish grey, to light grey, fine grained, fractured shale.		100 Refusal 2.0 cm Pentr. NX. drilling from 1.50m to 15.00m	*SPT-3	1.50-1.52
			R1	CR=25% RQD=NIL
2.25m.			R2	CR=28% RQD=NIL
			R3	CR=29% RQD=NIL
			R4	CR=37% RQD=NIL
Highly to moderately weathered, yellowish grey to light grey, fine grained, fractured shale.			R5	CR=45% RQD=26%
			R6	CR=48% RQD=NIL
			R7	CR=44% RQD=NIL
			R8	CR=49% RQD=NIL
			R9	CR=44% RQD=NIL
8.50m.				

1.50 2.25 3.00 3.75 4.50 5.25 6.00 6.75 7.50 8.25

BH-53/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.53

Co-ordinates E=(-)755.000 N=667.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 17/06/2018
Completion Date : 20/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.060 M.
Water Struck At :
Standing Water Level : 5.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.			R10	CR=41% RQD=NIL
				9.00
Highly to moderately weathered, yellowish grey to light grey, fine grained, fractured shale.			R11	CR=47% RQD=NIL
				9.75
			R12	CR=46% RQD=NIL
10.25m.				10.25
			R13	CR=37% RQD=31%
				11.00
			R14	CR=21% RQD=NIL
				11.75
			R15	CR=37% RQD=NIL
Highly to moderately weathered, light grey to dark grey, fine grained, fractured shale.				12.50
			R16	CR=53% RQD=NIL
				13.25
			R17	CR=40% RQD=NIL
				14.00
			R18	CR=48% RQD=NIL
14.50m.				14.50
Moderately weathered, light grey, to dark grey, fine grained, fractured shale.			R19	CR=52% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.54

Co-ordinates E=(-)621.000 N=625.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 20/06/2018
Completion Date : 22/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.360 M.
Water Struck At :
Standing Water Level : 2.08 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consist of reddish brown, clayey silt to silty clay with decomposed rock.		Refusal	DS-1	0.30
0.40m.		100	*SPT-1	0.40-0.43
		3.0 cm Pentn. NX. drilling from 0.40m to 15.00m	R1	CR=58% RQD=31%
			R2	CR=45% RQD=33%
Highly / moderately weathered, reddish brown, fine grained, fractured shale.			R3	CR=44% RQD=14%
			R4	CR=25% RQD=NIL
			R5	CR=29% RQD=13%
			R6	CR=50% RQD=48%
4.75m.			R7	CR=84% RQD=78%
Slightly weathered, reddish brown, fractured shale.			R8	CR=72% RQD=56%
			R9	CR=76% RQD=60%
7.00m.			R10	CR=44% RQD=NIL
Moderately to slightly weathered, reddish brown to light grey, fine grained, fractured shale.			R11	CR=50% RQD=22%
8.50m.				

0.40 1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75 8.50

BH-54/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 24/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.54

Co-ordinates E=(-)621.000 N=625.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 20/06/2018
Completion Date : 22/06/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.360 M.
Water Struck At :
Standing Water Level : 2.08 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R12	CR=65% RQD=NIL
				9.25
			R13	CR=80% RQD=76%
				10.00
			R14	CR=73% RQD=53%
				10.75
			R15	CR=80% RQD=50%
				11.50
Moderately / slightly weathered, reddish brown to light grey, fine grained, fractured shale.			R16	CR=80% RQD=65%
				12.25
			R17	CR=70% RQD=52%
				13.00
			R18	CR=65% RQD=42%
				13.75
			R19	CR=65% RQD=62%
				14.50
			R20	CR=54% RQD=44%
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.55

Co-ordinates E=(-)563.000 N=684.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 22/07/2018
Completion Date : 23/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.480 M.
Water Struck At :
Standing Water Level : 1.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m				
Hard(N>50), brownish grey, clayey silt / silty clay with decomposed rock.(Cl)		Refusal 100 5.0 cm Pentn.	DS-1	0.50
			*SPT-1	1.00-1.05
1.50m		Refusal 100 3.0 cm Pentn. NX. drilling from 1.50m to 20.00m	*SPT-2	1.50-1.53
			R1	CR=38% RQD=NIL 1.50-2.25
			R2	CR=40% RQD=NIL 2.25-3.00
			R3	CR=36% RQD=NIL 3.00-3.75
Highly to moderately weathered, yellowish brown, fine grained, highly fractured shale.			R4	CR=35% RQD=NIL 3.75-4.50
			R5	CR=30% RQD=NIL 4.50-5.25
			R6	CR=30% RQD=NIL 5.25-6.00
			R7	CR=40% RQD=13% 6.00-6.75
			R8	CR=42% RQD=20% 6.75-7.50
7.50m				
			R9	CR=36% RQD=16% 7.50-8.25
Highly to moderately weathered, reddish brown, fine grained, moderately fractured shale.			R10	CR=44% RQD=NIL 8.25-9.00
			R11	CR=50% RQD=20% 9.00-9.75
9.75m				
Moderately to slightly weathered, reddish brown, fine grained, moderately fractured shale.			R12	CR=54% RQD=15% 9.75-10.50
10.50m				

BH-55/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.55

Co-ordinates E=(-)563.000 N=684.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 22/07/2018
Completion Date : 23/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.480 M.
Water Struck At :
Standing Water Level : 1.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
10.50m.				
			R13	CR=54% RQD=24% 11.25
			R14	CR=40% RQD=13% 12.00
			R15	CR=63% RQD=20% 12.75
			R16	CR=54% RQD=NIL 13.50
			R17	CR=60% RQD=30% 14.25
Moderately to slightly weathered, reddish brown, fine grained, moderately fractured shale.			R18	CR=48% RQD=32% 15.00
			R19	CR=55% RQD=39% 15.75
			R20	CR=63% RQD=40% 16.50
			R21	CR=65% RQD=36% 17.25
			R22	CR=72% RQD=44% 18.00
			R23	CR=70% RQD=29% 18.75
			R24	CR=68% RQD=48% 19.50
			R25	CR=70% RQD=20% 20.00
20.00m.				

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

BH-55/Sheet-2

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.56

Co-ordinates E=(-)459.000 N=717.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 03/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.100 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Very dense, brownish grey, silty sand with decomposed rock fragments.(SM) 0.70m.		100 Refusal 5.0 cm Pentn. 100 Refusal 4.0 cm Pentn. NX. drilling from 0.70m to 20.00m	DS-1 *SPT-1 *SPT-2	0.40 0.50-0.55 0.70-0.74
			R1	CR=28% RQD=NIL
			R2	CR=30% RQD=NIL
			R3	CR=32% RQD=13%
			R4	CR=30% RQD=NIL
			R5	CR=34% RQD=NIL
			R6	CR=35% RQD=16%
Highly weathered, reddish brown, fine grained, highly fractured shale.			R7	CR=38% RQD=18%
			R8	CR=40% RQD=20%
			R9	CR=38% RQD=NIL
			R10	CR=26% RQD=13%
			R11	CR=35% RQD=16%
			R12	CR=38% RQD=20%
			R13	CR=39% RQD=26%
10.50m.				

0.70 1.50 2.25 3.00 3.75 4.50 5.25 6.00 6.75 7.50 8.25 9.00 9.75 10.50

BH-56/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.56

Co-ordinates E=(-)459.000 N=717.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 03/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.100 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
10.50m.				
Highly weathered, reddish brown, fine grained, highly fractured shale.			R14	CR=40% RQD=30% 11.25
			R15	CR=38% RQD=26% 12.00
			R16	CR=32% RQD=16% 12.75
			R17	CR=36% RQD=NIL 13.50
			R18	CR=38% RQD=16% 14.25
			R19	CR=37% RQD=13% 15.00
			R20	CR=39% RQD=16% 15.75
15.75m.				
Moderately weathered, reddish brown, fine grained, highly to moderately fractured shale.			R21	CR=42% RQD=20% 16.50
			R22	CR=44% RQD=24% 17.25
			R23	CR=48% RQD=30% 18.00
18.00m.				
Moderately weathered, reddish brown, fine grained, highly to moderately fractured shale.			R24	CR=52% RQD=24% 18.75
			R25	CR=55% RQD=29% 19.50
			R26	CR=60% RQD=20% 20.00
20.00m.				

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.57

Co-ordinates E=(-)458.000 N=649.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 05/08/2018
Completion Date : 07/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.050 M.
Water Struck At :
Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, clayey silt / silty clay with decomposed rock.		Refusal 100 3.0 cm Pentn.	DS-1	0.50
			*SPT-1	0.60-0.63
0.70m.		Refusal 100 2.0 cm Pentn.	*SPT-2	0.70-0.72
		NX. drilling from 0.70m to 15.00m	R1	CR=36% RQD=NIL 0.70 / 1.25
			R2	CR=35% RQD=NIL 1.25 / 2.00
			R3	CR=33% RQD=NIL 2.00 / 2.75
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R4	CR=56% RQD=39% 2.75 / 3.50
			R5	CR=45% RQD=NIL 3.50 / 4.25
			R6	CR=44% RQD=NIL 4.25 / 5.00
			R7	CR=44% RQD=42% 5.00 / 5.75
5.75m.			R8	CR=55% RQD=40% 5.75 / 6.50
			R9	CR=55% RQD=40% 6.50 / 7.25
Moderately weathered, reddish brown, fine grained, fractured shale.			R10	CR=57% RQD=52% 7.25 / 8.00
8.50m.			R11	CR=58% RQD=54%

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.57

Co-ordinates E=(-)458.000 N=649.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 05/08/2018
Completion Date : 07/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.050 M.
Water Struck At :
Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
8.75m.				8.75
			R12	CR=48% RQD=43%
				9.50
			R13	CR=52% RQD=48%
				10.25
			R14	CR=44% RQD=40%
				11.00
			R15	CR=57% RQD=51%
Moderately weathered, reddish brown, fine grained, fractured shale.				11.75
			R16	CR=43% RQD=39%
				12.50
			R17	CR=43% RQD=23%
				13.25
			R18	CR=48% RQD=45%
				14.00
			R19	CR=50% RQD=28%
				14.50
			R20	CR=46% RQD=24%
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.58

Co-ordinates E=(-)1048.000 N=517.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 30/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 283.060 M.
Water Struck At :
Standing Water Level : 1.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
			DS-1	0.50
			DS-2	1.00
Filled up soil consists of reddish brown, silty sand with moorum. Obs. decomposed rock.		10 26 32 58	SPT-1	1.50-1.95
			DS-3	2.40
		Refusal	*SPT-2	2.60-2.65
		100 5.0 cm Pentn.		
2.80m.		100 Refusal	*SPT-3	2.80-2.84
Highly weathered, reddish brown, fine grained, highly to modeartely fractured shale.		4.0 cm Pentn. NX. drilling from 2.80m to 15.00m	R1	CR=24% RQD=NIL
3.50m.				
			R2	CR=26% RQD=13%
			R3	CR=30% RQD=16%
			R4	CR=37% RQD=20%
Highly to moderately weathered, reddish brown, fine grained, highly to modeartely fractured shale.			R5	CR=34% RQD=16%
			R6	CR=40% RQD=18%
			R7	CR=44% RQD=30%
			R8	CR=46% RQD=40%
8.50m.				

2.80
3.50
4.25
5.00
5.75
6.50
7.25
8.00

BH-58/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.58

Co-ordinates E=(-)1048.000 N=517.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 30/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 283.060 M.
Water Struck At :
Standing Water Level : 1.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
				8.75
			R9	CR=38% RQD=16%
				9.50
			R10	CR=39% RQD=26%
				10.25
			R11	CR=44% RQD=36%
				11.00
			R12	CR=52% RQD=30%
8.50m				11.75
Highly to moderately weathered, reddish brown, fine grained, highly to modeartely fractured shale.			R13	CR=54% RQD=40%
				12.50
			R14	CR=48% RQD=24%
				13.25
			R15	CR=58% RQD=40%
				14.00
			R16	CR=45% RQD=30%
15.00m				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 07/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.59

Co-ordinates E=(-)892.000 N=572.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 31/07/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.897 M.
Water Struck At :
Standing Water Level : 2.60 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of reddish brown, clayey silt to silty clay with decomposed rock fragments.		Refusal	DS-1	0.50
		100 3.0 cm Pentn.	*SPT-1	0.80-0.83
1.00m.		100 Refusal 2.0 cm Pentn.	*SPT-2	1.00-1.02
		NX. drilling from 1.00m to 15.00m	R1	CR=24% RQD=NIL
			R2	CR=25% RQD=NIL
Highly weathered, reddish brown, fine grained, fractured shale.			R3	CR=28% RQD=NIL
			R4	CR=23% RQD=NIL
			R5	CR=25% RQD=NIL
			R6	CR=24% RQD=NIL
			R7	CR=25% RQD=NIL
6.25m.			R8	CR=38% RQD=NIL
Highly weathered, reddish brown, fine grained, fractured shale.			R9	CR=32% RQD=20%
			R10	CR=31% RQD=17%
8.50m.				

