

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.21 Co-ordinates E= 618 N= 1133

Field Test	Nos	Samples	Nos	Commencement Date : 22/06/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 23/06/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 277.574 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 2.95 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
13.00m									13.00
Highly to moderately weathered, yellowish grey, fine grained, moderately to slightly fractured sandstone.								R7	CR=52% RQD=37%
								R8	CR=50% RQD=24%
								R9	CR=50% RQD=32%
15.25m									15.25
Slightly weathered, yellowish grey, fine grained, moderately to slightly fractured sandstone.								R10	CR=68% RQD=33%
								R11	CR=72% RQD=54%
								R12	CR=79% RQD=55%
								R13	CR=69% RQD=47%
								R14	CR=82% RQD=58%
								R15	CR=73% RQD=34%
								R16	CR=76% RQD=49%
								R17	CR=76% RQD=65%
								R18	CR=72% RQD=45%
								R19	CR=67% RQD=44%
								R20	CR=74% RQD=60%
								R21	CR=73% RQD=48%
								R22	CR=80% RQD=28%
25.00m									25.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.22 Co-ordinates E= 542 N= 1240

Field Test	Nos	Samples	Nos	Commencement Date : 16/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 17/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.24 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.5 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Filled up by brownish grey, clayey silt with boulder pcs.						DS-1	0.50
0.60m Medium dense, yellowish brown, silty sand. (SM)		6	9	10	19	SPT-1	1.00-1.45
2.90m Very dense, light yellowish grey, silty sand with decomposed rock fragment. (SM)		24	49	27	>100	*UDS-1	2.00-2.45
3.90m		100			Refusal	SPT-2	3.00-3.34
Highly to moderately weathered, greyish brown to light grey, fine grained, moderately to slightly fractured sandstone.		NX rotary drilling from 3.90m to 25.00m				*SPT-3 R1	3.90-3.94 CR=33% RQD=NIL
						R2	CR=40% RQD=29%
						R3	CR=43% RQD=NIL
						R4	CR=45% RQD=15%
						R5	CR=48% RQD=29%
						R6	CR=45% RQD=NIL
						R7	CR=49% RQD=13%
						R8	CR=60% RQD=25%
						R9	CR=67% RQD=40%
						R10	CR=61% RQD=NIL
						R11	CR=72% RQD=17%
						R12	CR=61% RQD=51%
9.00m							10.50
13.00m							11.25
							12.00
							12.75

BORE HOLE NO.22

Co-ordinates	E= 542 N= 1240
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Field Test	Nos	Samples	Nos	Commencement Date :	16/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date :	17/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter :	150 mm. / N.X
		Disturbed (DS)	1	Level Of Ground :	276.24 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	1.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES		
		EACH DIVN. = 15cm					Ref. No	Depth (m)	
Slightly weathered to fresh, greyish brown to light grey, fine grained, moderately to slightly fractured sandstone.	13.00m							R13	CR=67% RQD=59%
									13.50
								R14	CR=81% RQD=52%
									14.25
								R15	CR=85% RQD=68%
									15.00
								R16	CR=86% RQD=46%
									16.50
								R17	CR=83% RQD=31%
									18.00
								R18	CR=81% RQD=22%
									19.00
								R19	CR=90% RQD=80%
									20.50
								R20	CR=87% RQD=36%
									21.50
								R21	CR=83% RQD=54%
									22.50
								R22	CR=87% RQD=28%
									23.50
								R23	CR=98% RQD=72%
									25.00
	25.00m								
N.B. — '*' means sample could not be recovered.									

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CETEST

Job No : 3973M

Created by : S.NATH

Created on : 26/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.23

Co-ordinates

E= 540

N= 1292

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 : 16/07/17

Completion Date : 17/07/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 276.314 m.

Water Struck At :

Standing Water Level : 1.35 m.

DESCRIPTION

SYMBOL

N-VALUE

EACH DIVN. = 15cm

SAMPLES

Ref. No

Depth (m)

0.00m

Filled up soil consist of brownish grey, silty sand, boulder pcs & brickbats.

0.70m

Medium dense, yellowish brown, silty sand. (SM)

5

6

9

15

3.60m

Very dense, yellowish brown, silty sand with decomposed rock fragment. (SM)

4.10m

Highly to moderately weathered, brownish grey, fine grained, highly to moderately fractured sandstone.

7

11

14

25

11.50m

Mderately to slightly weathered / fresh, greyish brown, fine to medium grained, moderately to slightly fractured sandstone.

13.00m

57

43

4.0 cm

Pentn.

100

Refusal

4.0 cm

Pentn.

NX rotary drilling from 4.10m to 20.00m

DS-1

0.50

SPT-1

1.00-1.45

*UDS-1

2.00-2.45

SPT-2

3.00-3.45

SPT-3

3.75-3.94

*SPT-4

4.10-4.14

R1

CR=29%
RQD=NIL

R2

CR=27%
RQD=NIL

R3

CR=33%
RQD=NIL

R4

CR=39%
RQD=NIL

R5

CR=32%
RQD=NIL

R6

CR=31%
RQD=17%

R7

CR=40%
RQD=28%

R8

CR=36%
RQD=13%

R9

CR=43%
RQD=NIL

R10

CR=45%
RQD=37%

R11

CR=55%
RQD=51%

R12

CR=63%
RQD=43%

4.10

4.75

5.50

6.25

7.00

7.75

8.50

9.25

10.00

10.75

11.50

12.25

13.00

Page 47/440

BH-23/Sheet-1

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Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.24

Co-ordinates E= 596
N= 1274

Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.216 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.4 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Filled up soil consist of greyish brown, silty sand, boulder pcs.							DS-1	0.50
0.80m		3	6	6	12		SPT-1	1.00-1.45
Stiff to very stiff, brownish grey, silty clay / clayey silt with sand mixture. (CL)							UDS-1	2.00-2.45
		5	7	11	18		SPT-2	3.00-3.45
4.00m							*UDS-2	4.00-4.12
Very dense, brownish grey, sandy silt / silty sand with decomposed rock fragment & mica. (SM)		19	29	50	79	4.5 cm Pentn.	SPT-3	4.60-5.02
5.70m		42	58		>100	8.0 cm Pentn.	SPT-4	5.70-5.93
Highly to moderately weathered, greyish brown to brownish grey, fine grained, highly to moderately fractured sandstone.						NX rotary drilling from 5.70m to 25.00m	R1	CR=36% RQD=NIL
							R2	CR=37% RQD=NIL
							R3	CR=44% RQD=21%
							R4	CR=32% RQD=13%
8.50m							R5	CR=55% RQD=28%
							R6	CR=52% RQD=43%
							R7	CR=56% RQD=29%
Moderately to slightly weathered / fresh, greyish brown to brownish grey, fine grained, highly to moderately fractured sandstone.							R8	CR=55% RQD=21%
							R9	CR=80% RQD=37%
							R10	CR=84% RQD=39%
13.00m								13.00

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).								CETEST
Job No : 3973M		Created by : S.NATH		Created on : 26/07/2017		Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO.24		Co-ordinates E= 596 N= 1274		
Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17				
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 15/07/17				
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.216 m.				
		Water Sample (WS)	0	Water Struck At :				
				Standing Water Level : 1.4 m.				
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES	
				EACH DIVN. = 15cm			Ref. No	Depth (m)
								13.00
							R11	CR=71% RQD=15%
								14.50
							R12	CR=56% RQD=28%
								15.25
							R13	CR=61% RQD=40%
								16.00
							R14	CR=69% RQD=47%
								16.75
							R15	CR=65% RQD=53%
								17.50
							R16	CR=67% RQD=57%
								18.25
							R17	CR=56% RQD=NIL
								19.00
							R18	CR=59% RQD=NIL
								19.75
							R19	CR=63% RQD=53%
								20.50
							R20	CR=65% RQD=64%
								21.25
							R21	CR=64% RQD=51%
								22.00
							R22	CR=61% RQD=44%
								22.75
							R23	CR=59% RQD=45%
								23.50
							R24	CR=67% RQD=19%
								24.25
							R25	CR=72% RQD=29%
								25.00
Moderately to slightly weathered / fresh, greyish brown to brownish grey, fine grained, highly to moderately fractured sandstone.								
N.B. - '*' means sample could not be recovered.								

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CETEST

Job No : 3973M

Created by : S.NATH

Created on : 26/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.25

Co-ordinates $E=634$
 $N=1274$

Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.105 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.15 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Filled up soil consist of blackish grey, coal dust, silty sand & boulder pcs.							DS-1	0.50
0.70m							SPT-1	1.00-1.45
		3	5	8	13		*UDS-1	2.00-2.35
Stiff / hard, brownish grey, silty clay / clayey silt with traces of sand mixture & steel grey patches. (CL)							SPT-2	3.00-3.45
		10	15	21	36			
4.00m Very dense, greyish brown, silty sand / sandy silt with decomposed rock fragment (SM) & mica.							SPT-3	4.00-4.25
4.50m		37	63	100	>100	Refusal	*SPT-4	4.50-4.54
							R1	CR=23% RQD=NIL
							R2	CR=32% RQD=NIL
							R3	CR=41% RQD=NIL
							R4	CR=37% RQD=NIL
							R5	CR=39% RQD=NIL
							R6	CR=44% RQD=NIL
							R7	CR=47% RQD=17%
							R8	CR=59% RQD=40%
							R9	CR=61% RQD=19%
							R10	CR=52% RQD=24%
							R11	CR=67% RQD=51%
9.75m Moderately to slightly weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.								
13.00m								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.25 Co-ordinates E= 634 N= 1274

Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.105 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.15 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Moderately to slightly weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.							R12	CR=61% RQD=24% 13.00m 13.50m
							R13	CR=77% RQD=27% 14.25
							R14	CR=69% RQD=NIL 15.00
							R15	CR=75% RQD=47% 15.75
							R16	CR=73% RQD=NIL 16.50
							R17	CR=64% RQD=25% 17.25
							R18	CR=69% RQD=40% 18.00
							R19	CR=75% RQD=64% 18.75
							R20	CR=72% RQD=47% 19.50
							R21	CR=75% RQD=67% 20.25
							R22	CR=80% RQD=35% 21.00
							R23	CR=81% RQD=64% 21.75
							R24	CR=84% RQD=72% 23.25
							R25	CR=91% RQD=79% 24.75
							R26	CR=92% RQD=88% 25.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.26 Co-ordinates E= 560 N= 1310

Field Test	Nos	Samples	Nos	Commencement Date : 03/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 04/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.167 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.35 m.

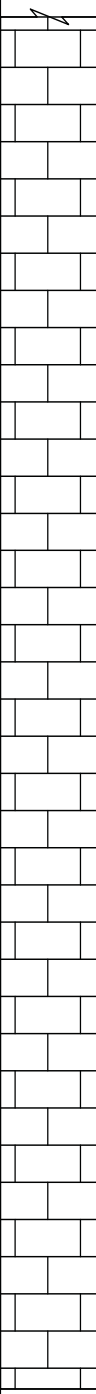
DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Filled up soil consist of light blackish grey, sandy silt with brickbats, boulder pcs.							DS-1	0.50
0.75m Very stiff, yellowish grey, silty clay / clayey silt with sand mixture, rusty & steel grey spots. (CL)		6	9	13	22		SPT-1	1.00-1.45
2.50m Dense to very dense, yellowish brown, sandy silt / silty sand with decomposed rock fragment & steel grey patches. (SM)		10	19	22	41		UDS-1	2.00-2.45
3.90m NX rotary drilling from 3.90m to 25.00m		33	67	5.0 cm Pentr. Refusal	>100		SPT-2	2.60-3.05
		100		4.0 cm Pentr.			SPT-3	3.40-3.60
							*SPT-4	3.90-3.94
							R1	CR=38% RQD=NIL
							R2	CR=37% RQD=20%
							R3	CR=44% RQD=39%
							R4	CR=21% RQD=NIL
							R5	CR=24% RQD=NIL
							R6	CR=31% RQD=NIL
							R7	CR=37% RQD=NIL
							R8	CR=39% RQD=24%
							R9	CR=35% RQD=NIL
							R10	CR=40% RQD=15%
							R11	CR=41% RQD=17%
							R12	CR=43% RQD=20%
12.75m 13.00m								12.75

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.26 Co-ordinates E= 560 N= 1310

Field Test	Nos	Samples	Nos	Commencement Date : 03/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 04/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.167 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m 							R13	CR=61% RQD=40% 13.50
							R14	CR=71% RQD=NIL 14.25
							R15	CR=64% RQD=32% 15.00
							R16	CR=67% RQD=13% 15.75
							R17	CR=69% RQD=37% 16.50
							R18	CR=71% RQD=35% 17.25
							R19	CR=72% RQD=57% 18.00
							R20	CR=73% RQD=52% 18.75
							R21	CR=75% RQD=57% 19.50
							R22	CR=84% RQD=48% 20.25
							R23	CR=88% RQD=32% 21.00
							R24	CR=87% RQD=50% 22.50
							R25	CR=89% RQD=80% 24.00
25.00m							R26	CR=91% RQD=50% 25.00

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

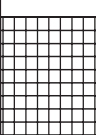
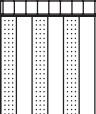
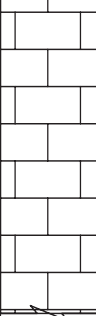
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Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.27 Co-ordinates E= 560 N= 1350

Field Test	Nos	Samples	Nos	Commencement Date : 04/07/17
Penetrometer (SPT)	2	Undisturbed (UDS)	1	Completion Date : 06/07/17
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.136 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Light blackish grey, silty clay / clayey silt with sand mixture & kankars. (CL)						DS-1	0.50
1.40m Very dense, brownish grey, sandy silt / silty sand with decomposed rock. (SM)						UDS-1	1.00-1.35
2.10m		36	64	8.0	cm Penetr.	SPT-1	1.75-1.98
		100			Refusal	*SPT-2	2.10-2.14
				4.0	cm Penetr.	R1	CR=29% RQD=NIL
					NX rotary drilling from 2.10m to 25.00m	R2	CR=33% RQD=NIL
						R3	CR=29% RQD=NIL
						R4	CR=45% RQD=24%
						R5	CR=43% RQD=13%
						R6	CR=44% RQD=29%
						R7	CR=40% RQD=23%
						R8	CR=39% RQD=NIL
						R9	CR=40% RQD=32%
						R10	CR=52% RQD=39%
						R11	CR=49% RQD=13%
						R12	CR=57% RQD=40%
						R13	CR=61% RQD=20%
						R14	CR=64% RQD=45%
						R15	CR=65% RQD=25%
10.25m Slightly weathered to fresh, light greyish brown to brownish grey, fine grained, slightly fractured sandstone.							
13.00m							

Receipt No : 292418/2024/PS-HQ-HRM

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Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.27 Co-ordinates E= 560 N= 1350

Field Test	Nos	Samples	Nos	Commencement Date : 04/07/17
Penetrometer (SPT)	2	Undisturbed (UDS)	1	Completion Date : 06/07/17
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.136 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m Slightly weathered to fresh, light greyish brown to brownish grey, fine grained, slightly fractured sandstone.							R16	13.25 CR=63% RQD=35% 14.00
14.75m Slightly weathered, greyish brown to light blackish grey, fine grained, moderately to slightly fractured sandstone.							R17	CR=67% RQD=32% 14.75
17.00m Slightly weathered to fresh, light greyish brown to light grey, fine grained, slightly fractured sandstone.							R18	CR=63% RQD=NIL 15.50
							R19	CR=71% RQD=51% 16.25
							R20	CR=60% RQD=43% 17.00
							R21	CR=68% RQD=55% 17.75
							R22	CR=76% RQD=47% 18.50
							R23	CR=83% RQD=44% 19.25
							R24	CR=84% RQD=56% 20.00
							R25	CR=85% RQD=61% 21.50
							R26	CR=87% RQD=33% 23.00
							R27	CR=83% RQD=57% 24.50
25.00m							R28	CR=96% RQD=60% 25.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 19/07/2017
Sheet No:		Co-ordinates E= 626 N= 1360		
BORE LOG DATA SHEET		BORE HOLE NO.28		
Field Test	Nos	Samples	Nos	Commencement Date : 13/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 14/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	3	Level Of Ground : 276.681 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.1 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
0.00m Filled up soil consists of brick solling, 0.25m & concrete. (CL)				DS-1 0.50
0.70m Greyish brown, silty clay / clayey silt with sand mixture.			>100 cm Pentn.	SPT-1 1.00-1.27
2.00m Very dense, yellowish brown, silty sand with decomposed rock. (SM)			>100 cm Pentn.	SPT-2 2.00-2.10 2.00
4.25m Completely weathered, yellowish brown, fine grained, fully decomposed & disintegrated sandstone.			10 cm Pentn. Refusal	R1 CR=NIL DS-2 RQD=NIL *SPT-3 2.75-2.78 2.75
			3.0 cm Pentn. Refusal	R2 CR=NIL DS-3 RQD=NIL *SPT-4 3.50-3.52 3.50
			2.0 cm Pentn. Refusal	R3 CR=16% DS-4 RQD=NIL *SPT-5 4.25-4.27 4.25
			2.0 cm Pentn.	R4 CR=35% RQD=13% 5.00
			NX rotary drilling from 2.00m to 25.00m	R5 CR=43% RQD=24% 5.75
				R6 CR=20% RQD=NIL 6.50
				R7 CR=27% RQD=NIL 7.25
				R8 CR=21% RQD=NIL 8.00
				R9 CR=25% RQD=NIL 8.75
				R10 CR=48% RQD=31% 9.50
				R11 CR=49% RQD=13% 10.25
				R12 CR=44% RQD=19% 11.00
				R13 CR=49% RQD=33% 11.75
				R14 CR=59% RQD=39% 12.50
				R15 CR=60% RQD=36%
11.75m Moderately to slightly weathered, brownish grey to yellowish brown, fine to medium grained, highly to moderately fractured interbedded sandstone - shale.				
13.00m				

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.28 Co-ordinates E= 626 N= 1360

Field Test	Nos	Samples	Nos	Commencement Date : 13/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 14/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	3	Level Of Ground : 276.681 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m								13.25
							R16	CR=64% RQD=40%
								14.00
							R17	CR=69% RQD=37%
								14.75
							R18	CR=64% RQD=24%
								15.50
							R19	CR=61% RQD=13%
								16.25
							R20	CR=60% RQD=24%
								17.00
							R21	CR=62% RQD=47%
								17.75
							R22	CR=64% RQD=40%
								18.50
							R23	CR=51% RQD=NIL
								19.25
							R24	CR=73% RQD=59%
								20.00
							R25	CR=52% RQD=13%
								20.75
							R26	CR=51% RQD=NIL
								21.50
							R27	CR=60% RQD=32%
								22.25
							R28	CR=77% RQD=73%
								23.00
							R29	CR=69% RQD=13%
								23.75
							R30	CR=81% RQD=67%
								24.50
							R31	CR=82% RQD=50%
								25.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST						
Job No : 3973M		Created by : S.NATH		Created on : 19/07/2017	Sheet No:	
BORE LOG DATA SHEET			BORE HOLE NO.29		Co-ordinates E= 668 N= 1346	
Field Test	Nos	Samples	Nos	Commencement Date : 11/07/17 Completion Date : 12/07/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 276.077 m. Water Struck At : Standing Water Level : 1.1 m.		
Penetrometer (SPT)	2	Undisturbed (UDS)	1			
Cone (Pc)		Penetrometer (SPT)	2			
Vane (V)		Disturbed (DS)	1			
		Water Sample (WS)	0			
DESCRIPTION		SYMBOL	N-VALUE		SAMPLES	
			EACH DIVN. = 15cm		Ref. No	Depth (m)
0.00m Filled up soil consists of silty sand, boulder pcs, concrete pcs & brick bats.					DS-1	0.50
0.65m Very dense, greyish brown, silty sand with decomposed rock fragment. (SM)					*UDS-1	1.00-1.10
2.20m					SPT-1	1.80-1.93
					*SPT-2	2.20-2.24
					R1	CR=34% RQD=20%
					R2	CR=24% RQD=NIL
					R3	CR=25% RQD=16%
					R4	CR=29% RQD=NIL
					R5	CR=31% RQD=NIL
					R6	CR=28% RQD=NIL
					R7	CR=39% RQD=27%
					R8	CR=36% RQD=21%
					R9	CR=41% RQD=31%
					R10	CR=45% RQD=16%
					R11	CR=48% RQD=27%
					R12	CR=57% RQD=36%
					R13	CR=49% RQD=NIL
					R14	CR=60% RQD=13%
					R15	CR=71% RQD=48%
10.25m Highly to moderately weathered, brownish grey to yellowish brown, fine grained, slightly fractured interbedded sandstone - shale.						
13.00m Moderately to slightly weathered, brownish grey to yellowish brown, fine grained, slightly fractured interbedded sandstone - shale.						