1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75 8.50

BH-59/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.59

Co-ordinates E=(-)892.000 N=572.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 31/07/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.897 M.
Water Struck At :
Standing Water Level : 2.60 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
	8.50m.			
			R11	CR=33% RQD=NIL
				9.25
			R12	CR=28% RQD=21%
				10.00
			R13	CR=37% RQD=21%
				10.75
			R14	CR=36% RQD=20%
				11.50
Highly weathered, reddish brown, fine grained, fractured shale.			R15	CR=32% RQD=NIL
				12.25
			R16	CR=36% RQD=NIL
				13.00
			R17	CR=39% RQD=20%
				13.75
			R18	CR=40% RQD=NIL
				14.50
			R19	CR=24% RQD=14%
	15.00m.			15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.60

Co-ordinates E=(-)1073.000 N=375.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 09/08/2018
Completion Date : 10/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.560 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m				
Hard, brownish grey, silty clay / clayey silt with decomposed rock fragments.(Cl)		5 12 19 31	DS-1	0.50
			SPT-1	1.00-1.45
			DS-2	2.00
		Refusal		
		100 2.0 cm Pentn.	*SPT-2	2.10-2.12
2.30m		100 Refusal 2.0 cm Pentn.	*SPT-3	2.30-2.32
Highly weathered, reddish brown, fine grained, fractured shale.		NX. drilling from 2.30m to 15.00m	R1	CR=24% RQD=NIL
3.05m				3.05
Highly weathered, reddish brown, fine grained, fractured shale.			R2	CR=29% RQD=NIL
				3.80
			R3	CR=23% RQD=NIL
4.55m				4.55
			R4	CR=56% RQD=39%
				5.30
			R5	CR=52% RQD=34%
				6.05
Highly / moderately weathered, reddish brown, fine grained, fractured shale.			R6	CR=41% RQD=25%
				6.80
			R7	CR=42% RQD=27%
				7.55
			R8	CR=35% RQD=21%
8.30m				8.30
8.50m				

BH-60/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 14/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.60

Co-ordinates E=(-)1073.000 N=375.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 09/08/2018
Completion Date : 10/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.560 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R9	CR=34% RQD=NIL
				9.05
			R10	CR=32% RQD=NIL
				9.80
			R11	CR=40% RQD=NIL
				10.55
			R12	CR=36% RQD=NIL
				11.30
Highly / moderately weathered, whitish grey to greenish grey, fine grained, fractured shale.			R13	CR=40% RQD=NIL
				12.05
			R14	CR=40% RQD=NIL
				12.80
			R15	CR=27% RQD=NIL
				13.55
			R16	CR=46% RQD=NIL
				14.30
			R17	CR=26% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.61

Co-ordinates E=(-)1051.000 N=352.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	4	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	4
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 07/08/2018
Completion Date : 09/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.687 M.
Water Struck At :
Standing Water Level : 3.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m				
Hard, brownish grey, silty clay / clayey silt with decomposed rock fragments.(Cl)		6 14 18 32	DS-1	0.50
			SPT-1	1.00-1.45
		Refusal 100 2.0 cm Pentn.	*SPT-2	1.80-1.82
2.00m		Refusal 100 2.0 cm Pentn.	*SPT-3	2.00-2.02
				2.00
			R1	CR=18% RQD=NIL
Completely to highly weathered, reddish brown, fine grained, fractured shale.		Refusal 100 2.0 cm Pentn. NX. drilling from 2.00m to 15.00m	*SPT-4	2.75-2.77
				2.75
			R2	CR=21% RQD=NIL
3.50m				3.50
			R3	CR=32% RQD=NIL
				4.25
			R4	CR=27% RQD=NIL
				5.00
Highly / moderately weathered, reddish brown, fine grained, fractured shale.			R5	CR=42% RQD=NIL
				5.75
			R6	CR=27% RQD=NIL
				6.50
			R7	CR=40% RQD=NIL
				7.25
			R8	CR=65% RQD=27%
				8.00
8.50m			R9	CR=52% RQD=25%

BH-61/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.61

Co-ordinates E=(-)1051.000 N=352.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	4	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	4
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 07/08/2018
Completion Date : 09/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.687 M.
Water Struck At :
Standing Water Level : 3.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				8.75
Highly / moderately weathered, reddish brown, fine grained, fractured shale.			R10	CR=40% RQD=16%
9.50m.				9.50
			R11	CR=45% RQD=32%
				10.25
			R12	CR=35% RQD=20%
				11.00
			R13	CR=42% RQD=NIL
				11.75
Highly / moderately weathered, whitish grey to greenish grey, fine grained, fractured shale.			R14	CR=40% RQD=NIL
				12.50
			R15	CR=36% RQD=NIL
				13.25
			R16	CR=27% RQD=NIL
				14.00
			R17	CR=52% RQD=NIL
				14.50
			R18	CR=50% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.62

Co-ordinates E=(-)550.000 N=353.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 10/08/2018
Completion Date : 11/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.820 M.
Water Struck At :
Standing Water Level : 3.60 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Hard, brownish grey, silty clay with decomposed rock fragments.(Cl)		7 13 24 37	DS-1	0.50
			SPT-1	1.00-1.45
			DS-2	2.00
		Refusal 100 2.0 cm Pentr.	*SPT-2	2.10-2.12
2.20m.		Refusal 100 1.0 cm Pentr.	*SPT-3	2.20-2.21
		NX. drilling from 2.20m to 15.00m	R1	CR=28% RQD=NIL 2.20 / 2.95
			R2	CR=36% RQD=NIL 2.95 / 3.70
			R3	CR=36% RQD=NIL 3.70 / 4.45
			R4	CR=32% RQD=NIL 4.45 / 5.20
Highly / moderately weathered, reddish brown, fine grained, fractured shale.			R5	CR=31% RQD=NIL 5.20 / 5.95
			R6	CR=47% RQD=NIL 5.95 / 6.70
			R7	CR=33% RQD=NIL 6.70 / 7.45
			R8	CR=27% RQD=NIL 7.45 / 8.20
8.20m.				
Highly weathered, light greenish grey, fine grained, fractured shale.				
8.50m.				

BH-62/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 14/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.62

Co-ordinates E=(-)550.000 N=353.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 10/08/2018
Completion Date : 11/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.820 M.
Water Struck At :
Standing Water Level : 3.60 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.			R9	CR=31% RQD=NIL
				8.95
			R10	CR=32% RQD=NIL
				9.70
			R11	CR=30% RQD=NIL
				10.45
			R12	CR=27% RQD=NIL
				11.20
Highly weathered, light greenish grey, fine grained, fractured shale.			R13	CR=32% RQD=NIL
				11.95
			R14	CR=35% RQD=NIL
				12.70
			R15	CR=26% RQD=NIL
				13.45
			R16	CR=31% RQD=NIL
				14.20
			R17	CR=35% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.63

Co-ordinates E=(-)1631.000 N=858.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 07/08/2018
Completion Date : 08/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.986 M.
Water Struck At :
Standing Water Level : 4.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Very stiff, reddish brown, clayey silt with rock fragments.(Cl)			DS-1	0.50
		8 7 11 18	SPT-1	1.50-1.95
2.20m.		Refusal 100	*SPT-2	2.20-2.23
		3.0 cm Pentr.		2.20
		NX. drilling from 2.20m to 15.00m	R1	CR=60% RQD=26%
				2.95
			R2	CR=64% RQD=24%
				3.70
			R3	CR=60% RQD=53%
				4.45
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R4	CR=92% RQD=90%
				5.20
			R5	CR=85% RQD=80%
				5.95
			R6	CR=92% RQD=89%
				6.70
			R7	CR=81% RQD=78%
				7.45
			R8	CR=80% RQD=34%
				8.20
8.50m.				

BH-63/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 13/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.63

Co-ordinates E=(-)1631.000 N=858.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 07/08/2018
Completion Date : 08/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.986 M.
Water Struck At :
Standing Water Level : 4.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
	8.50m.		R9	CR=86% RQD=84% 8.95
			R10	CR=93% RQD=90% 9.70
			R11	CR=91% RQD=85% 10.45
			R12	CR=92% RQD=90% 11.20
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R13	CR=91% RQD=88% 11.95
			R14	CR=82% RQD=78% 12.70
			R15	CR=88% RQD=40% 13.45
			R16	CR=85% RQD=80% 14.20
			R17	CR=95% RQD=90% 14.60
			R18	CR=95% RQD=55% 15.00
	15.00m.			

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.64

Co-ordinates E=(-)1383.000 N=911.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	1

Commencement Date : 09/08/2018
Completion Date : 10/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.583 M.
Water Struck At :
Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Very stiff, reddish brown, silty clay with moorum.(Cl)			DS-1	0.50
			DS-2	1.00
		7 10 12 22	SPT-1	1.30-1.75
2.00m.		Refusal 100 3.0 cm Pentn.	*SPT-2	2.00-2.03
		NX. drilling from 2.00m to 15.00m	R1	CR=41% RQD=NIL
Moderately weathered, reddish brown, fine grained, highly fractured shale.			R2	CR=49% RQD=16%
			WS-1	3.20
3.50m.			R3	CR=52% RQD=23%
			R4	CR=53% RQD=NIL
			R5	CR=60% RQD=NIL
Moderately to slightly weathered / fresh, redish brown, fine grained, highly fractured shale.			R6	CR=61% RQD=17%
			R7	CR=64% RQD=NIL
			R8	CR=61% RQD=33%
8.50m.			R9	CR=53% RQD=29%

2.00 2.75 3.50 4.25 5.00 5.75 6.50 7.25 8.00

BH-64/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 14/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.64

Co-ordinates E=(-)1383.000 N=911.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	1

Commencement Date : 09/08/2018
Completion Date : 10/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.583 M.
Water Struck At :
Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
				8.75
			R10	CR=62% RQD=30%
				9.50
			R11	CR=64% RQD=23%
				10.25
			R12	CR=66% RQD=24%
				11.00
Moderately to slightly weathered / fresh, redish brown, fine grained, highly fractured shale.			R13	CR=72% RQD=27%
				11.75
			R14	CR=76% RQD=36%
				12.50
			R15	CR=78% RQD=32%
				13.25
			R16	CR=68% RQD=40%
				14.00
			R17	CR=62% RQD=38%
				14.50
			R18	CR=82% RQD=42%
				15.00

8.50m.

15.00m.

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.65

Co-ordinates E=(-)1509.000 N=1011.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 06/08/2018
Completion Date : 08/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 280.444 M.
Water Struck At :
Standing Water Level : 4.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Hard, brownish grey, silty clay with decomposed rock fragments.(Cl)		Refusal 100 4.0 cm Pentn.	DS-1	0.50
			*SPT-1	0.70-0.74
0.80m.		Refusal 100 3.0 cm Pentn.	*SPT-2	0.80-0.83
		NX. drilling from 0.80m to 15.00m	R1	CR=60% RQD=34%
			R2	CR=57% RQD=54%
			R3	CR=53% RQD=34%
			R4	CR=75% RQD=27%
Moderately to slightly weathered / fresh, reddish brown, fine grained, moderately to slightly fractured shale.			R5	CR=62% RQD=30%
			R6	CR=65% RQD=32%
			R7	CR=68% RQD=35%
			R8	CR=70% RQD=39%
			R9	CR=72% RQD=30%
			R10	CR=72% RQD=32%
8.50m.				

0.80 1.55 2.30 3.05 3.80 4.55 5.30 6.05 6.80 7.55 8.30

BH-65/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.65

Co-ordinates E=(-)1509.000 N=1011.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 06/08/2018
Completion Date : 08/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 280.444 M.
Water Struck At :
Standing Water Level : 4.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
			R11	CR=76% RQD=38%
				9.05
			R12	CR=81% RQD=35%
				9.80
			R13	CR=72% RQD=36%
				10.55
			R14	CR=75% RQD=40%
				11.30
Moderately to slightly weathered / fresh, reddish brown, fine grained, moderately to slightly fractured shale.			R15	CR=81% RQD=45%
				12.05
			R16	CR=80% RQD=48%
				12.80
			R17	CR=86% RQD=52%
				13.55
			R18	CR=90% RQD=63%
				14.30
			R19	CR=92% RQD=65%
				15.00

8.50m.

15.00m.

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.66

Co-ordinates E=(-)1369.000 N=1164.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 09/08/2018
Completion Date : 10/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 279.543 M.
Water Struck At :
Standing Water Level : 3.05 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Hard, reddish brown, silty clay with moorum & decomposed rock.(Cl)		11 14 21 35	DS-1	0.50
			SPT-1	1.00-1.45
1.80m.		Refusal 100 2.0 cm Pentr. NX. drilling from 1.80m to 15.00m	*SPT-2	1.80-1.82
			R1	CR=27% RQD=NIL 1.80 - 2.55
			R2	CR=30% RQD=NIL 2.55 - 3.30
			R3	CR=46% RQD=18% 3.30 - 4.05
			R4	CR=52% RQD=18% 4.05 - 4.80
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R5	CR=44% RQD=16% 4.80 - 5.55
			R6	CR=35% RQD=NIL 5.55 - 6.30
			R7	CR=46% RQD=NIL 6.30 - 7.05
			R8	CR=52% RQD=NIL 7.05 - 7.80
			R9	CR=54% RQD=NIL
8.50m.				

BH-66/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 14/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.66

Co-ordinates E=(-)1369.000 N=1164.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 09/08/2018
Completion Date : 10/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 279.543 M.
Water Struck At :
Standing Water Level : 3.05 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
				8.55
			R10	CR=46% RQD=20%
				9.30
			R11	CR=47% RQD=24%
8.50m. Highly to moderately weathered, reddish brown, fine grained, fractured shale.				10.05
10.05m.			R12	CR=56% RQD=27%
				10.80
			R13	CR=55% RQD=21%
				11.55
Moderately to slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R14	CR=56% RQD=27%
				12.30
			R15	CR=64% RQD=45%
				13.05
			R16	CR=80% RQD=61%
				13.80
			R17	CR=86% RQD=54%
				14.55
			R18	CR=93% RQD=85%
15.00m.				15.00

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

BH-66/Sheet-2

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.67

Co-ordinates E=(-)452.000 N=1437.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 28/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.540 M.
Water Struck At :
Standing Water Level : 2.30 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consist of reddish brown, clayey silt / silty clay with rock fragments.		Refusal 100 2.0 cm Pentn.	DS-1	0.50
		Refusal 100 2.0 cm Pentn.	*SPT-1	1.30-1.32
1.50m.		NX. drilling from 1.50m to 15.00m	*SPT-2	1.50-1.52
			R1	CR=56% RQD=NIL 1.50 - 2.25
Moderately to slightly weathered, reddish brown, fine grained, fracturted shale.			R2	CR=59% RQD=20% 2.25 - 3.00
			R3	CR=55% RQD=40% 3.00 - 3.75
			R4	CR=57% RQD=51% 3.75 - 4.50
4.50m.			R5	CR=47% RQD=NIL 4.50 - 5.25
			R6	CR=48% RQD=NIL 5.25 - 6.00
Moderately to slightly weathered, reddish brown, fine grained, fracturted shale.			R7	CR=45% RQD=24% 6.00 - 6.75
			R8	CR=50% RQD=20% 6.75 - 7.50
7.50m.			R9	CR=53% RQD=35%
Moderately to slightly weathered, reddish brown, fine grained, fracturted shale.				
8.00m.				

BH-67/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.67

Co-ordinates E=(-)452.000 N=1437.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 28/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.540 M.
Water Struck At :
Standing Water Level : 2.30 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.				8.25
			R10	CR=54% RQD=29%
				9.00
			R11	CR=56% RQD=51%
				9.75
			R12	CR=58% RQD=56%
				10.50
			R13	CR=58% RQD=30%
				11.25
Moderately to slightly weathered, reddish brown, fine grained, fracturted shale.			R14	CR=57% RQD=41%
				12.00
			R15	CR=57% RQD=27%
				12.75
			R16	CR=63% RQD=27%
				13.50
			R17	CR=66% RQD=44%
				14.25
			R18	CR=61% RQD=NIL
15.00m.				15.00

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

BH-67/Sheet-2

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.68

Co-ordinates E=(-)478.000 N=1492.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 20/07/2018
Completion Date : 21/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.214 M.
Water Struck At :
Standing Water Level : 2.85 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of reddish brown, clayey silt / silty clay with decomposed rock.			DS-1	0.50
1.00m.		Refusal 100 2.0 cm Pentn. NX. drilling from 1.00m to 15.00m	*SPT-1	1.00-1.02
			R1	CR=31% RQD=NIL
			R2	CR=32% RQD=NIL
			R3	CR=37% RQD=31%
			R4	CR=38% RQD=16%
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R5	CR=38% RQD=28%
			R6	CR=36% RQD=25%
			R7	CR=47% RQD=23%
			R8	CR=45% RQD=35%
			R9	CR=45% RQD=33%
8.00m.				

1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75

BH-68/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.68

Co-ordinates E=(-)478.000 N=1492.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 20/07/2018
Completion Date : 21/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.214 M.
Water Struck At :
Standing Water Level : 2.85 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.			R10	CR=44% RQD=NIL
				8.50
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R11	CR=45% RQD=NIL
9.25m.				9.25
			R12	CR=32% RQD=16%
				10.00
			R13	CR=47% RQD=33%
				10.75
			R14	CR=52% RQD=NIL
				11.50
Highly / moderately weathered, reddish brown, fine grained, fractured shale.			R15	CR=51% RQD=31%
				12.25
			R16	CR=47% RQD=NIL
				13.00
			R17	CR=44% RQD=20%
				13.75
			R18	CR=41% RQD=16%
				14.50
			R19	CR=38% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.69

Co-ordinates E=(-)664.000 N=1519.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 13/07/2018
Completion Date : 17/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.572 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, clayey silt to silty clay with decomposed rock fragments.			DS-1	0.50
0.80m. Highly weathered, reddish brown, fine grained, fractured shale.		100 Refusal 2.0 cm Pentn. NX. drilling from 0.80m to 15.00m	*SPT-1	0.80-0.82
			R1	CR=24% RQD=NIL
			R2	CR=23% RQD=NIL
2.25m.			R3	CR=27% RQD=NIL
			R4	CR=28% RQD=NIL
			R5	CR=30% RQD=NIL
Highly to modeartely weathered, reddish brown, fine grained, fractured shale.			R6	CR=37% RQD=33%
			R7	CR=22% RQD=NIL
			R8	CR=49% RQD=NIL
			R9	CR=41% RQD=NIL
7.50m. Moderately / slightly weathered, reddish brown, fine grained, fractured shale.			R10	CR=57% RQD=53%
8.00m.				

0.80 1.50 2.25 3.00 3.75 4.50 5.25 6.00 6.75 7.50

BH-69/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.69

Co-ordinates E=(-)664.000 N=1519.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 13/07/2018
Completion Date : 17/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.572 M.
Water Struck At :
Standing Water Level : 2.90 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.				8.25
			R11	CR=61% RQD=59%
				9.00
			R12	CR=62% RQD=60%
				9.75
			R13	CR=66% RQD=64%
Moderately / slightly weathered, reddish brown, fine grained, fractured shale.				10.50
			R14	CR=66% RQD=62%
				11.25
			R15	CR=65% RQD=61%
				12.00
			R16	CR=54% RQD=52%
12.50m.				12.50

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.70

Co-ordinates E=(-)521.000 N=1608.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 22/07/2018
Completion Date : 25/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.678 M.
Water Struck At :
Standing Water Level : 2.30 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	Depth (m)
0.00m.				
Filled up soil consist of reddish brown, clayey silt to silty clay with decomposed rock.			DS-1	0.50
1.00m.		Refusal 100 2.0 cm Pentn.	*SPT-1	1.00-1.02
		NX. drilling from 1.00m to 15.00m	R1	CR=25% RQD=NIL
			R2	CR=38% RQD=24%
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R3	CR=41% RQD=29%
			R4	CR=42% RQD=40%
			R5	CR=45% RQD=41%
4.75m.			R6	CR=57% RQD=17%
Moderately weathered, reddish brown, fine grained, fractured shale.			R7	CR=58% RQD=40%
6.25m.			R8	CR=65% RQD=19%
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R9	CR=61% RQD=58%
8.00m.				

1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75

BH-70/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.70

Co-ordinates E=(-)521.000 N=1608.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 22/07/2018
Completion Date : 25/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.678 M.
Water Struck At :
Standing Water Level : 2.30 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.			R10	CR=70% RQD=42%
				8.50
			R11	CR=61% RQD=56%
				9.25
			R12	CR=68% RQD=33%
				10.00
			R13	CR=61% RQD=53%
				10.75
			R14	CR=61% RQD=NIL
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.				11.50
			R15	CR=68% RQD=28%
				12.25
			R16	CR=84% RQD=80%
				13.00
			R17	CR=85% RQD=58%
				13.75
			R18	CR=81% RQD=64%
				14.50
			R19	CR=82% RQD=77%
15.00m.				15.00

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

BH-70/Sheet-2

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.71

Co-ordinates E=(-)460.000 N=1609.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 17/07/2018
Completion Date : 19/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.368 M.
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Hard (N>50), reddish brown, clayey silt to silty clay with decomposed rock.(Cl)			DS-1	0.50
			DS-2	1.00
		12 22 30 52 Refusal	SPT-1	1.40-1.85
		100 4.0 cm Pentn.	*SPT-2	2.10-2.14
2.30m.		100 Refusal 4.0 cm Pentn.	*SPT-3	2.30-2.34
		NX. drilling from 2.30m to 20.00m	R1	CR=30% RQD=NIL
			R2	CR=28% RQD=NIL
			R3	CR=30% RQD=NIL
			R4	CR=30% RQD=28%
			R5	CR=28% RQD=26%
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R6	CR=30% RQD=20%
			R7	CR=32% RQD=30%
			R8	CR=40% RQD=38%
			R9	CR=34% RQD=22%
			R10	CR=29% RQD=20%
			R11	CR=27% RQD=NIL
10.50m.				

2.30 3.00 3.75 4.50 5.25 6.00 6.75 7.50 8.25 9.00 9.75 10.50

BH-71/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.71

Co-ordinates E=(-)460.000 N=1609.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	3
		Water Sample (WS)	0

Commencement Date : 17/07/2018
Completion Date : 19/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.368 M.
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
10.50m.				
			R12	CR=24% RQD=NIL
				11.25
			R13	CR=32% RQD=29%
				12.00
			R14	CR=27% RQD=17%
				12.75
			R15	CR=24% RQD=23%
				13.50
			R16	CR=33% RQD=30%
				14.25
			R17	CR=40% RQD=37%
				15.00
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R18	CR=38% RQD=36%
				15.75
			R19	CR=29% RQD=19%
				16.50
			R20	CR=49% RQD=16%
				17.25
			R21	CR=44% RQD=16%
				18.00
			R22	CR=46% RQD=16%
				18.75
			R23	CR=52% RQD=NIL
				19.50
			R24	CR=48% RQD=NIL
20.00m.				20.00

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

BH-71/Sheet-2

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.72

Co-ordinates E=(-)404.000 N=1626.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 21/07/2018
Completion Date : 23/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.280 M.
Water Struck At :
Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consist of reddish brown, clayey silt to silty clay with decomposed rock.			DS-1	0.50
1.00m.		Refusal 100 2.0 cm Pentn.	*SPT-1	1.00-1.02
		NX. drilling from 1.00m to 15.00m	R1	CR=27% RQD=NIL
			R2	CR=37% RQD=19%
			R3	CR=39% RQD=24%
			R4	CR=40% RQD=37%
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R5	CR=39% RQD=32%
			R6	CR=43% RQD=32%
			R7	CR=47% RQD=35%
			R8	CR=44% RQD=NIL
			R9	CR=51% RQD=28%
8.00m.				

1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75

BH-72/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 01/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.72

Co-ordinates E=(-)404.000 N=1626.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 21/07/2018
Completion Date : 23/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.280 M.
Water Struck At :
Standing Water Level : 2.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.			R10	CR=48% RQD=45%
				8.50
			R11	CR=51% RQD=28%
				9.25
			R12	CR=49% RQD=19%
				10.00
			R13	CR=52% RQD=19%
				10.75
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R14	CR=44% RQD=36%
				11.50
			R15	CR=44% RQD=41%
				12.25
			R16	CR=59% RQD=56%
				13.00
			R17	CR=55% RQD=49%
				13.75
			R18	CR=52% RQD=NIL
				14.50
			R19	CR=48% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.73

Co-ordinates E=(-)339.000 N=1602.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 24/07/2018
Completion Date : 27/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.420 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consist of reddish brown, clayey silt to silty clay with decomposed rock.			DS-1	0.50
1.00m.		Refusal 100 3.0 cm Pentn.	*SPT-1	1.00-1.03
		NX. drilling from 1.00m to 15.00m	R1	CR=32% RQD=21%
			R2	CR=40% RQD=NIL
			R3	CR=27% RQD=15%
			R4	CR=31% RQD=24%
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R5	CR=43% RQD=40%
			R6	CR=53% RQD=47%
			R7	CR=43% RQD=40%
			R8	CR=45% RQD=21%
			R9	CR=41% RQD=25%
8.00m.				

1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75

BH-73/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.73

Co-ordinates E=(-)339.000 N=1602.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 24/07/2018
Completion Date : 27/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.420 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.			R10	CR=47% RQD=32% 8.50
			R11	CR=59% RQD=32% 9.25
			R12	CR=58% RQD=45% 10.00
			R13	CR=41% RQD=32% 10.75
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R14	CR=55% RQD=45% 11.50
			R15	CR=51% RQD=48% 12.25
			R16	CR=49% RQD=47% 13.00
			R17	CR=47% RQD=44% 13.75
			R18	CR=59% RQD=55% 14.50
			R19	CR=42% RQD=26% 15.00
15.00m.				

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.74

Co-ordinates E=(-)348.000 N=1658.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 25/07/2018
Completion Date : 28/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.270 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of reddish brown, clayey silt / silty clay with decomposed rock fragments.		Refusal 100 3.0 cm Pentn.	DS-1	0.50
			*SPT-1	0.90-0.93
1.00m.		Refusal 100 2.0 cm Pentn.	*SPT-2	1.00-1.02
		NX. drilling from 1.00m to 15.00m	R1	CR=31% RQD=NIL 1.00 - 1.75
Highly to modeartely weathered, reddish brown, fine grained, fractured shale.			R2	CR=36% RQD=NIL 1.75 - 2.50
			R3	CR=36% RQD=25% 2.50 - 3.25
			R4	CR=48% RQD=45% 3.25 - 4.00
4.00m.			R5	CR=56% RQD=53% 4.00 - 4.75
			R6	CR=59% RQD=57% 4.75 - 5.50
Modeartely weathered, reddish brown, fine grained, fractured shale.			R7	CR=53% RQD=52% 5.50 - 6.25
			R8	CR=50% RQD=40% 6.25 - 7.00
			R9	CR=53% RQD=45% 7.00 - 7.75
8.00m.				