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.29 Co-ordinates E= 668 N= 1346

Field Test	Nos	Samples	Nos	Commencement Date : 11/07/17
Penetrometer (SPT)	2	Undisturbed (UDS)	1	Completion Date : 12/07/17
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.077 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m	↗							13.25
							R16	CR=56% RQD=35%
								14.00
							R17	CR=68% RQD=39%
								14.75
Moderately to slightly weathered, brownish grey to yellowish brown, fine grained, slightly fractured interbedded sandstone - shale.							R18	CR=67% RQD=51%
								15.50
							R19	CR=70% RQD=35%
								16.25
16.50m							R20	CR=79% RQD=44%
								17.00
							R21	CR=72% RQD=36%
								17.75
							R22	CR=75% RQD=32%
								18.50
Slightly weathered to fresh, light blackish grey, fine grained, moderately to slightly fractured interbedded sandstone - shale.							R23	CR=80% RQD=37%
								19.25
							R24	CR=84% RQD=33%
								20.00
20.00m								

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

Field Test	Nos	Samples	Nos	Commencement Date :	10/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date :	11/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter :	150 mm. / N.X
		Disturbed (DS)	1	Level Of Ground :	276.12 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	1.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m filled up soil consists of brownish grey, silty sand with boulder pcs & brickbats.							DS-1	0.50
0.60m Medium dense, yellowish brown, silty sand. (SM)		7	10	13	23		SPT-1	1.00-1.45
1.80m Hard, brownish grey, silty clay / clayey silt with decomposed rock, sand mixture & steel grey patches. (CL)					76		UDS-1	1.90-2.25
3.20m		24	37	39	12 cm Penetr.		SPT-2	2.50-2.92
		100	Refusal				*SPT-3	3.20-3.24
		NX rotary drilling from 3.20m to 25.00m					R1	CR=44% RQD=36%
					4.0 cm Penetr.		R2	CR=37% RQD=NIL
							R3	CR=39% RQD=NIL
							R4	CR=31% RQD=13%
							R5	CR=37% RQD=20%
							R6	CR=43% RQD=33%
							R7	CR=40% RQD=NIL
							R8	CR=56% RQD=40%
							R9	CR=49% RQD=23%
							R10	CR=55% RQD=27%
							R11	CR=51% RQD=35%
							R12	CR=56% RQD=13%
							R13	CR=65% RQD=35%
9.75m Moderately to slightly weathered, yellowish brown to brownish grey, fine grained, highly to moderately fractured interbedded sandstone - shale.								
13.00m								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.30 Co-ordinates E= 694 N= 1312

Field Test	Nos	Samples	Nos	Commencement Date : 10/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 11/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.12 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
13.00m Moderately to slightly weathered, yellowish brown to brownish grey, fine grained, highly to moderately fractured interbedded sandstone – shale.								R14	CR=64% RQD=32%	13.50
								R15	CR=63% RQD=35%	14.25
								R16	CR=65% RQD=31%	15.00
								R17	CR=57% RQD=13%	15.75
								R18	CR=61% RQD=20%	16.50
								R19	CR=68% RQD=37%	17.25
								R20	CR=51% RQD=NIL	18.00
								R21	CR=53% RQD=NIL	18.75
								R22	CR=67% RQD=13%	19.50
								R23	CR=84% RQD=60%	20.25
17.25m Moderately to slightly weathered / fresh, yellowish grey to light brownish grey, fine grained, slightly fractured sandstone.								R24	CR=81% RQD=69%	21.00
								R25	CR=82% RQD=30%	22.50
								R26	CR=85% RQD=69%	24.00
								R27	CR=86% RQD=70%	25.00
25.00m										
N.B. – ‘*’ means sample could not be recovered.										

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 19/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.31			Co-ordinates E= 625 N= 1310	
Field Test	Nos	Samples	Nos	Commencement Date : 10/07/17					
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 11/07/17					
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.336 m.					
		Water Sample (WS)	0	Water Struck At :					
				Standing Water Level : 1.05 m.					
DESCRIPTION			SYMBOL	N-VALUE				SAMPLES	
				EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Filled up soil consists of brownish grey, silty sand with boulder pcs & brickbats.								DS-1	0.50
0.80m Yellowish brown, silty sand.(SM)								*UDS-1	1.00-1.40
1.75m Very stiff, yellowish brown, silty clay / clayey silt with sand mixture & steel grey patches.						19		SPT-1	1.90-2.35
2.50m Very dense, brownish grey, silty sand with decomposed rock fragment & mica.(SM)						78		SPT-2	2.60-3.00
3.30m						100		*SPT-3	3.30-3.33 3.30
8.50m Highly to moderately weathered, yellowish brown to brownish grey, fine to medium grained, slightly fractured sandstone.								R1	CR=27% RQD=NIL 4.00
								R2	CR=44% RQD=19% 4.75
								R3	CR=49% RQD=40% 5.50
								R4	CR=45% RQD=20% 6.25
								R5	CR=41% RQD=36% 7.00
								R6	CR=37% RQD=17% 7.75
								R7	CR=47% RQD=17% 8.50
								R8	CR=52% RQD=NIL 9.25
								R9	CR=56% RQD=20% 10.00
								R10	CR=68% RQD=17% 10.75
								R11	CR=75% RQD=47% 11.50
								R12	CR=69% RQD=64% 12.25
								R13	CR=80% RQD=65% 13.00
13.00m									

BORE HOLE NO.31

Co-ordinates	E= 625 N= 1310
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Field Test	Nos	Samples	Nos	Commencement Date :	10/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date :	11/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter :	150 mm. / N.X
		Disturbed (DS)	1	Level Of Ground :	276.336 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	1.05 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Moderately to slightly weathered / fresh, yellowish brown to brownish grey, fine to medium grained, slightly fractured sandstone.	13.00m								13.00
								R14	CR=84% RQD=63%
									13.75
								R15	CR=83% RQD=69%
									15.25
								R16	CR=67% RQD=44%
									16.75
								R17	CR=76% RQD=52%
									17.50
								R18	CR=73% RQD=60%
									18.25
								R19	CR=69% RQD=47%
									19.00
								R20	CR=73% RQD=40%
									19.75
								R21	CR=75% RQD=67%
									20.50
								R22	CR=77% RQD=36%
									21.25
								R23	CR=72% RQD=61%
									22.00
								R24	CR=80% RQD=68%
									22.75
								R25	CR=81% RQD=49%
									23.50
								R26	CR=82% RQD=33%
25.00m									25.00

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

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

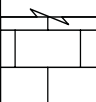
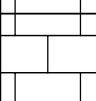
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST			
Job No : 3973M			Created by : S.NATH			Created on : 19/07/2017			Sheet No:				
BORE LOG DATA SHEET					BORE HOLE NO.32					Co-ordinates $E = 1217$ $N = 668$			
Field Test		Nos	Samples		Nos	Commencement Date : 09/07/17							
Penetrometer (SPT)		3	Undisturbed (UDS)		3	Completion Date : 10/07/17							
Cone (Pc)			Penetrometer (SPT)		3	Bore Hole Diameter : 150 mm. / N.X							
Vane (V)			Disturbed (DS)		2	Level Of Ground : 0.00 m.							
			Water Sample (WS)		0	Water Struck At :							
						Standing Water Level : 1.9 m.							
DESCRIPTION					SYMBOL	N-VALUE					SAMPLES		
						EACH DIVN. = 15cm					Ref. No	Depth (m)	
0.00m Stiff, greyish yellow, silty clay / clayey silt with sand mixture & traces of kankars. (CL)						12 5 6 6					DS-1	0.50	
											UDS-1	1.00-1.45	
											SPT-1	2.00-2.45	
											UDS-2	3.00-3.45	
4.00m Medium dense, light greyish yellow, silty sand with kankars & clay binder. (SM)						29 8 13 16					SPT-2	4.00-4.45	
5.50m Highly to moderately weathered, light yellowish grey to light grey, medium grained, highly to moderately fractured sandstone.											Refusal 100 5.0 cm Penetr. rotary drilling from 5.50m to 25.00m		
11.50m Moderately weathered, yellowish grey to light yellowish grey, medium grained, moderately fractured sandstone.						NX					*SPT-3 R1	5.50-5.55	5.50
											R2	CR=28% RQD=NIL	6.25
											R3	CR=30% RQD=NIL	7.00
											R4	CR=36% RQD=15%	7.75
											R5	CR=29% RQD=26%	8.50
											R6	CR=44% RQD=36%	9.25
											R7	CR=39% RQD=12%	10.00
											R8	CR=39% RQD=NIL	10.75
											R9	CR=48% RQD=12%	11.50
											R10	CR=56% RQD=44%	12.25
13.00m						CR=55% RQD=52%					12.25	13.00	

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.32 Co-ordinates E= 1217 N= 668

Field Test	Nos	Samples	Nos	Commencement Date : 09/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	3	Completion Date : 10/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 0.00 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.9 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Moderately weathered, yellowish grey to light yellowish grey, medium grained, moderately fractured sandstone.							R11	CR=50% RQD=18% 13.00
							R12	CR=58% RQD=48% 13.75
							R13	CR=53% RQD=42% 14.50
							R14	CR=60% RQD=42% 15.25
							R15	CR=59% RQD=NIL 16.00
							R16	CR=60% RQD=40% 16.75
							R17	CR=48% RQD=17% 17.50
							R18	CR=60% RQD=19% 18.25
							R19	CR=55% RQD=40% 19.00
							R20	CR=65% RQD=50% 19.75
Slightly weathered, light yellowish grey, medium grained, moderately fractured sandstone.							R21	CR=62% RQD=40% 20.50
							R22	CR=64% RQD=38% 21.25
							R23	CR=69% RQD=35% 22.00
							R24	CR=69% RQD=45% 22.75
							R25	CR=75% RQD=40% 23.50
							R26	CR=72% RQD=56% 24.25
								25.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 19/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.33

Co-ordinates E= 716
N= 1163

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

5

Undisturbed (UDS)

3

Cone (Pc)

Penetrometer (SPT)

5

Vane (V)

Disturbed (DS)

1

Water Sample (WS)

0

Commencement Date : 20/06/17

Completion Date : 21/06/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 277.497 m.

Water Struck At :

Standing Water Level : 2.45 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

0.00m

Filled up soil consists of light blackish grey, clayey silt with sand mixture, boulder pcs & coal pcs.

9

14

19

33

DS-1

0.50

2.20m

Soft to medium, brownish grey, silty clay / clayey silt with sand mixture. Obs. kankars. (CL)

3

2

2

4

SPT-1

1.00-1.45

5.00m

Very stiff, brownish grey, silty clay / clayey silt with sand mixture. Obs. kankars. (CL)

5

9

12

21

*UDS-1

2.00-2.45

6.00m

Very dense, light brownish grey, silty sand with decomposed rock fragments & mica. (SM)

25

47

28

>100

SPT-2

3.00-3.45

7.70m

Highly to moderately weathered, brownish grey to greyish brown, fine grained, moderately fractured sandstone.

100

6.0 cm Refusal

4.0 cm Pentn.

*SPT-3

5.00-5.45

12.00m

Moderately to slightly weathered, brownish grey to greyish brown, fine grained, moderately fractured sandstone.