BH-74/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.74

Co-ordinates E=(-)348.000 N=1658.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 25/07/2018
Completion Date : 28/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.270 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.			R10	CR=54% RQD=40%
				8.50
			R11	CR=56% RQD=34%
				9.25
			R12	CR=53% RQD=46%
				10.00
			R13	CR=47% RQD=40%
				10.75
Modeartely weathered, reddish brown, fine grained, fractured shale.			R14	CR=57% RQD=53%
				11.50
			R15	CR=52% RQD=44%
				12.25
			R16	CR=51% RQD=36%
				13.00
			R17	CR=54% RQD=45%
				13.75
			R18	CR=57% RQD=49%
				14.50
			R19	CR=44% RQD=40%
15.00m.				15.00

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

BH-74/Sheet-2

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.75

Co-ordinates E=(-)540.000 N=1850.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	4	Undisturbed (UDS)	1
Cone (Pc)		Penetrometer (SPT)	4
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.640 M.
Water Struck At :
Standing Water Level : 4.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m				
			DS-1	0.50
		7 11 13 (24)	SPT-1	1.00-1.45
Very stiff, reddish brown to dark greyish brown, clayey silt / silty clay.(Cl)			UDS-1	2.00-2.45
		8 10 12 (22)	SPT-2	2.45-2.90
			DS-2	3.50
		16 18 34 (52)	SPT-3	4.00-4.45
4.00m				
Hard (N>50), reddish brown to dark greyish brown, clayey silt / silty clay.(Cl)		Refusal		
4.70m		100	*SPT-4	4.70-4.72
		2.0 cm Pentn.		4.70
		NX. drilling from 4.70m to 15.00m	R1	CR=40% RQD=NIL
				5.45
Moderately / slightly weathered, reddish brown, fine grained, fractured shale.			R2	CR=64% RQD=NIL
				6.20
			R3	CR=52% RQD=NIL
6.95m				6.95
			R4	CR=71% RQD=NIL
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.				7.70
			R5	CR=60% RQD=NIL
				8.45
8.50m				

BH-75/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.75

Co-ordinates E=(-)540.000 N=1850.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	4	Undisturbed (UDS)	1
Cone (Pc)		Penetrometer (SPT)	4
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 02/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.640 M.
Water Struck At :
Standing Water Level : 4.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R6	CR=71% RQD=NIL
				9.20
			R7	CR=68% RQD=35%
				9.95
			R8	CR=65% RQD=NIL
				10.70
			R9	CR=84% RQD=69%
				11.45
			R10	CR=92% RQD=75%
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.				12.20
			R11	CR=75% RQD=51%
				12.95
			R12	CR=91% RQD=86%
				13.70
			R13	CR=92% RQD=89%
				14.45
			R14	CR=88% RQD=73%
				15.20
			R15	CR=93% RQD=67%
15.95m.				15.95

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.76

Co-ordinates E=(-)308.000 N=1849.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 30/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.190 M.
Water Struck At :
Standing Water Level : 2.30 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Hard, reddish brown, clayey silt with rock fragments.(Cl)		7 14 17 31	DS-1	0.50
			SPT-1	1.50-1.95
2.50m.		Refusal 100	*SPT-2	2.50-2.54
Slightly weathered / fresh, reddish brown, fine grained, fractured shale.		4.0 cm Pentn. NX. drilling from 2.50m to 15.00m	R1	CR=68% RQD=55% 2.50 - 3.25
			R2	CR=78% RQD=53% 3.25 - 4.00
			R3	CR=84% RQD=80% 4.00 - 4.75
			R4	CR=93% RQD=NIL 4.75 - 5.50
			R5	CR=81% RQD=19% 5.50 - 6.25
			R6	CR=80% RQD=31% 6.25 - 7.00
			R7	CR=90% RQD=88% 7.00 - 7.75
			R8	CR=90% RQD=72% 7.75 - 8.50
8.50m.				

BH-76/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.76

Co-ordinates E=(-)308.000 N=1849.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 30/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.190 M.
Water Struck At :
Standing Water Level : 2.30 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R9	CR=61% RQD=40%
				9.25
			R10	CR=68% RQD=NIL
				10.00
			R11	CR=63% RQD=45%
				10.75
			R12	CR=61% RQD=32%
				11.50
Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R13	CR=61% RQD=NIL
				12.25
			R14	CR=65% RQD=NIL
				13.00
			R15	CR=70% RQD=54%
				13.75
			R16	CR=72% RQD=40%
				14.50
			R17	CR=78% RQD=38%
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.77

Co-ordinates E=(-)165.000 N=1808.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 03/08/2018
Completion Date : 03/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.260 M.
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up with greyish brown, concrete material. 0.50m.		Refusal 100 3.0 cm Pentn. NX. drilling from 0.50m to 10.00m	*SPT-1	0.50-0.53 0.50
Slightly weathered to fresh, reddish brown, fine grained, fractured shale. 9.25m.			R1	CR=80% RQD=53% 1.25
			R2	CR=78% RQD=61% 2.00
			R3	CR=89% RQD=71% 2.75
			R4	CR=84% RQD=64% 3.50
			R5	CR=81% RQD=33% 4.25
			R6	CR=90% RQD=72% 5.00
			R7	CR=84% RQD=55% 5.75
			R8	CR=91% RQD=69% 6.50
			R9	CR=88% RQD=60% 7.25
			R10	CR=88% RQD=83% 8.00
			R11	CR=85% RQD=60% 8.75
			R12	CR=92% RQD=74% 9.25

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

BH-77/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.78

Co-ordinates E=170.000 N=1814.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 04/08/2018
Completion Date : 05/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.278 M.
Water Struck At :
Standing Water Level : 3.28 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consist of concrete material & reddish brown, clayey silt with rock fragments.		Refusal	DS-1	0.40
		100 5.0 cm Pentn.	*SPT-1	0.60-0.65
0.70m.		100 Refusal 2.0 cm Pentn.	*SPT-2	0.70-0.72
		NX. drilling from 0.70m to 10.00m	R1	CR=70% RQD=27% 0.70 - 1.25
			R2	CR=64% RQD=NIL 1.25 - 2.00
			R3	CR=60% RQD=NIL 2.00 - 2.75
			R4	CR=75% RQD=NIL 2.75 - 3.50
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R5	CR=61% RQD=NIL 3.50 - 4.25
			R6	CR=61% RQD=NIL 4.25 - 5.00
			R7	CR=68% RQD=51% 5.00 - 5.75
			R8	CR=85% RQD=61% 5.75 - 6.50
6.50m.			R9	CR=76% RQD=70% 6.50 - 7.25
			R10	CR=79% RQD=52% 7.25 - 8.00
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R11	CR=86% RQD=67% 8.00 - 8.75
			R12	CR=96% RQD=85% 8.75 - 9.50
			R13	CR=92% RQD=90% 9.50 - 10.00
10.00m.				

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

BH-78/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.79

Co-ordinates E=(-)131.000 N=1726.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 29/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.057 M.
Water Struck At :
Standing Water Level : 2.75 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of greyish brown, concrete material.			DS-1	0.50
0.90m.		Refusal 100 5.0 cm Pentn. NX. drilling from 0.90m to 15.00m	*SPT-1	0.90-0.95
			R1	CR=56% RQD=43%
			R2	CR=60% RQD=NIL
			R3	CR=60% RQD=23%
			R4	CR=60% RQD=NIL
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R5	CR=75% RQD=51%
			R6	CR=80% RQD=71%
			R7	CR=77% RQD=28%
			R8	CR=71% RQD=53%
			R9	CR=72% RQD=64%
7.65m. Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R10	CR=85% RQD=37%
8.50m.				

0.90 1.65 2.40 3.15 3.90 4.65 5.40 6.15 6.90 7.65 8.40

BH-79/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.79

Co-ordinates E=(-)131.000 N=1726.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 28/07/2018
Completion Date : 29/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.057 M.
Water Struck At :
Standing Water Level : 2.75 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.50m.				
			R11	CR=84% RQD=29%
				9.15
			R12	CR=88% RQD=82%
				9.90
			R13	CR=85% RQD=69%
				10.65
			R14	CR=80% RQD=38%
				11.40
Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R15	CR=82% RQD=73%
				12.15
			R16	CR=81% RQD=77%
				12.90
			R17	CR=93% RQD=89%
				13.65
			R18	CR=93% RQD=72%
				14.40
			R19	CR=85% RQD=66%
				15.15
			R20	CR=81% RQD=65%
				15.90
			R21	CR=73% RQD=61%
16.50m.				16.50

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

BH-79/Sheet-2

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 13/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.80

Co-ordinates E=(-)142.000 N=1660.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 03/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.800 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up with dark brown / grey, bituminious material.			DS-1	0.40
0.60m.		Refusal 100 4.0 cm Pentn. NX. drilling from 0.60m to 15.00m	*SPT-1	0.60-0.64
			R1	CR=55% RQD=NIL
			R2	CR=60% RQD=16%
			R3	CR=61% RQD=NIL
			R4	CR=68% RQD=NIL
Moderately / slightly weathered, reddish brown to greyish brown, fine grained, fractured shale.			R5	CR=68% RQD=NIL
			R6	CR=61% RQD=NIL
			R7	CR=71% RQD=43%
			R8	CR=63% RQD=15%
			R9	CR=68% RQD=29%
			R10	CR=68% RQD=37%
8.50m.			R11	CR=65% RQD=39%

0.60 1.35 2.10 2.85 3.60 4.35 5.10 5.85 6.60 7.35 8.10

BH-80/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 13/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.80

Co-ordinates E=(-)142.000 N=1660.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 01/08/2018
Completion Date : 03/08/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 281.800 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
	8.50m.			8.85
			R12	CR=64% RQD=NIL
				9.60
			R13	CR=60% RQD=35%
				10.35
			R14	CR=59% RQD=31%
				11.10
Moderately / slightly weathered, reddish brown to greyish brown, fine grained, fractured shale.			R15	CR=59% RQD=31%
				11.85
			R16	CR=51% RQD=NIL
				12.60
			R17	CR=47% RQD=NIL
				13.35
			R18	CR=52% RQD=NIL
				14.10
			R19	CR=60% RQD=NIL
				14.60
			R20	CR=60% RQD=NIL
	15.00m.			15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.81

Co-ordinates E=(-)48.000 N=1615.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 25/07/2018
Completion Date : 26/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.400 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Hard (N>50), reddish brown, clayey silt with rock fragments.(Cl)			DS-1	0.20
0.40m.		Refusal 100	*SPT-1	0.40-0.42
		2.0 cm Pentn.		0.40
		NX. drilling from 0.40m to 15.00m	R1	CR=51% RQD=NIL
				1.15
			R2	CR=55% RQD=NIL
				1.90
			R3	CR=66% RQD=45%
				2.65
Moderately to slightly weathered, reddish to greyish brown, fine grained, fractured shale.			R4	CR=65% RQD=NIL
				3.40
			R5	CR=73% RQD=27%
				4.15
			R6	CR=61% RQD=NIL
				4.90
			R7	CR=76% RQD=44%
				5.65
			R8	CR=77% RQD=36%
				6.40
			R9	CR=72% RQD=NIL
				7.15
			R10	CR=75% RQD=58%
8.00m.				7.90

BH-81/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.81

Co-ordinates E=(-)48.000 N=1615.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 25/07/2018
Completion Date : 26/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.400 M.
Water Struck At :
Standing Water Level : 2.40 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
8.00m.				
			R11	CR=66% RQD=30%
				8.65
			R12	CR=66% RQD=57%
				9.40
Moderately to slightly weathered, reddish to greyish brown, fine grained, fractured shale.			R13	CR=66% RQD=37%
				10.15
			R14	CR=69% RQD=66%
				10.90
			R15	CR=78% RQD=58%
				11.65
			R16	CR=72% RQD=48%
12.40m.				12.40
			R17	CR=46% RQD=NIL
				13.15
			R18	CR=48% RQD=NIL
Moderately to slightly weathered, greyish brown, fine grained, fractured shale.				13.90
			R19	CR=45% RQD=NIL
				14.45
			R20	CR=42% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.82

Co-ordinates E=40.000 N=1663.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 27/07/2018
Completion Date : 28/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.080 M.
Water Struck At :
Standing Water Level : 2.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Hard (N>50), reddish brown, clayey silt with decomposed rock fragments(Cl) 0.40m.		Refusal 100 3.0 cm Pentn. NX. drilling from 0.40m to 15.00m	DS-1	0.20
			*SPT-1	0.40-0.43
			R1	CR=56% RQD=20%
			R2	CR=60% RQD=NIL
			R3	CR=72% RQD=53%
Moderately to slightly weathered, reddish to greyish brown, fine grained, fractured shale.			R4	CR=69% RQD=13%
			R5	CR=73% RQD=49%
			R6	CR=72% RQD=58%
			R7	CR=60% RQD=26%
			R8	CR=72% RQD=32%
			R9	CR=73% RQD=48%
			R10	CR=72% RQD=61%
8.00m.				

0.40
1.15
1.90
2.65
3.40
4.15
4.90
5.65
6.40
7.15
7.90

BH-82/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 01/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.82

Co-ordinates E=40.000 N=1663.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 27/07/2018
Completion Date : 28/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.080 M.
Water Struck At :
Standing Water Level : 2.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
				8.00m.
			R11	CR=66% RQD=52%
				8.65
			R12	CR=69% RQD=35%
				9.40
			R13	CR=65% RQD=NIL
				10.15
Moderately to slightly weathered, reddish to greyish brown, fine grained, fractured shale.			R14	CR=60% RQD=28%
				10.90
			R15	CR=68% RQD=13%
				11.65
			R16	CR=55% RQD=NIL
				12.40
			R17	CR=56% RQD=NIL
				13.15
13.15m.			R18	CR=44% RQD=NIL
				13.90
Moderately weathered, reddish to greyish brown, fine grained, fractured shale.			R19	CR=53% RQD=NIL
				14.45
			R20	CR=49% RQD=NIL
15.00m.				15.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.83

Co-ordinates E=161.000 N=1621.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	0	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	0
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 30/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.130 M.
Water Struck At :
Standing Water Level : 2.25 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.		NX. drilling from 0.00m to 15.00m		0.00
			R1	CR=60% RQD=NIL
				0.75
			R2	CR=61% RQD=46%
				1.50
			R3	CR=61% RQD=15%
				2.25
			R4	CR=63% RQD=51%
				3.00
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R5	CR=64% RQD=23%
				3.75
			R6	CR=60% RQD=37%
				4.50
			R7	CR=65% RQD=NIL
				5.25
			R8	CR=61% RQD=33%
				6.00
			R9	CR=69% RQD=27%
				6.75
			R10	CR=61% RQD=48%
				7.50
			R11	CR=77% RQD=60%
				8.25
8.50m.				

BH-83/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 07/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.83

Co-ordinates E=161.000 N=161.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	0	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	0
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 30/07/2018
Completion Date : 31/07/2018
Bore Hole Diameter : 150 mm./ N.X
Level Of Ground : 282.130 M.
Water Struck At :
Standing Water Level : 2.25 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
	8.50m.		R12	CR=67% RQD=25%
				9.00
			R13	CR=75% RQD=33%
				9.75
			R14	CR=61% RQD=NIL
				10.50
			R15	CR=64% RQD=13%
				11.25
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R16	CR=88% RQD=48%
				12.00
			R17	CR=92% RQD=61%
				12.75
			R18	CR=85% RQD=28%
				13.50
			R19	CR=89% RQD=21%
				14.25
			R20	CR=93% RQD=27%
	15.00m.			15.00

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-1(Main) | Co-ordinates E=(-)594.000 N=1311.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 16/07/2018
Completion Date : 18/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 283.460 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m 0.10m. Filled up soil consist of reddish brown, decomposed rock fragments.		100 Refusal 2.0 cm Pentn. NX. drilling from 0.10m to 13.50m	*SPT-1	0.10-0.12 0.10
			R1	CR=50% RQD=46% 0.75
			R2	CR=64% RQD=40% 1.50
			R3	CR=79% RQD=73% 2.25
			R4	CR=78% RQD=72% 3.00
			R5	CR=77% RQD=72% 3.75
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R6	CR=61% RQD=NIL 4.50
			R7	CR=72% RQD=49% 5.25
			R8	CR=81% RQD=76% 6.00
			R9	CR=93% RQD=90% 6.75
			R10	CR=90% RQD=86% 7.50
			R11	CR=52% RQD=NIL 8.25
8.25m.			R12	CR=68% RQD=58% 9.00
			R13	CR=74% RQD=66% 9.75
			R14	CR=88% RQD=53% 10.50
Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R15	CR=84% RQD=61% 11.25
			R16	CR=84% RQD=65% 12.00
			R17	CR=76% RQD=60% 12.75
			R18	CR=79% RQD=66% 13.50
13.50m.				

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

BH-1/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 14/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-1 (Receiver-1)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 18/07/2018
Completion Date : 22/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 283.460 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Filled up soil consists of reddish brown, 0.10m. decomnposed rock fragments.		100 Refusal 3.0 cm Pentn.	*SPT-1	0.10-0.13 0.10
		NX. drilling from 0.10m to 13.50m	R1	CR=44% RQD=40% 0.75
			R2	CR=43% RQD=21% 1.50
			R3	CR=49% RQD=NIL 2.25
			R4	CR=44% RQD=42% 3.00
			R5	CR=50% RQD=42% 3.75
			R6	CR=47% RQD=32% 4.50
			R7	CR=43% RQD=15% 5.25
			R8	CR=56% RQD=42% 6.00
			R9	CR=48% RQD=45% 6.75
Moderately weathered, reddish brown, fine grained, fractured shale.			R10	CR=41% RQD=NIL 7.50
			R11	CR=44% RQD=24% 8.25
			R12	CR=42% RQD=20% 9.00
			R13	CR=41% RQD=NIL 9.75
			R14	CR=45% RQD=18% 10.50
			R15	CR=46% RQD=30% 11.25
			R16	CR=49% RQD=NIL 12.00
			R17	CR=45% RQD=NIL 12.75
			R18	CR=56% RQD=16% 13.50
13.50m.				

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

BH-1001/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-1 (Receiver-2)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 22/07/2018
Completion Date : 25/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 283.460 M
Water Struck At :
Standing Water Level : 3.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up with brick bats, road materials.		Refusal 100 3.0 cm Pentn.	DS-1	0.50
			*SPT-1	1.30-1.33
1.50m.		Refusal 100 2.0 cm Pentn.	*SPT-2	1.50-1.52
		NX. drilling from 1.50m to 13.50m	R1	CR=44% RQD=NIL 2.25
			R2	CR=58% RQD=25% 3.00
Moderately weathered, reddish brown, fine grained, fractured shale.			R3	CR=51% RQD=39% 3.75
			R4	CR=53% RQD=20% 4.50
			R5	CR=54% RQD=52% 5.25
			R6	CR=53% RQD=43% 6.00
6.00m.			R7	CR=60% RQD=44% 6.75
			R8	CR=66% RQD=64% 7.50
			R9	CR=62% RQD=20% 8.25
			R10	CR=61% RQD=58% 9.00
Moderately to slightly weathered, whitish grey to reddish brown, fine grained, fractured shale.			R11	CR=66% RQD=53% 9.75
			R12	CR=63% RQD=52% 10.50
			R13	CR=70% RQD=67% 11.25
			R14	CR=69% RQD=20% 12.00
			R15	CR=73% RQD=69% 12.75
			R16	CR=70% RQD=68% 13.50
13.50m.				

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

BH-1002/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 26/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST- 2(Main) | Co-ordinates E=(-)660.000 N=1253.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 18/07/2018
Completion Date : 19/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.482 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Reddish brown, clayey silt with decomposed rock fragments.(Cl) 0.50m		Refusal 100 3.0 cm Pentn. NX. drilling from 0.50m to 13.50m	DS-1	0.30
			*SPT-1	0.50-0.53 0.50
			R1	CR=45% RQD=NIL 1.25
Moderately weathered, reddish brown, fine grained, fractured shale.			R2	CR=46% RQD=37% 2.00
			R3	CR=48% RQD=45% 2.75
2.75m			R4	CR=54% RQD=49% 3.50
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R5	CR=75% RQD=66% 4.25
			R6	CR=72% RQD=42% 5.00
			R7	CR=72% RQD=55% 5.75
5.75m			R8	CR=86% RQD=60% 6.50
			R9	CR=89% RQD=66% 7.25
			R10	CR=81% RQD=19% 8.00
			R11	CR=88% RQD=85% 8.75
			R12	CR=96% RQD=72% 9.50
Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R13	CR=95% RQD=90% 10.25
			R14	CR=93% RQD=45% 11.00
			R15	CR=96% RQD=90% 11.75
			R16	CR=97% RQD=84% 12.50
			R17	CR=68% RQD=26% 13.00
13.50m			R18	CR=66% RQD=NIL 13.50

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

BH-2/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 26/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-2 (Receiver-1)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 19/07/2018
Completion Date : 20/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.482 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Reddish brown, clayey silt with decomposed rock fragments.(Cl) 0.50m.		100 Refusal 3.0 cm Pentn. NX. drilling from 0.50m to 13.50m	DS-1	0.30
			*SPT-1	0.50-0.53
			R1	CR=71% RQD=NIL 0.50 - 1.25
			R2	CR=69% RQD=43% 1.25 - 2.00
			R3	CR=76% RQD=46% 2.00 - 2.75
			R4	CR=61% RQD=36% 2.75 - 3.50
			R5	CR=70% RQD=36% 3.50 - 4.25
			R6	CR=78% RQD=20% 4.25 - 5.00
			R7	CR=90% RQD=48% 5.00 - 5.75
			R8	CR=90% RQD=66% 5.75 - 6.50
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R9	CR=80% RQD=33% 6.50 - 7.25
			R10	CR=88% RQD=26% 7.25 - 8.00
			R11	CR=88% RQD=48% 8.00 - 8.75
			R12	CR=89% RQD=16% 8.75 - 9.50
			R13	CR=90% RQD=26% 9.50 - 10.25
			R14	CR=88% RQD=20% 10.25 - 11.00
			R15	CR=86% RQD=38% 11.00 - 11.75
			R16	CR=88% RQD=40% 11.75 - 12.50
			R17	CR=81% RQD=NIL 12.50 - 13.00
			R18	CR=80% RQD=NIL 13.00 - 13.50
13.50m.				

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

BH-2001/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-2 (Receiver-2)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 21/07/2018
Completion Date : 22/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.482 M.
Water Struck At :
Standing Water Level : 3.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Reddish brown, clayey silt with decomposed rock fragments.(Cl) 0.50m.		Refusal 100	DS-1	0.30
		2.0 cm Pentr.	*SPT-1	0.50-0.52
		NX. drilling from 0.50m to 13.50m	R1	CR=73% RQD=29% 1.25
			R2	CR=74% RQD=58% 2.00
			R3	CR=73% RQD=65% 2.75
			R4	CR=72% RQD=46% 3.50
			R5	CR=89% RQD=19% 4.25
			R6	CR=84% RQD=19% 5.00
			R7	CR=82% RQD=NIL 5.75
			R8	CR=84% RQD=NIL 6.50
Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R9	CR=88% RQD=13% 7.25
			R10	CR=85% RQD=16% 8.00
			R11	CR=86% RQD=13% 8.75
			R12	CR=88% RQD=NIL 9.50
			R13	CR=84% RQD=NIL 10.25
			R14	CR=89% RQD=19% 11.00
			R15	CR=88% RQD=13% 11.75
			R16	CR=90% RQD=NIL 12.50
			R17	CR=76% RQD=NIL 13.00
			R18	CR=80% RQD=NIL 13.50
13.50m.				

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

BH-2002/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST- 3(Main) | Co-ordinates E=(-)709.000 N=1150.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 24/07/2018
Completion Date : 25/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.480 M.
Water Struck At :
Standing Water Level : 5.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, silty clay with rock fragments. 0.50m.		100 Refusal 2.0 cm Pentn. NX. drilling from 0.50m to 13.50m	*SPT-1	0.50-0.52 0.50
			R1	CR=56% RQD=NIL 1.25
			R2	CR=60% RQD=NIL 2.00
			R3	CR=67% RQD=NIL 2.75
			R4	CR=69% RQD=NIL 3.50
			R5	CR=61% RQD=13% 4.25
			R6	CR=68% RQD=NIL 5.00
			R7	CR=61% RQD=NIL 5.75
			R8	CR=59% RQD=17% 6.50
Moderately to slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R9	CR=65% RQD=48% 7.25
			R10	CR=72% RQD=NIL 8.00
			R11	CR=57% RQD=NIL 8.75
			R12	CR=71% RQD=44% 9.50
			R13	CR=68% RQD=NIL 10.25
			R14	CR=72% RQD=19% 11.00
			R15	CR=74% RQD=20% 11.75
			R16	CR=69% RQD=41% 12.50
			R17	CR=84% RQD=40% 13.00
			R18	CR=70% RQD=68% 13.50
13.50m. N.B. - '*' means sample could not be recovered.				

BH-3/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-3 (Receiver-1)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 25/07/2018
Completion Date : 26/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.480 m.
Water Struck At :
Standing Water Level : 4.95 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, silty clay with rock fragments. 0.50m.				
		100 Refusal 3.0 cm Pentn. NX. drilling from 0.50m to 13.50m	*SPT-1	0.50-0.53 0.50
			R1	CR=57% RQD=NIL 1.25
			R2	CR=60% RQD=NIL 2.00
			R3	CR=56% RQD=NIL 2.75
			R4	CR=61% RQD=15% 3.50
			R5	CR=69% RQD=13% 4.25
			R6	CR=67% RQD=16% 5.00
			R7	CR=75% RQD=13% 5.75
			R8	CR=65% RQD=NIL 6.50
Moderately to slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R9	CR=63% RQD=NIL 7.25
			R10	CR=64% RQD=NIL 8.00
			R11	CR=67% RQD=19% 8.75
			R12	CR=72% RQD=16% 9.50
			R13	CR=77% RQD=36% 10.25
			R14	CR=64% RQD=15% 11.00
			R15	CR=84% RQD=13% 11.75
			R16	CR=80% RQD=NIL 12.50
			R17	CR=82% RQD=46% 13.00
			R18	CR=80% RQD=52% 13.50
13.50m.				

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

BH-3001/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-3 (Receiver-2)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 26/07/2018
Completion Date : 27/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.480 M.
Water Struck At :
Standing Water Level : 5.05 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, silty clay with rock fragments. 0.60m.		Refusal 100 3.0 cm Pentn. NX. drilling from 0.60m to 13.50m	*SPT-1	0.60-0.63 0.60
			R1	CR=75% RQD=NIL 1.25
			R2	CR=69% RQD=NIL 2.00
			R3	CR=63% RQD=NIL 2.75
			R4	CR=71% RQD=NIL 3.50
			R5	CR=67% RQD=NIL 4.25
			R6	CR=69% RQD=15% 5.00
			R7	CR=71% RQD=25% 5.75
			R8	CR=81% RQD=56% 6.50
Slightly weatherd to fresh, reddish brown, fine grained, fractured shale.			R9	CR=85% RQD=NIL 7.25
			R10	CR=73% RQD=24% 8.00
			R11	CR=71% RQD=59% 8.75
			R12	CR=65% RQD=33% 9.50
			R13	CR=64% RQD=37% 10.25
			R14	CR=73% RQD=13% 11.00
			R15	CR=76% RQD=49% 11.75
			R16	CR=64% RQD=33% 12.50
			R17	CR=60% RQD=24% 13.00
			R18	CR=62% RQD=NIL 13.50
13.50m. N.B. - '*' means sample could not be recovered.				