13.00m

7.70m to 25.00m

7.70-7.74

7.70

8.25

9.00

9.75

10.50

11.25

12.00

12.75

R1

CR=31%
RQD=NIL

R2

CR=29%
RQD=NIL

R3

CR=37%
RQD=20%

R4

CR=28%
RQD=NIL

R5

CR=33%
RQD=13%

R6

CR=36%
RQD=NIL

R7

CR=51%
RQD=36%

Page 67/440

BH-33/Sheet-1

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 19/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.33 Co-ordinates E= 716 N= 1163

Field Test	Nos	Samples	Nos	Commencement Date : 20/06/17
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 21/06/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 277.497 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Moderately to slightly weathered, brownish grey to greyish brown, fine grained, moderately fractured sandstone.							R8	CR=63% RQD=56% 13.50
							R9	CR=65% RQD=15% 14.25
							R10	CR=56% RQD=43% 15.00
							R11	CR=71% RQD=65% 15.75
							R12	CR=59% RQD=44% 16.50
							R13	CR=69% RQD=65% 17.25
							R14	CR=64% RQD=49% 18.00
							R15	CR=63% RQD=41% 18.75
							R16	CR=81% RQD=68% 19.50
							R17	CR=85% RQD=40% 20.25
Slightly weathered to fresh, brownish grey to greyish brown, fine grained, moderately fractured sandstone.							R18	CR=82% RQD=73% 21.75
							R19	CR=86% RQD=74% 23.25
							R20	CR=84% RQD=72% 24.75
							R21	CR=84% RQD=64% 25.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.34 Co-ordinates E= 669 N= 1132

Field Test	Nos	Samples	Nos	Commencement Date : 17/06/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 19/06/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.848 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.85 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Filled up soil consists of blackish grey, clayey silt with sand mixture, coal pcs & concrete pcs.		15	17	24	41		DS-1	0.50
							SPT-1	1.00-1.45
2.00m							UDS-1	2.00-2.45
Medium, brownish grey, silty clay / clayey silt. Obs. sand mixture & kankars. (CL)		3	3	4	7		SPT-2	3.00-3.45
							*UDS-2	4.00-4.40
5.00m		4	6	8	14		SPT-3	5.00-5.45
Stiff to very stiff, brownish grey, silty clay / clayey silt. Obs. sand mixture & kankars. (CL)							UDS-3	6.00-6.45
		8	10	16	26		SPT-4	7.00-7.45
7.70m								
Very dense, brownish grey, silty sand with decomposed rock fragments & mica. (SM)		17	31	52	>100	3.5 cm Pentn.	SPT-5	8.00-8.41
8.80m		100				Refusal	*SPT-6	8.80-8.84 8.80
						4.0 cm Pentn.	R1	CR=24% RQD=NIL 9.50
						NX rotary drilling from 8.80m to 25.00m	R2	CR=31% RQD=NIL 10.25
							R3	CR=25% RQD=NIL 11.00
							R4	CR=32% RQD=17% 11.75
							R5	CR=35% RQD=NIL 12.50
							R6	CR=43% RQD=37%
13.00m								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.34 Co-ordinates E= 669 N= 1132

Field Test	Nos	Samples	Nos	Commencement Date : 17/06/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 19/06/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.848 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.85 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m Highly to moderately weathered, brownish grey to greyish brown, fine grained, highly to moderately fractured sandstone.							R7	13.25
							R8	14.00
14.75m							R9	14.75
							R10	15.50
							R11	16.25
							R12	17.00
							R13	17.75
							R14	18.50
							R15	19.25
Moderately to slightly weathered, brownish grey to greyish brown, fine grained, highly to moderately fractured sandstone.							R16	20.00
							R17	20.75
							R18	21.50
							R19	22.25
							R20	23.00
							R21	23.75
							R22	24.50
25.00m								25.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.35		Co-ordinates E= 669 N= 1083		
Field Test	Nos	Samples	Nos	Commencement Date : 30/06/17					
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 01/07/17					
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.899 m.					
		Water Sample (WS)	0	Water Struck At :					
				Standing Water Level : 3.05 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									
Filled up soil consists of brownish yellow, sandy silt.							DS-1	0.50	
1.00m							SPT-1	1.00-1.45	
							UDS-1	2.00-2.45	
Medium, light brownish grey, clayey silt with sand mixture & kankars. (CL)							SPT-2	3.00-3.45	
							UDS-2	4.00-4.45	
5.00m							SPT-3	5.00-5.45	
Stiff, light brownish grey, clayey silt with sand mixture & kankars. (CL)							UDS-3	6.00-6.35	
6.50m									
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)							*SPT-4	6.70-6.72 6.70	
6.70m							R1	CR=25% RQD=NIL	
							R2	CR=40% RQD=28%	
							R3	CR=35% RQD=NIL	
							R4	CR=36% RQD=NIL	
							R5	CR=45% RQD=19%	
10.50m							R6	CR=52% RQD=36%	
							R7	CR=56% RQD=42%	
							R8	CR=46% RQD=NIL	
13.00m								12.75	

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.35 Co-ordinates E= 669 N= 1083

Field Test	Nos	Samples	Nos	Commencement Date : 30/06/17
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 01/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.899 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.05 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m							R9	CR=52% RQD=25%	13.50
Moderately weathered, greyish yellow to light grey, medium to coarse grained, highly to moderately fractured sandstone.							R10	CR=50% RQD=26%	14.25
							R11	CR=58% RQD=45%	15.00
							R12	CR=45% RQD=12%	15.75
							R13	CR=65% RQD=60%	16.50
15.75m							R14	CR=70% RQD=40%	17.25
Slightly weathered, greyish yellow, medium to fine grained, slightly fractured sandstone.							R15	CR=65% RQD=40%	18.00
							R16	CR=72% RQD=60%	18.75
							R17	CR=69% RQD=50%	19.50
							R18	CR=82% RQD=24%	20.00
20.00m									

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.36		Co-ordinates E= 782 N= 1080		
Field Test	Nos	Samples		Nos	Commencement Date : 28/06/17				
Penetrometer (SPT)	6	Undisturbed (UDS)		3	Completion Date : 29/06/17				
Cone (Pc)		Penetrometer (SPT)		6	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		1	Level Of Ground : 276.396 m.				
		Water Sample (WS)		0	Water Struck At :				
					Standing Water Level : 2.75 m.				
DESCRIPTION				SYMBOL	N-VALUE			SAMPLES	
					EACH DIVN. = 15cm			Ref. No	Depth (m)
0.00m									
Brownish grey, clayey silty sand. (SM)								DS-1	0.50
								UDS-1	1.00-1.45
2.00m									
Medium, brownish grey to yellowish grey, silty clay / clayey silt with sand mixture. (CL)								SPT-1	2.00-2.45
								UDS-2	3.00-3.45
4.00m									
Stiff to very stiff, brownish grey to yellowish grey, silty clay / clayey silt with sand mixture. (CL)								SPT-2	4.00-4.45
								UDS-3	5.00-5.45
								SPT-3	6.00-6.45
								SPT-4	7.00-7.45
7.80m									
Very dense, yellowish brown, silty sand (SM) with traces of decomposed rock fragments.								SPT-5	7.90-8.15
8.20m								*SPT-6	8.30-8.34
Highly weathered, yellowish grey, medium to fine grained, highly to moderately fractured sandstone. Obs. water stain.								R1	CR=22% RQD=NIL
								R2	CR=25% RQD=NIL
9.75m								R3	CR=35% RQD=NIL
Highly to moderately weathered, yellowish grey, medium to fine grained, highly to moderately fractured sandstone. Obs. water stain.								R4	CR=36% RQD=NIL
								R5	CR=49% RQD=20%
12.00m								R6	CR=51% RQD=31%
Moderately to slightly weathered, yellowish grey, fine grained, moderately to slightly fractured sandstone.									
13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST					
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017			Sheet No:						
BORE LOG DATA SHEET					BORE HOLE NO.36					Co-ordinates E= 782 N= 1080					
Field Test		Nos	Samples		Nos	Commencement Date : 28/06/17 Completion Date : 29/06/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 276.396 m. Water Struck At : Standing Water Level : 2.75 m.									
Penetrometer (SPT)		6	Undisturbed (UDS)		3										
Cone (Pc)			Penetrometer (SPT)		6										
			Disturbed (DS)		1										
Vane (V)			Water Sample (WS)		0										
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES						
						EACH DIVN. = 15cm			Ref. No	Depth (m)					
13.00m 25.00m Moderately to slightly weathered, yellowish grey, fine grained, moderately to slightly fractured sandstone. N.B. — '*' means sample could not be recovered.												R7	CR=52% RQD=32%	13.50	
													R8	CR=61% RQD=21%	14.25
													R9	CR=63% RQD=48%	15.00
													R10	CR=65% RQD=41%	15.75
													R11	CR=64% RQD=36%	16.50
													R12	CR=72% RQD=47%	17.25
													R13	CR=67% RQD=44%	18.00
													R14	CR=76% RQD=60%	18.75
													R15	CR=65% RQD=25%	19.50
													R16	CR=68% RQD=48%	20.25
													R17	CR=63% RQD=21%	21.00
													R18	CR=64% RQD=44%	21.75
													R19	CR=65% RQD=16%	22.50
													R20	CR=67% RQD=37%	23.25
													R21	CR=69% RQD=39%	24.00
													R22	CR=72% RQD=44%	24.50
													R23	CR=78% RQD=45%	25.00

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 26/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.37

Co-ordinates E= 757
N= 1111

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

7

Undisturbed (UDS)

4

Cone (Pc)

Penetrometer (SPT)

7

Vane (V)

Disturbed (DS)

1

Water Sample (WS)

1

Commencement Date : 24/06/17

Completion Date : 25/06/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 277.751 m.

Water Struck At :

Standing Water Level : 3.05 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

0.00m

Filled up soil consists of deep grey, sandy clayey silt with rock dust, iron pcs, brick dust etc.

2.40m

Medium dense, greyish yellow, yellow, silty sand with clay binders & mica. Obs. decomposed rock fragments. (SM)

8.00m

Very dense, greyish yellow, yellow, silty sand with clay binders & mica. Obs. decomposed rock fragments. (SM)

10.50m

Highly to moderately weathered, yellowish grey, coarse to medium grained, moderately fractured sandstone.

13.00m

21

17

13

25

>100

>100

Refusal

5.0 cm Pentn.

NX rotary drilling from 10.50m to 25.00m

8

9

12

7

9

8

6

6

7

6

10

15

40

60

10

100

100

DS-1

SPT-1

*UDS-1

SPT-2

WS-1

*UDS-2

SPT-3

UDS-3

SPT-4

*UDS-4

SPT-5

SPT-6

*SPT-7

R1

R2

R3

0.50

1.00-1.45

2.00-2.45

3.00-3.45

3.05

4.00-4.45

5.00-5.45

6.00-6.45

7.00-7.45

8.00-8.45

9.00-9.25

10.00-10.10

10.50-10.55

10.50

11.25

12.00

12.75

Page 75/440

BH-37/Sheet-1

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:		
BORE LOG DATA SHEET					BORE HOLE NO.37			Co-ordinates E= 757 N= 1111			
Field Test		Nos	Samples		Nos	Commencement Date : 24/06/17 Completion Date : 25/06/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 277.751 m. Water Struck At : Standing Water Level : 3.05 m.					
Penetrometer (SPT)		7	Undisturbed (UDS)		4						
Cone (Pc)			Penetrometer (SPT)		7						
Vane (V)			Disturbed (DS)		1						
			Water Sample (WS)		1						
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES		
						EACH DIVN. = 15cm			Ref. No	Depth (m)	
Highly to moderately weathered, yellowish grey, coarse to medium grained, moderately fractured sandstone.									R4	CR=39% RQD=17%	13.00m 13.50m
									R5	CR=56% RQD=40%	14.25m
									R6	CR=59% RQD=24%	15.00m
									R7	CR=55% RQD=32%	15.75m
Moderately weathered, yellowish grey, coarse to medium grained, moderately fractured sandstone.									R8	CR=60% RQD=12%	16.50m
									R9	CR=60% RQD=24%	17.25m
									R10	CR=58% RQD=27%	18.00m
									R11	CR=60% RQD=53%	18.75m
									R12	CR=56% RQD=40%	19.50m
									R13	CR=66% RQD=60%	20.25m
									R14	CR=78% RQD=48%	21.00m
									R15	CR=73% RQD=51%	21.75m
									R16	CR=75% RQD=55%	22.50m
									R17	CR=80% RQD=45%	23.25m
									R18	CR=83% RQD=43%	24.00m
									R19	CR=78% RQD=59%	25.00m
Slightly weathered, yellowish grey, medium grained, slightly fractured sandstone.											
N.B. - '*' means sample could not be recovered.											

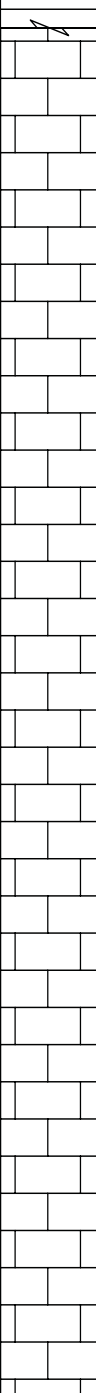
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017			Sheet No:		
BORE LOG DATA SHEET					BORE HOLE NO.38			Co-ordinates E= 752 N= 1144			
Field Test		Nos	Samples		Nos	Commencement Date : 26/06/17					
Penetrometer (SPT)		6	Undisturbed (UDS)		4	Completion Date : 27/06/17					
Cone (Pc)			Penetrometer (SPT)		6	Bore Hole Diameter : 150 mm. / N.X					
			Disturbed (DS)		1	Level Of Ground : 277.706 m.					
Vane (V)			Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.9 m.					
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES		
						EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m											
Filled up soil consists of clayey silty sand & calcareous, kankars, brickbats.					12	14	25	39	DS-1	0.50	
									SPT-1	1.00-1.45	
									*UDS-1	2.00-2.45	
2.50m											
Loose, greyish yellow, clayey sandy silt with mica & sand mixture. Obs. a clay pocket found at UDS-03. (SM)					3	4	6	10	SPT-2	3.00-3.45	
									UDS-2	4.00-4.45	
									SPT-3	5.00-5.45	
					4	4	4	8	UDS-3	6.00-6.45	
6.50m									SPT-4	7.00-7.45	
Dense, greyish yellow, sandy silt with clay binder & calcareous nodules.(SM)					18	22	27	49			
7.90m									*UDS-4	8.00-8.20	
Very dense, light brownish grey, silty sand with traces of decomposed rock. (SM)					100	10	>100	Refusal	SPT-5	8.30-8.40	
8.50m					100	4.0	cm	Pentn.	*SPT-6	8.50-8.54 8.50	
					NX rotary drilling from 8.50m to 25.00m			R1	CR=37% RQD=23%		
									R2	CR=40% RQD=35%	
									R3	CR=32% RQD=NIL	
									R4	CR=35% RQD=NIL	
									R5	CR=37% RQD=17%	
									R6	CR=39% RQD=16%	
13.00m										13.00	

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.38 Co-ordinates E= 752 N= 1144

Field Test	Nos	Samples	Nos	Commencement Date : 26/06/17
Penetrometer (SPT)	6	Undisturbed (UDS)	4	Completion Date : 27/06/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 277.706 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.9 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Moderately to slightly weathered, yellowish brown to brownish grey, medium to fine grained, slightly fractured sandstone.							R7	13.00 CR=51% RQD=28%
							R8	13.75 CR=52% RQD=37%
							R9	14.50 CR=56% RQD=15%
							R10	15.25 CR=57% RQD=45%
							R11	16.00 CR=53% RQD=25%
							R12	16.75 CR=55% RQD=33%
							R13	17.50 CR=59% RQD=13%
							R14	18.25 CR=61% RQD=44%
							R15	19.00 CR=59% RQD=28%
							R16	19.75 CR=65% RQD=47%
							R17	20.50 CR=61% RQD=32%
							R18	21.25 CR=67% RQD=55%
							R19	22.00 CR=64% RQD=40%
							R20	22.75 CR=67% RQD=52%
							R21	23.50 CR=76% RQD=65%
							R22	24.25 CR=77% RQD=64%
								25.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST			
Job No : 3973M	Created by : S.NATH	Created on : 26/07/2017	Sheet No:
BORE LOG DATA SHEET		BORE HOLE NO.39	Co-ordinates E= 757 N= 1252

Field Test	Nos	Samples	Nos	Commencement Date : 12/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 13/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.298 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.45 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Filled up soil consist of filling sand, boulder pcs & brick pcs.							DS-1	0.50
0.80m Very stiff, yellowish brown, silty clay / clayey silt with sand mixture. (CL)		5	8	9	17		SPT-1	1.00-1.45
2.70m Very dense, light brownish grey, silty sand with decomposed rock fragment & mica.(SM)		30	50	15	>100		UDS-1	2.00-2.45
3.50m		50			2.0 cm Pentn. Refusal		SPT-2	3.00-3.32
Highly to moderately weathered, brownish grey, fine grained, highly to moderately fractured interbedded sandstone - shale.					4.0 cm Pentn.		*SPT-3	3.50-3.54 3.50
					NX rotary drilling from 3.50m to 25.00m		R1	CR=30% RQD=NIL 4.25
							R2	CR=25% RQD=NIL 5.00
							R3	CR=24% RQD=NIL 5.75
							R4	CR=27% RQD=NIL 6.50
							R5	CR=33% RQD=24% 7.25
							R6	CR=36% RQD=NIL 8.00
							R7	CR=29% RQD=NIL 8.75
							R8	CR=31% RQD=NIL 9.50
							R9	CR=28% RQD=NIL 10.25
							R10	CR=48% RQD=33% 11.00
							R11	CR=44% RQD=39% 11.75
							R12	CR=51% RQD=28% 12.50
13.00m							R13	CR=56% RQD=44%

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET **BORE HOLE NO.39** Co-ordinates E= 757
N= 1252

Field Test	Nos	Samples	Nos	Commencement Date : 12/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 13/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.298 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.45 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
13.00m Moderately to slightly weathered / fresh, yellowish brown to brownish grey, fine to medium grained, moderately slightly fractured interbedded sandstone - shale.								R14	13.25 CR=55% RQD=27%
									14.00
									14.75
									15.50
									16.25
									17.00
									17.75
									18.50
									20.00
									21.50
17.00m Moderately to slightly weathered / fresh, yellowish brown to brownish grey, fine to medium grained, moderately slightly fractured interbedded sandstone - shale.								R19	17.00 CR=83% RQD=64%
									17.75
									18.50
									20.00
									21.50
									23.00
									24.50
									25.00
									25.00
									25.00
25.00m								R25	24.50 CR=90% RQD=88%
									25.00
N.B. — ‘*’ means sample could not be recovered.									

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.40

Co-ordinates E= 757
N= 1284

Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 09/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.057 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.35 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Filled up soil consists of brownish grey, sandy silt with boulder pcs & stonechip.							DS-1	0.50
0.85m Stiff, brownish grey, silty clay / clayey silt with sand mixture. (CL)		3	7	8	15		SPT-1	1.00-1.45
2.60m Hard, brownish grey, clayey silt with sand mixture & decomposed fragment. (CL)		6	14	20	34		UDS-1	2.00-2.45
4.00m NX rotary drilling from 4.00m to 25.00m		22	39	39	78	10 cm Pentn.	SPT-2	2.70-3.15
		100				Refusal	SPT-3	3.40-3.80
						5.0 cm Pentn.	*SPT-4	4.00-4.05 4.00
							R1	CR=29% RQD=NIL 4.75
							R2	CR=28% RQD=16% 5.50
							R3	CR=25% RQD=NIL 6.25
							R4	CR=36% RQD=NIL 7.00
							R5	CR=40% RQD=16% 7.75
							R6	CR=47% RQD=23% 8.50
							R7	CR=35% RQD=NIL 9.25
							R8	CR=39% RQD=NIL 10.00
							R9	CR=47% RQD=45% 10.75
							R10	CR=43% RQD=NIL 11.50
							R11	CR=47% RQD=24% 12.25
							R12	CR=40% RQD=NIL 13.00

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 15/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.40		Co-ordinates E= 757 N= 1284		
Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17					
Penetrometer (SPT)	4	Undisturbed (UDS)	1	Completion Date : 09/07/17					
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.057 m.					
		Water Sample (WS)	0	Water Struck At :					
				Standing Water Level : 1.35 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
13.00m									
Highly to moderately weathered, yellowish brown to brownish grey, fine grained, highly to moderately fractured interbedded sandstone - shale.							R13	CR=35% RQD=NIL	13.00
							R14	CR=41% RQD=19%	13.75
							R15	CR=44% RQD=33%	14.50
							R16	CR=40% RQD=15%	15.25
16.00m									
Moderately to slightly weathered, brownish grey, fine grained, highly to moderately fractured interbedded sandstone - shale.							R17	CR=53% RQD=28%	16.00
							R18	CR=64% RQD=47%	16.75
							R19	CR=57% RQD=47%	17.50
							R20	CR=63% RQD=NIL	18.25
							R21	CR=61% RQD=NIL	19.00
							R22	CR=56% RQD=36%	19.75
							R23	CR=65% RQD=33%	20.50
							R24	CR=68% RQD=55%	21.25
21.25m									
Slightly weathered to fresh, yellowish brown to light grey, fine grained, slightly fractured interbedded sandstone - shale.							R25	CR=70% RQD=32%	22.00
							R26	CR=79% RQD=65%	22.75
							R27	CR=87% RQD=76%	23.50
							R28	CR=92% RQD=84%	24.25
25.00m									
N.B. - '*' means sample could not be recovered.									

BH-40/Sheet-2

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 15/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.41

Co-ordinates

E= 764

N= 1327

Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 09/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.214 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Filled up soil consists of brownish grey, sandy silt / silty sand with boulder pcs & brickbats.							DS-1	0.50
		7	11	15	26		SPT-1	1.00-1.45
Medium dense, brownish grey to light grey, silty sand with decomposed fragment. (SM)							*UDS-1	2.00-2.35
		41	50	10	>100	cm Pentn.	SPT-2	2.80-3.05
		100				Refusal	*SPT-3	3.30-3.34 3.30
Moderately weathered, brownish grey, medium grained sandstone.						4.0 cm Pentn.	R1	CR=41% RQD=28% 4.00
						NX rotary drilling from 3.30m to 25.00m	R2	CR=23% RQD=NIL 4.75
							R3	CR=29% RQD=NIL 5.50
							R4	CR=27% RQD=NIL 6.25
							R5	CR=29% RQD=NIL 7.00
Highly weathered, brownish grey, fine grained, highly fractured interbedded sandstone - shale.							R6	CR=28% RQD=NIL 7.75
							R7	CR=30% RQD=NIL 8.50
							R8	CR=33% RQD=NIL 9.25
							R9	CR=27% RQD=NIL 10.00
							R10	CR=31% RQD=20% 10.75
							R11	CR=43% RQD=17% 11.50
							R12	CR=33% RQD=NIL 12.25
							R13	CR=47% RQD=13% 13.00

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 15/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.41

Co-ordinates E= 764
N= 1327

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

3

Undisturbed (UDS)

1

Cone (Pc)

Penetrometer (SPT)

3

Vane (V)

Disturbed (DS)

1

Water Sample (WS)

0

Commencement Date : 08/07/17

Completion Date : 09/07/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 276.214 m.

Water Struck At :

Standing Water Level : 1.1 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

Highly weathered, yellowish brown to brownish grey, fine grained, moderately fractured interbedded sandstone - shale.

13.00m

13.75m

Moderately to slightly weathered, yellowish brown to brownish grey, fine grained, moderately fractured interbedded sandstone - shale.