BH-3002/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 26/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST- 4(Main) | Co-ordinates E=(-)697.000 N=867.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 15/07/2018
Completion Date : 18/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 281.520 M.
Water Struck At :
Standing Water Level : 4.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of brownish grey, silty clay / clayey silt with rock fragments. 0.40m.		50 Refusal 4.0 cm Pentn. 50 Refusal 3.0 cm Pentn. NX. drilling from 0.40m to 13.50m	DS-1 *SPT-1 *SPT-2 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18	0.20 0.30-0.34 0.40-0.43 CR=50% RQD=NIL CR=68% RQD=19% CR=67% RQD=NIL CR=64% RQD=NIL CR=61% RQD=NIL CR=72% RQD=NIL CR=67% RQD=NIL CR=63% RQD=29% CR=72% RQD=NIL CR=80% RQD=24% CR=73% RQD=NIL CR=67% RQD=20% CR=41% RQD=NIL CR=47% RQD=NIL CR=56% RQD=36% CR=51% RQD=25% CR=55% RQD=NIL CR=60% RQD=NIL 0.40 1.00 1.75 2.50 3.25 4.00 4.75 5.50 6.25 7.00 7.75 8.50 9.25 10.00 10.75 11.50 12.25 13.00 13.50
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.				
9.00m. Moderately weathered, light greenish grey, fine grained, fractured shale.				
13.50m.				

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh.			CETEST
Job No : 4157	Created by : T.SAHA	Created on : 08/08/2018	Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-4 (Receiver-1)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 19/07/2018
Completion Date : 22/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 281.520 M.
Water Struck At :
Standing Water Level : 4.15 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, silty clay with rock fragments.		Refusal	DS-1	0.50
		100 3.0 cm Pentn. Refusal	*SPT-1	0.90-0.93
1.00m.		100 2.0 cm Pentn. NX. drilling from 1.00m to 13.50m	*SPT-2	1.00-1.02
			R1	CR=26% RQD=NIL 1.75
			R2	CR=40% RQD=NIL 2.50
			R3	CR=40% RQD=NIL 3.25
			R4	CR=33% RQD=NIL 4.00
			R5	CR=37% RQD=NIL 4.75
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R6	CR=37% RQD=NIL 5.50
			R7	CR=46% RQD=NIL 6.25
			R8	CR=40% RQD=NIL 7.00
			R9	CR=40% RQD=NIL 7.75
			R10	CR=42% RQD=NIL 8.50
			R11	CR=33% RQD=NIL 9.25
			R12	CR=40% RQD=NIL 10.00
10.50m.			R13	CR=44% RQD=NIL 10.75
			R14	CR=68% RQD=NIL 11.50
Moderately to slightly weathered, light greenish grey, fine grained, fractured shale.			R15	CR=64% RQD=NIL 12.25
			R16	CR=75% RQD=37% 13.00
13.50m.			R17	CR=80% RQD=42% 13.50

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-4 (Receiver-2)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	0
		Water Sample (WS)	0

Commencement Date : 23/07/2018
Completion Date : 26/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 281.520 M.
Water Struck At :
Standing Water Level : 4.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, silty clay with rock fragments. 0.30m.		100 Refusal 2.0 cm Pentn. NX. drilling from 0.30m to 13.50m	*SPT-1	0.30-0.32
			R1	CR=50% RQD=NIL 1.00
			R2	CR=51% RQD=NIL 1.75
			R3	CR=64% RQD=NIL 2.50
			R4	CR=56% RQD=NIL 3.25
			R5	CR=51% RQD=NIL 4.00
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R6	CR=59% RQD=NIL 4.75
			R7	CR=51% RQD=NIL 5.50
			R8	CR=53% RQD=NIL 6.25
			R9	CR=76% RQD=NIL 7.00
			R10	CR=64% RQD=NIL 7.75
			R11	CR=67% RQD=NIL 8.50
9.00m.			R12	CR=69% RQD=NIL 9.25
			R13	CR=62% RQD=NIL 10.00
			R14	CR=73% RQD=39% 10.75
Slightly weathered to fresh, light greenish grey, fine grained, fractured shale.			R15	CR=77% RQD=NIL 11.50
			R16	CR=80% RQD=24% 12.25
			R17	CR=87% RQD=15% 13.00
13.50m.			R18	CR=84% RQD=NIL 13.50

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

BH-4002/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST- 5(Main) | Co-ordinates E=(-)523.000 N=857.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 22/07/2018
Completion Date : 24/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.250 M.
Water Struck At :
Standing Water Level : 2.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Filled up soil consists of reddish brown, silty clay / clayey silt with decomposed rock.			DS-1	0.50
		100 Refusal 4.0 cm Pentn.	*SPT-1	1.00-1.04
1.30m.		100 Refusal 3.0 cm Pentn. NX. drilling from 1.30m to 13.50m	*SPT-2	1.30-1.33
			R1	CR=29% RQD=NIL 2.00
			R2	CR=38% RQD=NIL 2.75
			R3	CR=38% RQD=27% 3.50
			R4	CR=35% RQD=NIL 4.25
Highly to moderately weathered, reddish brown fine grained, highly fractured shale.			R5	CR=36% RQD=NIL 5.00
			R6	CR=40% RQD=36% 5.75
			R7	CR=42% RQD=36% 6.50
			R8	CR=42% RQD=24% 7.25
			R9	CR=39% RQD=20% 8.00
			R10	CR=42% RQD=16% 8.75
8.75m.			R11	CR=45% RQD=30% 9.50
			R12	CR=48% RQD=36% 10.25
Moderately weathered, reddish grey to light grey, fine grained, moderately fractured shale.			R13	CR=50% RQD=40% 11.00
			R14	CR=52% RQD=30% 11.75
			R15	CR=58% RQD=28% 12.50
			R16	CR=45% RQD=26% 13.00
			R17	CR=48% RQD=30% 13.50
13.50m. N.B. – '*' means sample could not be recovered.				

BH-5/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-5 (Receiver-1)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 25/07/2018
Completion Date : 27/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.250 M.
Water Struck At :
Standing Water Level : 2.60 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of yellowish brown, silty clay / clayey silt. Obs. decomposed rock.		>100 (11 35 66) Refusal	DS-1	0.50
			SPT-1	1.00-1.45
		100 5.0 cm Pentn. Refusal	*SPT-2	1.70-1.75
1.80m.		100 4.0 cm Pentn.	*SPT-3	1.80-1.84
		NX. drilling from 1.80m to 13.50m	R1	CR=32% RQD=NIL 2.50
			R2	CR=36% RQD=NIL 3.25
			R3	CR=42% RQD=NIL 4.00
			R4	CR=42% RQD=16% 4.75
			R5	CR=40% RQD=NIL 5.50
			R6	CR=46% RQD=NIL 6.25
			R7	CR=40% RQD=NIL 7.00
Highly / moderately weathered, reddish brown, fine grained, highly fractured shale.			R8	CR=38% RQD=NIL 7.75
			R9	CR=40% RQD=NIL 8.50
			R10	CR=46% RQD=30% 9.25
			R11	CR=45% RQD=40% 10.00
			R12	CR=42% RQD=38% 10.75
			R13	CR=48% RQD=36% 11.50
			R14	CR=50% RQD=40% 12.25
			R15	CR=48% RQD=32% 13.00
			R16	CR=56% RQD=30% 13.50
13.50m.				

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

BH-5001/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 08/08/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.CHST-5 (Receiver-2)

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 27/07/2018
Completion Date : 28/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.250 M.
Water Struck At :
Standing Water Level : 2.00 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of reddish brown, silty clay / clayey silt with decomposed rock.		12 22 32 = 54	DS-1	0.50
			SPT-1	1.00-1.45
		Refusal		
		100 5.0 cm Pentr.	*SPT-2	1.80-1.85
2.00m.		100 Refusal 2.0 cm Pentr.	*SPT-3	2.00-2.02 2.00
		NX. drilling from 2.00m to 13.50m	R1	CR=24% RQD=NIL 2.75
			R2	CR=30% RQD=NIL 3.50
			R3	CR=40% RQD=NIL 4.25
			R4	CR=38% RQD=NIL 5.00
			R5	CR=38% RQD=NIL 5.75
Highly to moderately weathered, reddish brown, fine grained, highly to moderately fractured shale.			R6	CR=42% RQD=13% 6.50
			R7	CR=36% RQD=NIL 7.25
			R8	CR=40% RQD=20% 8.00
			R9	CR=42% RQD=29% 8.75
			R10	CR=40% RQD=20% 9.50
			R11	CR=38% RQD=30% 10.25
			R12	CR=40% RQD=32% 11.00
			R13	CR=44% RQD=26% 11.75
11.75m.			R14	CR=52% RQD=26% 12.50
Moderately weathered, reddish brown, fine grained, highly to moderately fractured shale.			R15	CR=60% RQD=26% 13.00
			R16	CR=55% RQD=29% 13.50
13.50m.				

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT1

Co-ordinates E=(-)663.000 N=835.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 10/07/2018
Completion Date : 11/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.110 M.
Water Struck At :
Standing Water Level : 1.80 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	Depth (m)
0.00m				
Medium, reddish brown, clayey silt.(Cl)		3 2 3 5	DS-1	0.50
			SPT-1	1.50-1.95
2.80m		Refusal 100	*SPT-2	2.80-2.83
Moderately weathered, reddish brown, fine grained, fractured shale.		3.0 cm Pentn. NX. drilling from 2.80m to 12.00m	R1	CR=43% RQD=NIL 2.80 - 3.55
3.55m			R2	CR=75% RQD=NIL 3.55 - 4.30
			R3	CR=75% RQD=NIL 4.30 - 5.05
			R4	CR=77% RQD=NIL 5.05 - 5.80
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R5	CR=72% RQD=NIL 5.80 - 6.55
			R6	CR=71% RQD=NIL 6.55 - 7.30
			R7	CR=76% RQD=NIL 7.30 - 8.05
			R8	CR=72% RQD=NIL 8.05 - 8.80
			R9	CR=66% RQD=NIL 8.80 - 9.55
9.55m			R10	CR=57% RQD=NIL 9.55 - 10.30
Modeartely to slightly weathered, reddish brown, fine grained, fractured shale.			R11	CR=60% RQD=NIL 10.30 - 11.05
			R12	CR=52% RQD=NIL 11.05 - 11.55
			R13	CR=75% RQD=NIL 11.55 - 12.00
12.00m				

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

BH-1/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT2

Co-ordinates E=(-)682.000 N=1314.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 09/07/2018
Completion Date : 10/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.340 M.
Water Struck At :
Standing Water Level : 1.46 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Stiff, reddish brown, clayey silt with decomposed rock fragments.(Cl)		3 5 8 13	DS-1 SPT-1	0.50 1.50-1.95
2.60m Highly weathered, reddish brown, fine grained, fractured shale.		Refusal 100 3.0 cm Pentn. NX. drilling from 2.60m to 12.00m	*SPT-2 R1	2.60-2.63 CR=40% RQD=NIL
3.55m Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R2 R3 R4 R5 R6 R7	CR=80% RQD=28% CR=88% RQD=72% CR=87% RQD=73% CR=87% RQD=72% CR=76% RQD=73% CR=69% RQD=57%
7.85m Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R8 R9 R10 R11 R12 R13	CR=85% RQD=NIL CR=81% RQD=66% CR=75% RQD=65% CR=69% RQD=17% CR=75% RQD=62% CR=68% RQD=NIL
12.00m				

2.60 → 3.35 → 4.10 → 4.85 → 5.60 → 6.35 → 7.10 → 7.85 → 8.60 → 9.35 → 10.10 → 10.85 → 11.60 → 12.00

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

BH-2/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT3

Co-ordinates E=(-)686.000 N=1263.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	3	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	3
Vane (V)		Disturbed (DS)	2
		Water Sample (WS)	0

Commencement Date : 08/07/2018
Completion Date : 09/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.348 M.
Water Struck At :
Standing Water Level : 1.60 m.

DESCRIPTION	N-VALUE (EACH DIVN=15CM)	SAMPLES Ref. No	Depth (m)
0.00m.			
Filled up with silty clay / clayey silt with decomposed rock fragments.	7 11 19 (30)	DS-1	0.50
		SPT-1	1.00-1.45
1.50m.		DS-2	2.00
Hard(N>50), Reddish brown, clayey silt / silty clay with decomposed rock fragments.(Cl)	Refusal 100 2.0 cm Pentn.	*SPT-2	2.10-2.12
2.20m.	100 Refusal 3.0 cm Pentn.	*SPT-3	2.20-2.23
	NX. drilling from 2.20m to 12.00m	R1 CR=32% RQD=NIL	2.20 / 2.70
		R2 CR=46% RQD=20%	2.70 / 3.45
Highly to modeartely weathered, reddish brown, fine grained, fractured shale.		R3 CR=45% RQD=40%	3.45 / 4.20
		R4 CR=47% RQD=44%	4.20 / 4.95
		R5 CR=46% RQD=33%	4.95 / 5.70
5.70m.		R6 CR=57% RQD=32%	5.70 / 6.45
Modeartely weathered, reddish brown, fine grained, fractured shale.		R7 CR=54% RQD=38%	6.45 / 7.20
		R8 CR=53% RQD=50%	7.20 / 7.95
7.95m.		R9 CR=69% RQD=67%	7.95 / 8.70
		R10 CR=63% RQD=50%	8.70 / 9.45
Moderately / slightly weathered, reddish brown, fine grained, fractured shale.		R11 CR=68% RQD=52%	9.45 / 10.20
		R12 CR=48% RQD=NIL	10.20 / 10.95
		R13 CR=47% RQD=NIL	10.95 / 11.50
		R14 CR=54% RQD=NIL	11.50 / 12.00
12.00m.			