17.50m

Slightly weathered, light brownish grey, fine grained, moderately fractured interbedded sandstone - shale.

21.25m

Slightly weathered to fresh, brownish grey to light grey, fine grained, slightly fractured sandstone.

25.00m

R14

CR=48%
RQD=21%

R15

CR=51%
RQD=13%

R16

CR=67%
RQD=50%

R17

CR=55%
RQD=57%

R18

CR=60%
RQD=51%

R19

CR=57%
RQD=36%

R20

CR=64%
RQD=NIL

R21

CR=66%
RQD=NIL

R22

CR=63%
RQD=51%

R23

CR=67%
RQD=16%

R24

CR=69%
RQD=17%

R25

CR=75%
RQD=44%

R26

CR=71%
RQD=63%

R27

CR=83%
RQD=57%

R28

CR=77%
RQD=63%

R29

CR=80%
RQD=68%

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 15/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.42

Co-ordinates E= 827
N= 1319

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

7

Undisturbed (UDS)

2

Cone (Pc)

Penetrometer (SPT)

7

Vane (V)

Disturbed (DS)

3

Water Sample (WS)

0

Commencement Date : 07/07/17

Completion Date : 08/07/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 276.198 m.

Water Struck At :

Standing Water Level : 1.55 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

0.00m

Filled up with yellowish brown, sandy silt with boulder pcs, brickbats & sand.

0.80m

Medium dense, yellowish brown, silty sand with decomposed rock & steel grey patches & clay binder. (SM)

4.00m

Dense to very dense, yellowish brown, silty sand with decomposed rock & steel grey patches & clay binder. (SM)

6.50m

Completely weathered, brownish grey, medium grained, fully decomposed & disintegrated interbedded sandstone - shale.

8.00m

Highly weathered, brownish grey to light blackish grey, fine grained, highly fractured interbedded sandstone - shale.

9.50m

Highly to moderately weathered, brownish grey to light blackish grey, fine grained, highly fractured interbedded sandstone - shale.

13.00m

8

14

15

29

9

17

24

41

13

20

28

48

27

50

222.0 cm Pentn.

Refusal

3.0 cm Pentn.

Refusal

3.0 cm Pentn.

Refusal

4.0 cm Pentn.

NX rotary drilling from 6.50m to 25.00m

DS-1

*UDS-1

SPT-1

UDS-2

SPT-2

SPT-3

SPT-4

*SPT-5

R1 DS-2

*SPT-6

R2 DS-3

*SPT-7

R3

R4

R5

R6

R7

R8

R9

0.50

1.00-1.45

2.00-2.45

3.00-3.45

4.00-4.45

5.00-5.45

6.00-6.32

6.50-6.53

7.25-7.28

8.00-8.04

CR=20% RQD=NIL

CR=24% RQD=NIL

CR=31% RQD=NIL

CR=28% RQD=NIL

CR=29% RQD=13%

CR=23% RQD=NIL

CR=28% RQD=NIL

6.50

7.25

8.00

8.75

9.50

10.25

11.00

11.75

12.50

Page 85/440

BH-42/Sheet-1

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST										
Job No : 3973M			Created by : S.NATH			Created on : 15/07/2017		Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO.42			Co-ordinates E= 827 N= 1319			
Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17						
Penetrometer (SPT)	7	Undisturbed (UDS)	2	Completion Date : 08/07/17						
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X						
Vane (V)		Disturbed (DS)	3	Level Of Ground : 276.198 m.						
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.55 m.						
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES			
				EACH DIVN. = 15cm			Ref. No	Depth (m)		
13.00m Highly to moderately weathered, brownish grey to light blackish grey, fine grained, highly fractured interbedded sandstone - shale.									13.25 CR=31% RQD=NIL 14.00 CR=29% RQD=NIL 14.75 CR=30% RQD=NIL 15.50 CR=31% RQD=13% 16.25 CR=39% RQD=NIL 17.00 CR=32% RQD=NIL 17.75 CR=39% RQD=NIL 18.50 CR=36% RQD=17% 19.25 CR=48% RQD=NIL 20.00 CR=59% RQD=16% 20.75 CR=69% RQD=17% 21.50 CR=67% RQD=33% 22.25 CR=77% RQD=73% 23.00 CR=73% RQD=53% 23.75 CR=76% RQD=56% 24.50 CR=92% RQD=80% 25.00	
										R10
										R11
										R12
										R13
										R14
										R15
										R16
										R17
										R18
20.00m									20.00 CR=59% RQD=16% 20.75 CR=69% RQD=17% 21.50 CR=67% RQD=33% 22.25 CR=77% RQD=73% 23.00 CR=73% RQD=53% 23.75 CR=76% RQD=56% 24.50 CR=92% RQD=80% 25.00	
Moderately to slightly weathered, brownish grey to light blackish grey, fine grained, highly fractured interbedded sandstone - shale.										R19
										R20
										R21
										R22
										R23
										R24
										R25
25.00m										
N.B. - '*' means sample could not be recovered.										

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.43 Co-ordinates E= 855 N= 1260

Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.429 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.8 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Filled up soil consists of brownish grey, clayey silt with sand mixture, boulder pcs & brickbats.							DS-1	0.50
		7	9	13	22		SPT-1	1.00-1.45
Very stiff, yellowish brown, silty clay / clayey silt with sand mixture & steel grey patches.							UDS-1	2.00-2.45
(CL)		8	10	15	25		SPT-2	3.00-3.45
		10	16	27	43		SPT-3	4.00-4.45
Hard, yellowish brown, silty clay / clayey silt with sand (CL) mixture & steel grey patches		17	31	50	81		SPT-4	5.00-5.40
Very dense, brownish grey, sandy silt / silty sand with decomposed rock fragment & steel grey patches.						10 cm Pentn. Refusal		
		100					*SPT-5	6.00-6.04 6.00
						4.0 cm Pentn. NX rotary drilling from 6.00m to 25.00m	R1	CR=25% RQD=13% 6.75
							R2	CR=33% RQD=17% 7.50
							R3	CR=24% RQD=NIL 8.25
Highly to moderately weathered, brownish grey to yellowish brown, fine grained, moderately fractured interbedded sandstone - shale.							R4	CR=27% RQD=NIL 9.00
							R5	CR=33% RQD=16% 9.75
							R6	CR=32% RQD=21% 10.50
							R7	CR=40% RQD=15% 11.25
							R8	CR=56% RQD=44% 12.00
Moderately to slightly weathered, brownish grey to yellowish brown, fine grained, moderately fractured interbedded sandstone - shale.							R9	CR=55% RQD=53% 12.75
								13.00

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.43 Co-ordinates E= 855 N= 1260

Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.429 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.8 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m							R10	CR=53% RQD=37% 13.50
							R11	CR=37% RQD=13% 14.25
Moderately to slightly weathered, brownish grey to yellowish brown, fine grained, moderately fractured interbedded sandstone - shale.							R12	CR=45% RQD=24% 15.00
							R13	CR=56% RQD=32% 15.75
							R14	CR=63% RQD=40% 16.50
16.50m							R15	CR=69% RQD=NIL 17.25
Slightly weathered, brownish grey to light blackish grey, fine grained, moderately fractured interbedded sandstone - shale.							R16	CR=72% RQD=15% 18.00
							R17	CR=69% RQD=33% 18.75
18.75m							R18	CR=76% RQD=27% 19.50
							R19	CR=89% RQD=71% 20.25
							R20	CR=92% RQD=44% 21.00
							R21	CR=83% RQD=72% 22.50
							R22	CR=81% RQD=55% 24.00
							R23	CR=84% RQD=46% 25.00
25.00m								

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 26/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.44

Co-ordinates E= 827
N= 1224

Field Test	Nos	Samples	Nos	Commencement Date : 05/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 07/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.415 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.8 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Filled up soil consists of filled up by road materials.							
0.60m						DS-1	0.50
		5	5	6	11	SPT-1	1.00-1.45
						UDS-1	2.00-2.45
Stiff to very stiff, greyish yellow, silty clay / clayey silt with traces of kankars & sand mixture. (CL)		6	8	10	18	SPT-2	3.00-3.45
						UDS-2	4.00-4.45
5.00m		12	22	26	48	SPT-3	5.00-5.45
Dense to very dense, yellowish grey to greyish yellow, silty coarse sand. Obs. decomposed rock fragment.(SM)					Refusal	*SPT-4	6.00-6.05 6.00
6.00m		100				R1	CR=28% RQD=NIL
					5.0 cm Penetr. NX rotary drilling from 6.00m to 25.00m	R2	CR=30% RQD=20%
						R3	CR=25% RQD=NIL
						R4	CR=29% RQD=NIL
						R5	CR=36% RQD=NIL
Highly to moderately weathered, greyish yellow, coarse to medium grained, highly to moderately fractured sandstone.						R6	CR=35% RQD=16%
						R7	CR=39% RQD=28%
						R8	CR=38% RQD=18%
						R9	CR=42% RQD=NIL
13.00m							12.75

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.44 Co-ordinates E= 827 N= 1224

Field Test	Nos	Samples	Nos	Commencement Date : 05/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 07/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.415 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.8 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly to moderately weathered, greyish yellow, coarse to medium grained, highly to moderately fractured sandstone.								R10	CR=45% RQD=29%
									13.00m 13.50m
Slightly weathered to fresh, light grey to greyish yellow, medium grained, moderately to slightly fractured sandstone.								R11	CR=52% RQD=30%
									14.25
								R12	CR=56% RQD=37%
									15.00
								R13	CR=62% RQD=40%
									15.75
								R14	CR=57% RQD=27%
									16.50
								R15	CR=45% RQD=19%
									17.25
								R16	CR=53% RQD=22%
									18.00
								R17	CR=59% RQD=30%
									18.75
								R18	CR=47% RQD=40%
									19.50
								R19	CR=50% RQD=25%
									20.25
								R20	CR=68% RQD=30%
									21.00
								R21	CR=69% RQD=28%
									21.75
								R22	CR=71% RQD=39%
									22.50
								R23	CR=76% RQD=56%
									23.25
								R24	CR=83% RQD=51%
									24.00
								R25	CR=80% RQD=35%
									25.00m

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.45		Co-ordinates E= 1203 N= 855		
Field Test	Nos	Samples		Nos	Commencement Date : 11/07/17				
Penetrometer (SPT)	7	Undisturbed (UDS)		3	Completion Date : 12/07/17				
Cone (Pc)		Penetrometer (SPT)		7	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		2	Level Of Ground : 276.594 m.				
		Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.0 m.				
DESCRIPTION				SYMBOL	N-VALUE		SAMPLES		
					EACH DIVN. = 15cm		Ref. No	Depth (m)	
0.00m									
Very stiff, greyish yellow, silty clay clayey silt with traces of kankars & sand mixture. (CL)				5 7 9	16		DS-1	0.50	
							UDS-1	1.00-1.45	
							SPT-1	2.00-2.45	
							UDS-2	3.00-3.45	
				8 8 10	18		SPT-2	4.00-4.45	
							*UDS-3	5.00-5.45	
5.50m									
Hard, light yellowish grey, clayey silt with sand mixture. Obs. decomposed rock dust. (CL)				24 36 40	>100		SPT-3	6.00-6.35	
							SPT-4	7.00-7.18	
7.50m							*SPT-5	7.50-7.53	7.50
Completely to highly weathered, light yellowish grey to light grey, medium to fine grained, highly fractured interbedded sandstone - shale.				100	3.0 cm	Pentr.	R1	CR=14% RQD=NIL	↓
								*SPT-6	8.25-8.29
				100	4.0 cm	Pentr.	R2	CR=18% RQD=NIL	↓
								*SPT-7	9.00-9.02
9.75m							R3	CR=22% RQD=15%	↓
Highly to moderately weathered, light yellowish grey to light grey, medium to fine grained, highly fractured interbedded sandstone - shale.				100	2.0 cm	Pentr.	R4	CR=28% RQD=NIL	↓
									10.50
							R5	CR=38% RQD=17%	↓
							R6	CR=37% RQD=NIL	↓
							R7	CR=38% RQD=NIL	↓
13.00m								12.75	↓

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.45 Co-ordinates E= 1203 N= 855

Field Test	Nos	Samples	Nos	Commencement Date : 11/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	3	Completion Date : 12/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.594 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.0 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Highly to moderately weathered, light yellowish grey to light grey, medium to fine grained, highly fractured interbedded sandstone - shale.							R8	CR=35% RQD=18% 13.00m 13.50m
							R9	CR=42% RQD=NIL 14.25m
Highly to moderately weathered, light yellowish grey to light grey, medium to fine grained, highly to moderately fractured sandstone.							R10	CR=47% RQD=NIL 15.00m
							R11	CR=48% RQD=25% 15.75m
							R12	CR=45% RQD=NIL 16.50m
							R13	CR=47% RQD=NIL 17.25m
							R14	CR=50% RQD=15% 18.00m
							R15	CR=52% RQD=NIL 18.75m
							R16	CR=55% RQD=42% 19.50m
							R17	CR=60% RQD=45% 20.25m
							R18	CR=69% RQD=25% 21.00m
							R19	CR=72% RQD=40% 21.75m
Moderately to slightly weathered / fresh, light yellowish grey, medium grained, moderately fractured sandstone.							R20	CR=70% RQD=26% 22.50m
							R21	CR=80% RQD=54% 23.25m
							R22	CR=79% RQD=45% 24.00m
							R23	CR=83% RQD=66% 25.00m

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 15/07/2017			Sheet No:		
BORE LOG DATA SHEET					BORE HOLE NO.46					Co-ordinates E= 822 N= 1189	
Field Test		Nos	Samples		Nos	Commencement Date : 07/07/17					
Penetrometer (SPT)		6	Undisturbed (UDS)		3	Completion Date : 08/07/17					
Cone (Pc)			Penetrometer (SPT)		6	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)			Disturbed (DS)		2	Level Of Ground : 276.131 m.					
			Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.2 m.					
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES		
						EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									DS-1	0.50	
									UDS-1	1.00-1.45	
Stiff to very stiff, greyish yellow, silty clay / clayey with traces of kankars & sand mixture. (CL)					3	4	6	10	SPT-1	2.00-2.45	
									UDS-2	3.00-3.45	
					4	8	9	17	SPT-2	4.00-4.45	
4.50m									*UDS-3	5.00-5.28	
Very dense, yellowish grey, silty sand & decomposed rock fragment. (SM)					36	64	5.0	≥100 cm Penetr. Refusal	SPT-3	5.80-6.00	
6.50m					100	5.0 cm Penetr. Refusal			*SPT-4	6.50-6.55	6.50
					100	4.0 cm Penetr. Refusal			R1	CR=15% RQD=NIL	↓
Completely to highly weathered, greyish yellow, medium grained, highly fractured sandstone.					100	2.0 cm Penetr. Refusal			*SPT-5	7.25-7.29	7.25
					NX	rotary drilling from 6.50m to 25.00m			R2	CR=19% RQD=NIL	↓
									*SPT-6	8.00-8.02	8.00
									R3	CR=26% RQD=NIL	↓
									R4	CR=24% RQD=NIL	8.75
									R5	CR=35% RQD=28%	9.50
9.50m									R6	CR=40% RQD=36%	10.25
Highly to moderately weathered, greyish yellow to light grey, medium grained, moderately fractured sandstone.									R7	CR=44% RQD=38%	11.00
									R8	CR=48% RQD=18%	11.75
									R9	CR=45% RQD=26%	12.50
13.00m											↕

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.46 Co-ordinates E= 822 N= 1189

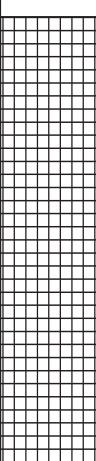
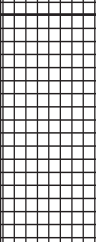
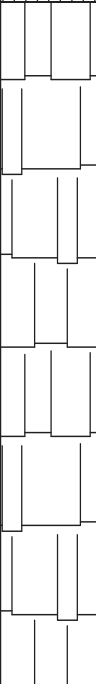
Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.131 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m								13.25
13.25m							R10	CR=55% RQD=22%
							R11	CR=53% RQD=40%
							R12	CR=55% RQD=18%
							R13	CR=57% RQD=45%
							R14	CR=58% RQD=46%
							R15	CR=50% RQD=26%
							R16	CR=53% RQD=48%
							R17	CR=54% RQD=30%
							R18	CR=60% RQD=14%
							R19	CR=55% RQD=40%
							R20	CR=52% RQD=21%
							R21	CR=56% RQD=NIL
							R22	CR=50% RQD=19%
23.00m							R23	CR=60% RQD=35%
							R24	CR=64% RQD=NIL
							R25	CR=70% RQD=28%
25.00m								25.00

Moderately to slightly weathered, greyish yellow to light grey, medium grained, moderately fractured sandstone.

Slightly weathered, light yellowish grey, medium grained, highly to moderately fractured sandstone.

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST		
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:			
BORE LOG DATA SHEET					BORE HOLE NO.47					Co-ordinates E= 860 N= 1151		
Field Test		Nos	Samples		Nos	Commencement Date : 04/07/17						
Penetrometer (SPT)		4	Undisturbed (UDS)		3	Completion Date : 05/07/17						
Cone (Pc)			Penetrometer (SPT)		4	Bore Hole Diameter : 150 mm. / N.X						
Vane (V)			Disturbed (DS)		1	Level Of Ground : 275.587 m.						
			Water Sample (WS)		0	Water Struck At :						
						Standing Water Level : 3.0 m.						
DESCRIPTION					SYMBOL	N-VALUE					SAMPLES	
						EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m Stiff, greyish yellow, sandy silty clay / clayey silt with sand mixture & traces of kankars. (CL)						10 3 5 5					DS-1	0.50
											UDS-1	1.00-1.45
											SPT-1	2.00-2.45
											*UDS-2	3.00-3.45
4.00m Very stiff, yellowish grey, silty clay / clayey silt with sand mixture. (CL)						19 5 7 12					SPT-2	4.00-4.45
											*UDS-3	5.00-5.10
											SPT-3	5.50-5.82
											*SPT-4	6.00-6.02
6.00m Highly to moderately weathered, greyish yellow, coarse to medium grained, highly to moderately fractured sandstone.						>100 24 40 36 100 2.0 cm Pentn. Refusal 2.0 cm Pentn. NX rotary drilling from 6.00m to 20.00m					R1	6.00 CR=27% RQD=NIL
											R2	6.75 CR=29% RQD=NIL
											R3	7.50 CR=32% RQD=24%
											R4	8.25 CR=39% RQD=15%
											R5	9.00 CR=37% RQD=32%
											R6	9.75 CR=49% RQD=45%
											R7	10.50 CR=52% RQD=25%
											R8	11.25 CR=49% RQD=35%
											R9	12.00 CR=53% RQD=40%
											12.00m Moderately to slightly weathered / fresh, greyish yellow to light grey, medium grained, moderately fractured sandstone.	
13.00m												

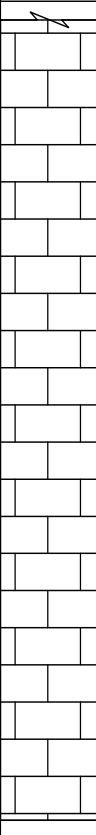
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.47 Co-ordinates E= 860 N= 1151

Field Test	Nos	Samples	Nos	Commencement Date : 04/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 05/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.587 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.0 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Moderately to slightly weathered / fresh, greyish yellow to light grey, medium grained, moderately fractured sandstone.		R10	CR=60% RQD=52%	13.50
		R11	CR=63% RQD=15%	14.25
		R12	CR=62% RQD=36%	15.00
		R13	CR=60% RQD=15%	15.75
		R14	CR=65% RQD=29%	16.50
		R15	CR=63% RQD=43%	17.25
		R16	CR=65% RQD=60%	18.00
		R17	CR=79% RQD=42%	18.75
		R18	CR=85% RQD=75%	19.50
		R19	CR=82% RQD=NIL	20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST		
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:			
BORE LOG DATA SHEET					BORE HOLE NO.48			Co-ordinates E= 815 N= 1132				
Field Test		Nos	Samples		Nos	Commencement Date : 02/07/17						
Penetrometer (SPT)		4	Undisturbed (UDS)		3	Completion Date : 04/07/17						
Cone (Pc)			Penetrometer (SPT)		4	Bore Hole Diameter : 150 mm. / N.X						
			Disturbed (DS)		1	Level Of Ground : 276.222 m.						
Vane (V)			Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.85 m.						
DESCRIPTION					SYMBOL	N-VALUE				SAMPLES		
						EACH DIVN. = 15cm				Ref. No	Depth (m)	
0.00m											DS-1	0.50
Filled up soil consists of sand mixture with brick dust & road materials Filled up											*UDS-1	1.00-1.15
2.00m											SPT-1	2.00-2.45
Stiff, greyish yellow to yellowish brown, silty clay / clayey silt with sand mixture. Obs. traces of kankars. (CL)											UDS-2	3.00-3.45
											SPT-2	4.00-4.45
											UDS-3	5.00-5.45
											SPT-3	6.00-6.45
6.00m											*SPT-4	7.00-7.04
Dense to very dense, yellowish grey, silty coarse sand with decomposed fragment. (SM)											R1	CR=32% RQD=13%
7.00m											R2	CR=29% RQD=NIL
Highly to moderately weathered, greyish brown to light grey, coarse to medium grained, highly fractured sandstone.											R3	CR=33% RQD=15%
											R4	CR=40% RQD=NIL
											R5	CR=38% RQD=NIL
											R6	CR=44% RQD=18%
											R7	CR=43% RQD=NIL
											R8	CR=52% RQD=20%
13.00m												

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.48 Co-ordinates E= 815 N= 1132