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

BH-3/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT4

Co-ordinates E=(-)595.000 N=1261.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 03/07/2018
Completion Date : 04/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.730 M.
Water Struck At :
Standing Water Level : 1.26 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	Depth (m)
0.00m. Very stiff, reddish brown, clayey silt with decomposed rock fragments.(Cl)			DS-1	0.50
		4 6 16 — 22 Refusal	SPT-1	1.40-1.85
1.95m.		100 3.0 cm Pentr.	*SPT-2	1.95-1.98
Moderately weathered to fresh, reddish brown, fine grained, fractured shale.		NX. drilling from 1.95m to 12.00m	R1 CR=56% RQD=18%	1.95 - 2.50
			R2 CR=85% RQD=73%	2.50 - 3.25
			R3 CR=80% RQD=59%	3.25 - 4.00
			R4 CR=83% RQD=79%	4.00 - 4.75
			R5 CR=81% RQD=68%	4.75 - 5.50
			R6 CR=60% RQD=24%	5.50 - 6.00
			R7 CR=52% RQD=NIL	6.00 - 6.50
6.50m. Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R8 CR=84% RQD=72%	6.50 - 7.25
			R9 CR=91% RQD=88%	7.25 - 8.00
			R10 CR=77% RQD=57%	8.00 - 8.75
			R11 CR=89% RQD=72%	8.75 - 9.50
9.50m. Slightly weathered to fresh, reddish brown, fine grained, fractured shale.			R12 CR=72% RQD=68%	9.50 - 10.00
			R13 CR=76% RQD=58%	10.00 - 10.50
			R14 CR=83% RQD=80%	10.50 - 11.25
			R15 CR=89% RQD=86%	11.25 - 12.00
12.00m. N.B. — '*' means sample could not be recovered.				

BH-4/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT5

Co-ordinates E=(-)647.000 N=1191.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 04/07/2018
Completion Date : 05/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.560 M.
Water Struck At :
Standing Water Level : 1.22 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Reddish brown, clayey silt with decomposed rock fragments.(Cl)			DS-1	0.40
0.50m.		Refusal 100	*SPT-1	0.50-0.53
		3.0 cm Pentn.	R1	CR=56% RQD=NIL
		NX. drilling from 0.50m to 12.00m	R2	CR=70% RQD=NIL
			R3	CR=68% RQD=13%
			R4	CR=68% RQD=32%
			R5	CR=75% RQD=24%
			R6	CR=69% RQD=20%
			R7	CR=78% RQD=51%
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R8	CR=77% RQD=36%
			R9	CR=79% RQD=13%
			R10	CR=75% RQD=36%
			R11	CR=80% RQD=47%
			R12	CR=77% RQD=NIL
			R13	CR=77% RQD=24%
			R14	CR=73% RQD=39%
			R15	CR=70% RQD=NIL
			R16	CR=80% RQD=NIL
12.00m.				

0.50 1.25 2.00 2.75 3.50 4.25 5.00 5.75 6.50 7.25 8.00 8.75 9.50 10.25 11.00 11.50 12.00

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

BH-5/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT6

Co-ordinates E=(-)655.000 N=1116.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 05/07/2018
Completion Date : 06/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.380 M.
Water Struck At :
Standing Water Level : 0.97 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m. Reddish brown, clayey silt with decomposed rock fragments.(Cl)			DS-1	0.40
0.50m.		Refusal 100 2.0 cm Pentn.	*SPT-1	0.50-0.52
		NX. drilling from 0.50m to 10.25m	R1	CR=84% RQD=40%
			R2	CR=75% RQD=73%
			R3	CR=80% RQD=47%
			R4	CR=77% RQD=39%
Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R5	CR=80% RQD=39%
			R6	CR=76% RQD=NIL
			R7	CR=78% RQD=57%
			R8	CR=77% RQD=57%
			R9	CR=80% RQD=51%
7.25m.			R10	CR=89% RQD=86%
Slightly weathered / fresh, reddish brown, fine grained, fractured shale.			R11	CR=86% RQD=57%
			R12	CR=84% RQD=64%
			R13	CR=83% RQD=59%
			R14	CR=84% RQD=77%
			R15	CR=68% RQD=NIL
12.00m.			R16	CR=80% RQD=50%

0.50 1.25 2.00 2.75 3.50 4.25 5.00 5.75 6.50 7.25 8.00 8.75 9.50 10.25 11.00 11.50 12.00

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

BH-6/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT7

Co-ordinates E=(-)628.000 N=1050.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 06/07/2018
Completion Date : 07/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.920 M.
Water Struck At :
Standing Water Level : 2.50 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Reddish brown, clayey silt with decomposed rock fragments.(Cl)			DS-1	0.50
0.70m		Refusal 100 3.0 cm Pentr.	*SPT-1	0.70-0.73
Moderately weathered, reddish brown, fine grained, fractured shale.		NX. drilling from 0.70m to 12.00m	R1	CR=47% RQD=NIL
			R2	CR=47% RQD=NIL
2.20m			R3	CR=77% RQD=NIL
			R4	CR=75% RQD=NIL
			R5	CR=75% RQD=NIL
			R6	CR=80% RQD=NIL
			R7	CR=72% RQD=NIL
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R8	CR=77% RQD=28%
			R9	CR=80% RQD=17%
			R10	CR=73% RQD=32%
			R11	CR=79% RQD=29%
			R12	CR=79% RQD=19%
			R13	CR=80% RQD=75%
10.45m			R14	CR=82% RQD=64%
Fresh, reddish brown, fine grained, fractured shale.			R15	CR=83% RQD=29%
			R16	CR=82% RQD=36%
12.00m				

0.70 1.45 2.20 2.95 3.70 4.45 5.20 5.95 6.70 7.45 8.20 8.95 9.70 10.45 11.20 11.60 12.00

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

BH-7/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT8

Co-ordinates E=(-)514.000 N=904.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 12/07/2018
Completion Date : 13/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.300 M.
Water Struck At :
Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	Depth (m)
0.00m				
Hard(N>50), reddish brown, clayey silt.(CI)		37 100 >100 7.0 cm Pentn.	DS-1	0.50
			SPT-1	1.50-1.72
1.80m		100 Refusal 3.0 cm Pentn.	*SPT-2	1.80-1.83
		NX. drilling from 1.80m to 12.00m		1.80
			R1	CR=40% RQD=NIL
				2.55
			R2	CR=52% RQD=13%
				3.30
			R3	CR=56% RQD=13%
				4.05
			R4	CR=76% RQD=13%
				4.80
			R5	CR=75% RQD=NIL
				5.55
			R6	CR=75% RQD=13%
				6.30
Moderately to slightly weathered, reddish to greyish brown, fine grained, fractured shale.			R7	CR=69% RQD=37%
				7.05
			R8	CR=77% RQD=37%
				7.80
			R9	CR=68% RQD=NIL
				8.55
			R10	CR=72% RQD=NIL
				9.30
			R11	CR=76% RQD=NIL
				10.05
			R12	CR=61% RQD=NIL
				10.80
			R13	CR=63% RQD=16%
				11.55
			R14	CR=73% RQD=NIL
12.00m				12.00

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

BH-8/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT9

Co-ordinates E=(-)1443.000 N=1014.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	2	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	2
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 15/07/2018
Completion Date : 16/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.245 M.
Water Struck At :
Standing Water Level : 3.50 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up soil consists of reddish brown, silty clay / clayey silt with decomposed rock.		Refusal	DS-1	0.50
		100 4.0 cm Pentn.	*SPT-1	1.00-1.04
1.30m.		100 Refusal	*SPT-2	1.30-1.33
		3.0 cm Pentn.		1.30
		NX. drilling from 1.30m to 12.00m	R1	CR=22% RQD=NIL
				2.00
Highly weathered, reddish brown, fine grained, fractured shale.			R2	CR=24% RQD=13%
				2.75
			R3	CR=24% RQD=16%
3.50m.				3.50
			R4	CR=30% RQD=NIL
				4.25
			R5	CR=32% RQD=NIL
				5.00
			R6	CR=30% RQD=20%
				5.75
			R7	CR=32% RQD=NIL
				6.50
			R8	CR=29% RQD=NIL
				7.25
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R9	CR=30% RQD=NIL
				8.00
			R10	CR=33% RQD=NIL
				8.75
			R11	CR=40% RQD=40%
				9.50
			R12	CR=38% RQD=NIL
				10.25
			R13	CR=36% RQD=NIL
				11.00
			R14	CR=35% RQD=13%
12.00m.				12.00

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

BH-9/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT10

Co-ordinates E=(-)878.000 N=1314.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	4	Undisturbed (UDS)	1
Cone (Pc)		Penetrometer (SPT)	4
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 12/07/2018
Completion Date : 13/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.476 M.
Water Struck At :
Standing Water Level : 3.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m.				
Filled up with reddish brown, silty clay / clayey silt with road materials		8 9 17 (26)	DS-1	0.50
			SPT-1	1.00-1.45
			*UDS-1	2.00-2.45
2.50m.				
Very stiff to hard, reddish brown, silty clay / clayey silt with decomposed rock fragments.(Cl)		5 9 11 (20)	SPT-2	3.00-3.45
		Refusal 100 3.0 cm Pentn.	*SPT-3	4.10-4.13
4.20m.		Refusal 100 2.0 cm Pentn.	*SPT-4	4.20-4.22
		NX. drilling from 4.20m to 12.00m	R1	CR=40% RQD=24% 4.20-4.95
Highly to moderately weathered, reddish brown, fine grained, fractured shale.			R2	CR=38% RQD=26% 4.95-5.70
			R3	CR=33% RQD=30% 5.70-6.45
			R4	CR=50% RQD=37% 6.45-7.20
7.20m.			R5	CR=66% RQD=62% 7.20-7.95
			R6	CR=69% RQD=63% 7.95-8.70
			R7	CR=46% RQD=40% 8.70-9.45
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.			R8	CR=60% RQD=58% 9.45-10.20
			R9	CR=57% RQD=52% 10.20-10.95
			R10	CR=54% RQD=52% 10.95-11.50
			R11	CR=52% RQD=48% 11.50-12.00
12.00m.				

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

BH-10/Sheet-1

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT11

Co-ordinates E=(-)495.000 N=1652.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 15/07/2018
Completion Date : 16/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.287 M.
Water Struck At :
Standing Water Level : 1.10 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Reddish brown, clayey silt with decomposed rock fragments.(Cl)			DS-1	0.50
1.50m		Refusal 100 3.0 cm Pentn.	*SPT-1	1.50-1.53
Moderately / slightly weathered, reddish brown, fine grained, fractured shale.		NX. drilling from 1.50m to 12.00m	R1	CR=53% RQD=26%
			R2	CR=49% RQD=19%
			R3	CR=72% RQD=57%
			R4	CR=74% RQD=NIL
			R5	CR=68% RQD=NIL
			R6	CR=70% RQD=NIL
			R7	CR=72% RQD=NIL
			R8	CR=72% RQD=NIL
			R9	CR=63% RQD=NIL
			R10	CR=55% RQD=NIL
			R11	CR=58% RQD=NIL
			R12	CR=51% RQD=NIL
			R13	CR=59% RQD=NIL
			R14	CR=57% RQD=NIL
12.00m				

1.50 2.25 3.00 3.75 4.50 5.25 6.00 6.75 7.50 8.25 9.00 9.75 10.50 11.25 12.00

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

Project : Geotechnical Inv. Work for 1x800MW Sipat STPP at Sipat, Chhattisgarh. CETEST

Job No : 4157 | Created by : T.SAHA | Created on : 31/07/2018 | Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.PMT12

Co-ordinates E=(-)73.000 N=1656.000

Field Test	Nos	Samples	Nos
Penetrometer (SPT)	1	Undisturbed (UDS)	0
Cone (Pc)		Penetrometer (SPT)	1
Vane (V)		Disturbed (DS)	1
		Water Sample (WS)	0

Commencement Date : 16/07/2018
Completion Date : 16/07/2018
Bore Hole Diameter : N.X
Level Of Ground : 282.580 M.
Water Struck At :
Standing Water Level : 1.20 m.

DESCRIPTION	SYMBOL	N-VALUE EACH DIVN=15CM	SAMPLES Ref. No	SAMPLES Depth (m)
0.00m Reddish brown, clayey silt with decomposed rock fragments.(Cl)			DS-1	0.50
1.00m.		Refusal 100 2.0 cm Pentn.	*SPT-1	1.00-1.02
Moderately to slightly weathered, reddish brown, fine grained, fractured shale.		NX. drilling from 1.00m to 12.00m	R1	CR=41% RQD=NIL 1.00 - 1.75
			R2	CR=44% RQD=14% 1.75 - 2.50
			R3	CR=67% RQD=52% 2.50 - 3.25
			R4	CR=69% RQD=NIL 3.25 - 4.00
			R5	CR=63% RQD=NIL 4.00 - 4.75
			R6	CR=64% RQD=NIL 4.75 - 5.50
			R7	CR=67% RQD=NIL 5.50 - 6.25
			R8	CR=65% RQD=NIL 6.25 - 7.00
			R9	CR=63% RQD=NIL 7.00 - 7.75
			R10	CR=51% RQD=NIL 7.75 - 8.50
			R11	CR=53% RQD=NIL 8.50 - 9.25
			R12	CR=51% RQD=NIL 9.25 - 10.00
			R13	CR=55% RQD=NIL 10.00 - 10.75
			R14	CR=57% RQD=NIL 10.75 - 11.50
			R15	CR=52% RQD=NIL 11.50 - 12.00
12.00m.				

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

BH-12/Sheet-1

BORE LOG OF DRILL HOLE DBH - 01

SOILTECH (INDIA) PRIVATE LIMITED
GROUND ENGINEERS & CONSULTANTS

PROJECT: GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED SIPAT STPP STAGE-III, BILASPUR, CHATTISGARH.

CLIENT: NTPC LIMITED | **CO-ORDINATES : N -2860, W-434** | **GROUND LEVEL (m) : 281.890**

LOCATION: SIPAT, CHATTISGARH. | **CASING DEPTH (m) : 2.10** | **DRILLING METHOD: ROTARY DRILLING**

TERMINATION DEPTH BGL (m) : 10.00 | **GROUND W.L BGL (m) : 1.70 M** | **DRILLING ORIENTATION: VERTICAL**

STARTED: 13.04.2023 | **CORE DIAMETER (mm) : 54** | **COMPLETED: 14.04.2023**

DEPTH (m)		DESCRIPTION OF STRATA	LITHOLOGY	TYPE OF SAMPLE	SERIAL NO OF CORE'S	SPT					ROCK DETAILS			LAB TEST ON SOIL						LAB TEST ON ROCK								
						NO. OF BLOWS								GRAIN SIZE ANALYSIS				SPECIFIC GRAVITY	IS CLASSIFICATION									
FROM	TO					15 cm	30 cm	45 cm	60 cm	"SPT N" VALUE	TCR %	RQD %	WEATHERING GRADE	GRAVELS %	SAND %	SILT %	CLAY %			SPECIFIC GRAVITY	DRY DENSITY g/cc	BULK DENSITY g/cc	WATER ABSORPTION %	POROSITY %	UNCONFINED COMPRESSIVE STRENGTH Kg/cm2	POINT LOAD INDEX Kg/cm2	MODULUS OF ELASTICITY	POISSON'S RATIO (μ)
0.00	0.50	Filling with Brownish Soil & Boulder.																									
0.50	1.50																										
1.50	1.95	Hard, Yellowish, Clay With Medium Plasticity.				15	17	30	-	47				11.29	8.73	69.53	10.45	2.76	CI								
1.95	3.20																										
3.20	4.50	Moderately Weathered, Brown-White, Shale.		CORE	1-6						64	64	W_1							2.85	2.81	2.82	0.45	1.25	1330.1	-	-	-
4.50	6.00	Fresh, Brown-White, Shale.		CORE	7-13						94	92	W_1							-	2.74	-	-	-	656.36	-	-	-
6.00	7.50			CORE	14-20						91	89	W_2							-	-	-	-	-	-	51.4	-	-
7.50	9.00			CORE	21-24						100	100	W_2															
9.00	10.00	Fresh, Brownish, Argillaceous Shale.		CORE	25-27						100	100	W_2															

ABBREVIATION

SPT : STANDARD PENETRATION TEST
UDS : UNDISTURB SAMPLE
DS : DISTURB SAMPLE
RQD : ROCK QUALITY DESIGNATION
TCR : TOTAL CORE RECOVERY
SCR : SOLID CORE RECOVERY
R : SPT REFUSAL
WL : WATER LOSS

LEGEND : LITHOLOGY

	FILL		CLAY
	SAND		SHALE
	BASALT		CLAYSTONE
	GRAVELS		SILT

Site Engineer - Ramkaran | **Prepared By- Ajinkya** | **Checked By - Rupa Jagdale**

BORE LOG OF DRILL HOLE DBH - 02

SOILTECH (INDIA) PRIVATE LIMITED
GROUND ENGINEERS & CONSULTANTS

PROJECT: GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED SIPAT STPP STAGE-III, BILASPUR, CHATTISGARH.

CLIENT: NTPC LIMITED | **CO-ORDINATES : N -2386, W-427** | **GROUND LEVEL (m) : 281.807**

LOCATION: SIPAT, CHATTISGARH. | **CASING DEPTH (m) : 2.00** | **DRILLING METHOD: ROTARY DRILLING**

TERMINATION DEPTH BGL (m) : 10.00 | **GROUND W.L BGL (m) : 1.60 M** | **DRILLING ORIENTATION: VERTICAL**

STARTED: 12.04.2023 | **CORE DIAMETER (mm) : 54** | **COMPLETED: 13.04.2023**

DEPTH (m)		DESCRIPTION OF STRATA	LITHOLOGY	TYPE OF SAMPLE	SERIAL NO OF CORE'S	SPT					ROCK DETAILS			LAB TEST ON SOIL						LAB TEST ON ROCK								
						NO. OF BLOWS								GRAIN SIZE ANALYSIS				SPECIFIC GRAVITY	IS CLASSIFICATION									
FROM	TO					15 cm	30 cm	45 cm	60 cm	"SPT N" VALUE	TCR %	RQD %	WEATHERING GRADE	GRAVELS %	SAND %	SILT %	CLAY %			SPECIFIC GRAVITY	DRY DENSITY g/cc	BULK DENSITY g/cc	WATER ABSORPTION %	POROSITY %	UNCONFINED COMPRESSIVE STRENGTH Kg/cm2	POINT LOAD INDEX Kg/cm2	MODULUS OF ELASTICITY	POISSON'S RATIO (μ)
0.00	0.10	Filling with Brownish Soil, Clay & Boulder.																									
0.10	1.50																										
1.50	1.95	Very Stiff,Yellow Soil With Clay				7	8	11	-	19				15.74	50.64	25.42	8.2	2.6	-								
1.95	3.00	Moderately Weathered, Brown-White, Shale.		CORE	1-2						38	38	W_3							2.79	2.76	2.77	0.43	1.18	556.67	-	16726	0.03
3.00	4.50			CORE	3-8						43	15	W_3							-	-	-	-	-	-	34.89	-	-
4.50	6.00	Highly Weathered, Brown-White, Shale.		CORE	9-14						31	Nil	W_4							2.66	2.56	2.6	1.42	3.63	-	13.45	-	-
6.00	7.50			CORE	15-22						52	Nil	W_4							-	-	-	-	-	-	29	-	-
7.50	9.00			CORE	23-51						48	Nil	W_4															
9.00	10.00	Moderately Weathered, Brown-White, Shale.		CORE	52-41						41	15	W_3															

ABBREVIATION

SPT : STANDARD PENETRATION TEST
UDS : UNDISTURB SAMPLE
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RQD : ROCK QUALITY DESIGNATION
TCR : TOTAL CORE RECOVERY
SCR : SOLID CORE RECOVERY
R : SPT REFUSAL
WL : WATER LOSS

LEGEND : LITHOLOGY

	FILL		CLAY
	SAND		SHALE
	BASALT		CLAYSTONE
	GRAVELS		SILT

Site Engineer - Ramkaran | **Prepared By- Ajinkya K** | **Checked By - Rupa Jagdale**

BORE LOG OF DRILL HOLE DBH - 03

SOILTECH (INDIA) PRIVATE LIMITED
GROUND ENGINEERS & CONSULTANTS

PROJECT: GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED SIPAT STPP STAGE-III, BILASPUR, CHATTISGARH.

CLIENT: NTPC LIMITED | **CO-ORDINATES : N -2226, W-850** | **GROUND LEVEL (m) : 281.746**

LOCATION: SIPAT, CHATTISGARH. | **CASING DEPTH (m) : 6.50** | **DRILLING METHOD: ROTARY DRILLING**

TERMINATION DEPTH BGL (m) : 10.00 | **GROUND W.L BGL (m) : 3.50 M** | **DRILLING ORIENTATION: VERTICAL**

STARTED: 11.04.2023 | **CORE DIAMETER (mm) : 54** | **COMPLETED: 12.04.2023**

DEPTH (m)		DESCRIPTION OF STRATA	LITHOLOGY	TYPE OF SAMPLE	SERIAL NO OF CORE'S	SPT					ROCK DETAILS			LAB TEST ON SOIL						LAB TEST ON ROCK								
						NO. OF BLOWS								GRAIN SIZE ANALYSIS				SPECIFIC GRAVITY	IS CLASSIFICATION	SPECIFIC GRAVITY	DRY DENSITY g/cc	BULK DENSITY g/cc	WATER ABSORPTION %	POROSITY %	UNCONFINED COMPRESSIVE STRENGTH Kg/cm2	POINT LOAD INDEX Kg/cm2	MODULUS OF ELASTICITY	POISSON'S RATIO (μ)
FROM	TO					15 cm	30 cm	45 cm	60 cm	"SPT N" VALUE	TCR %	RQD %	WEATHERING GRADE	GRAVELS %	SAND %	SILT %	CLAY %											
0.00	0.10	Filling, Concrete Cutting & RCC Material.		DS																								
0.10	0.50			DS																								
0.50	1.50			DS																-	-	-	-	-	-	27.55	-	-
1.50	3.00			DS																								
3.00	4.50			DS																								
4.50	4.95	Very Stiff, Yellowish Sandy Soil With Clay.		SPT	1	5	10	13	-	23				22.41	34.37	38.98	4.24	2.75	-									
4.95	6.00																											
6.00	6.55			SPT	2	7	11	14	-	25				33.25	33.69	24.46	8.6	2.79	-									
6.55	7.50	Moderately Weathered, Brown-White, Shale.		CORE	2-9						45	33	W_4							2.8	2.74	2.76	0.72	1.98	-	43.62	-	-
7.50	9.00			CORE	10-25						81	28	W_4							-	-	-	-	-	-	40.01	-	-
9.00	10.00	Completely Weathered, Brown-White, Shale.		CORE	26-29						34	7	W_3															

ABBREVIATION

SPT : STANDARD PENETRATION TEST
UDS : UNDISTURB SAMPLE
DS : DISTURB SAMPLE
RQD : ROCK QUALITY DESIGNATION
TCR : TOTAL CORE RECOVERY
SCR : SOLID CORE RECOVERY
R : SPT REFUSAL
WL : WATER LOSS

LEGEND : LITHOLOGY

	FILL		CLAY
	SAND		SHALE
	BASALT		CLAYSTONE
	GRAVELS		SILT

Site Engineer - Ramkaran | **Prepared By- Ajinkya K** | **Checked By - Rupa Jagdale**

BORE LOG OF DRILL HOLE DBH - 04

SOILTECH (INDIA) PRIVATE LIMITED
GROUND ENGINEERS & CONSULTANTS

PROJECT: GEOTECHNICAL INVESTIGATION WORK FOR PROPOSED SIPAT STPP STAGE-III, BILASPUR, CHATTISGARH.

CLIENT: NTPC LIMITED | **CO-ORDINATES : N -1820, W-833** | **GROUND LEVEL (m) : 281.833**

LOCATION: SIPAT, CHATTISGARH. | **CASING DEPTH (m) : 3.50** | **DRILLING METHOD: ROTARY DRILLING**

TERMINATION DEPTH BGL (m) : 10.00 | **GROUND W.L BGL (m) : 1.80 M** | **DRILLING ORIENTATION: VERTICAL**

STARTED: 13.04.2023 | **CORE DIAMETER (mm) : 54** | **COMPLETED: 14.04.2023**

DEPTH (m)		DESCRIPTION OF STRATA	LITHOLOGY	TYPE OF SAMPLE	SERIAL NO OF CORE'S	SPT					ROCK DETAILS			LAB TEST ON SOIL						LAB TEST ON ROCK								
						NO. OF BLOWS								GRAIN SIZE ANALYSIS														
FROM	TO					15 cm	30 cm	45 cm	60 cm	"SPT N" VALUE	TCR %	RQD %	WEATHERING GRADE	GRAVELS %	SAND %	SILT %	CLAY %	SPECIFIC GRAVITY	IS CLASSIFICATION	SPECIFIC GRAVITY	DRY DENSITY g/cc	BULK DENSITY g/cc	WATER ABSORPTION %	POROSITY %	UNCONFINED COMPRESSIVE STRENGTH Kg/cm2	POINT LOAD INDEX Kg/cm2	MODULUS OF ELASTICITY	POISSON'S RATIO (μ)
0.00	0.10	Filling, Concrete Cutting & Rcc Material.																										
0.10	1.50	Brownish Clayey Soil & Boulder.																										
1.50	3.00																											
3.00	3.45	Stiff to Very Stiff, Yellowish, Clay with medium Plasticity.		SPT	1	3	5	6	-	11				1.17	6.67	79.75	12.41	2.62	Cl									
3.45	4.50																											
4.50	4.95			SPT	2	10	15	18	-	33				3.59	12.4	60.6	23.4	2.54	Cl									
4.95	6.00																											
6.00	6.50			SPT	3	16	19	22	-	41				21.4	13.7	54.5	10.4	2.52	-									
6.50	7.50	Moderately Weathered, Brown-White, Shale.		CORE	1-2						55	55	W_3							2.71	2.63	2.66	1.1	2.89	506.28	-	78399	0.15
7.50	9.00			CORE	3-4						65	25	W_3							-	-	-	-	-	769	-	-	-
9.00	10.00			CORE	5-23						55	34	W_3							-	-	-	-	-	-	31.51	-	-

ABBREVIATION

SPT : STANDARD PENETRATION TEST
UDS : UNDISTURB SAMPLE
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SCR : SOLID CORE RECOVERY
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WL : WATER LOSS

LEGEND : LITHOLOGY

	FILL		CLAY
	SAND		SHALE
	BASALT		CLAYSTONE
	GRAVELS		SILT

Site Engineer - Ramkaran | **Prepared By- Ajinkya K** | **Checked By - Rupa Jagdale**