Field Test	Nos	Samples	Nos	Commencement Date : 02/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 04/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.222 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.85 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m							R9	CR=41% RQD=NIL	13.00
									↓
							R10	CR=50% RQD=NIL	13.75
									↓
14.50m							R11	CR=51% RQD=NIL	14.50
									↓
							R12	CR=55% RQD=35%	15.25
									↓
16.00m							R13	CR=68% RQD=53%	16.00
									↓
							R14	CR=69% RQD=35%	16.75
									↓
							R15	CR=68% RQD=52%	17.50
									↓
							R16	CR=81% RQD=30%	18.25
									↓
							R17	CR=83% RQD=48%	19.00
									↓
20.00m									20.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 15/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.49		Co-ordinates E= 938 N= 1121		
Field Test	Nos	Samples		Nos	Commencement Date : 07/07/17				
Penetrometer (SPT)	4	Undisturbed (UDS)		2	Completion Date : 08/07/17				
Cone (Pc)		Penetrometer (SPT)		4	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		1	Level Of Ground : 275.996 m.				
		Water Sample (WS)		0	Water Struck At :				
					Standing Water Level : 2.0 m.				
DESCRIPTION				SYMBOL	N-VALUE			SAMPLES	
					EACH DIVN. = 15cm			Ref. No	Depth (m)
0.00m								DS-1	0.50
Medium, greyish yellow, silty clay / clayey silt with sand mixture & traces of kankars. (CL)				3	3	4	7	SPT-1	1.00-1.45
2.50m								UDS-1	2.00-2.45
Stiff, yellowish grey, silty clay / clayey silt with sand mixture. Obs. calcareous & kankars. (CL)				4	5	5	10	SPT-2	3.00-3.45
6.00m				100	Refusal			*SPT-4	6.00-6.04
Highly to moderately weathered, light yellowish grey to grey, coarse to medium grained, highly fractured sandstone.				NX	4.0 cm Pentn. rotary drilling from 6.00m to 20.00m			R1	CR=29% RQD=NIL
								R2	CR=28% RQD=NIL
								R3	CR=35% RQD=17%
								R4	CR=29% RQD=NIL
								R5	CR=34% RQD=13%
								R6	CR=29% RQD=NIL
								R7	CR=35% RQD=NIL
								R8	CR=30% RQD=NIL
								R9	CR=35% RQD=NIL
13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 15/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.49

Co-ordinates E= 938
N= 1121

Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.996 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.0 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
13.00m								R10	CR=36% RQD=NIL 13.50
Highly to moderately weathered, light yellowish grey to grey, coarse to medium grained, highly fractured sandstone.								R11	CR=34% RQD=NIL 14.25
								R12	CR=40% RQD=19% 15.00
								R13	CR=38% RQD=NIL 15.75
								R14	CR=42% RQD=14% 16.50
15.75m								R15	CR=50% RQD=35% 17.25
Moderately weathered, greyish yellow, medium grained, moderately to slightly fractured sandstone.								R16	CR=47% RQD=42% 18.00
								R17	CR=49% RQD=15% 18.75
								R18	CR=59% RQD=48% 19.50
18.75m								R19	CR=78% RQD=60% 20.00
20.00m									

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.50 Co-ordinates E= 911
N= 1161

Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 09/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.183 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.4 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
						DS-1	0.50
		3	4	5	9	SPT-1	1.00-1.45
Stiff, greyish yellow, sandy silty clay / clayey silt with sand mixture & traces of kankars. (CL)						UDS-1	2.00-2.45
		5	7	8	15	SPT-2	3.00-3.45
3.80m						UDS-2	4.00-4.28
very dense, yellowish grey, silty sand with traces of mica. obs. clay binder & rock dust. (SM)		33	67		>100	SPT-3	4.50-4.68
5.00m		100			Refusal	*SPT-4	5.00-5.04
					4.0 cm Pentr.	R1	5.00-5.04 CR=25% RQD=NIL
					NX rotary drilling from 5.00m to 20.00m	R2	5.75-6.50 CR=24% RQD=NIL
						R3	6.50-7.25 CR=32% RQD=NIL
						R4	7.25-8.00 CR=48% RQD=38%
						R5	8.00-8.75 CR=45% RQD=15%
Highly to moderately weathered, greyish yellow, medium grained, highly to moderately fractured sandstone.						R6	8.75-9.50 CR=49% RQD=22%
						R7	9.50-10.25 CR=45% RQD=24%
						R8	10.25-11.00 CR=48% RQD=NIL
						R9	11.00-11.75 CR=49% RQD=14%
						R10	11.75-12.50 CR=46% RQD=36%
12.50m						R11	12.50-13.00 CR=52% RQD=14%
13.00m							

BH-50/Sheet-2

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.51 Co-ordinates E= 903 N= 1353

Field Test	Nos	Samples	Nos	Commencement Date : 10/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 11/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 277.067 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 1.5 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Filled up soil consists of coal dust with sand mixture & brick dust Filled up						DS-1	0.50
1.50m		6	8	8	16	SPT-1	1.00-1.45
						WS-1	1.05
Very dense, yellowish grey, silty sand with clay binder & decomposed fragment. (SM)						UDS-1	2.00-2.35
3.50m		35	65	5.0	cm Pentr.	SPT-2	3.00-3.20
					Refusal		
		100				*SPT-3	3.50-3.54 3.50
					4.0 cm Pentr.	R1	CR=22% RQD=NIL 4.25
					NX rotary drilling from 3.50m to 25.00m	R2	CR=24% RQD=NIL 5.00
						R3	CR=33% RQD=20% 5.75
						R4	CR=35% RQD=28% 6.50
Highly weathered, light yellowish grey to greyish yellow, coarse to medium grained, highly fractured interbedded sandstone - shale.						R5	CR=32% RQD=12% 7.25
						R6	CR=28% RQD=16% 8.00
						R7	CR=30% RQD=NIL 8.75
						R8	CR=32% RQD=18% 9.50
						R9	CR=38% RQD=28% 10.25
10.25m						R10	CR=44% RQD=29% 11.00
						R11	CR=40% RQD=32% 11.75
Moderately weathered, greyish yellow, medium grained, moderately fractured interbedded sandstone - shale.						R12	CR=49% RQD=29% 12.50
						R13	CR=42% RQD=NIL
13.00m							

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.51 Co-ordinates E= 903 N= 1353

Field Test	Nos	Samples	Nos	Commencement Date : 10/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	1	Completion Date : 11/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 277.067 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 1.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
Moderately weathered, greyish yellow, medium grained, moderately fractured interbedded sandstone - shale.	↗						R14	13.25
							R15	14.00
Moderately weathered, greyish yellow, medium grained, moderately fractured interbedded sandstone - shale.							R16	14.75
							R17	15.50
							R18	16.25
							R19	17.00
							R20	17.75
							R21	18.50
							R22	19.25
							R23	20.00
Slightly weathered, light yellowish grey, medium to fine grained, moderately to slightly fractured interbedded sandstone - shale.							R24	20.75
							R25	21.50
							R26	22.25
							R27	23.00
							R28	23.75
							R29	24.50
								25.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 05/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.52

Co-ordinates E= 608
N= 1034

Field Test	Nos	Samples	Nos	Commencement Date : 27/06/17
Penetrometer (SPT)	11	Undisturbed (UDS)	5	Completion Date : 28/06/17
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	4	Level Of Ground : 275.466 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.05 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Filled up soil consists of brownish, sand, calcareous & kankars.						DS-1	0.50
		4	4	5	9	SPT-1	1.00-1.45
						UDS-1	2.00-2.45
2.50m							
Stiff to very stiff, light brownish grey, clayey silt with sand mixture. Obs. kankars & calcareous nodules. (CL)		5	5	5	10	SPT-2	3.00-3.45
						UDS-2	4.00-4.45
		6	6	7	13	SPT-3	5.00-5.45
						UDS-3	6.00-6.45
		5	6	7	13	SPT-4	7.00-7.45
Very dense, greyish yellow, silty coarse sand. Obs. decomposed rock fragments. (SM)						UDS-4	8.00-8.40
		6	8	12	20	SPT-5	9.00-9.45
						*UDS-5	10.00-10.13
10.00m							
Completely weathered, greyish yellow, fine grained, decomposed & disintegrated sandstone.		38	62	7.0	>100 Refusal	SPT-6	10.50-10.72
		100				*SPT-7	11.00-11.0411.00
13.00m		4.0			cm Pentr. Refusal	R1 DS-2	CR=NIL RQD=NIL
		100				*SPT-8	11.75-11.7911.75
		4.0			cm Pentr. Refusal	R2 DS-3	CR=NIL RQD=NIL
		100				*SPT-9	12.50-12.5412.50
		4.0			cm Pentr.	R3	CR=NIL RQD=NIL

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 05/07/2017
Sheet No:		Co-ordinates E= 608 N= 1034		
BORE LOG DATA SHEET		BORE HOLE NO.52		
Field Test	Nos	Samples	Nos	Commencement Date : 27/06/17
Penetrometer (SPT)	11	Undisturbed (UDS)	5	Completion Date : 28/06/17
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	4	Level Of Ground : 275.466 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 3.05 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
13.00m Completely weathered, greyish yellow, fine grained, decomposed & disintegrated sandstone.		100	Refusal	DS-4 *SPT-10 13.25-13.28 13.25 R4 CR=18% RQD=NIL
13.25m Highly weathered, greyish yellow to yellowish brown, medium to fine grained, moderately fractured sandstone.		100	3.0 cm Pentn. Refusal	*SPT-11 14.00-14.03 14.00 R5 CR=24% RQD=NIL
14.75m		NX	3.0 cm Pentn. rotary drilling from 11.00m to 25.00m	14.75 R6 CR=32% RQD=20%
				15.50 R7 CR=26% RQD=NIL
				16.25 R8 CR=29% RQD=20%
				17.00 R9 CR=32% RQD=15%
				17.75 R10 CR=48% RQD=29%
				18.50 R11 CR=56% RQD=39%
				19.25 R12 CR=48% RQD=28%
				20.00 R13 CR=61% RQD=40%
				20.75 R14 CR=67% RQD=55%
				21.50 R15 CR=57% RQD=44%
				22.25 R16 CR=60% RQD=41%
				23.00 R17 CR=65% RQD=45%
				23.75 R18 CR=78% RQD=52%
				24.50 R19 CR=80% RQD=68%
25.00m				25.00
N.B. - '*' means sample could not be recovered.				

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Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.53 Co-ordinates E= 524.203 N= 959.306

Field Test	Nos	Samples	Nos	Commencement Date : 04/07/17
Penetrometer (SPT)	9	Undisturbed (UDS)	2	Completion Date : 05/07/17
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.867 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.8 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
Highly weathered, brownish grey to greyish brown, fine grained, fractured sandstone.								R4	CR=26% RQD=16% 13.00m
								R5	CR=31% RQD=NIL 13.50
								R6	CR=32% RQD=NIL 14.25
								R7	CR=36% RQD=32% 15.00
								R8	CR=33% RQD=24% 15.75
								R9	CR=24% RQD=NIL 16.50
								R10	CR=32% RQD=NIL 17.25
								R11	CR=28% RQD=NIL 18.00
								R12	CR=34% RQD=NIL 18.75
								R13	CR=44% RQD=38% 19.50
Highly to moderately weathered, brownish grey to light blackish grey, fine grained, fractured sandstone.									20.00

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

Field Test	Nos	Samples	Nos	Commencement Date :	05/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	4	Completion Date :	06/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter :	150 mm. / N.X
		Disturbed (DS)	1	Level Of Ground :	267.619 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	3.2 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Medium, deep grey, silty clay / clayey silt. Obs. fine sand. (CL)								DS-1	0.50
								UDS-1	1.00-1.45
		3	3	4	<u>7</u>			SPT-1	2.00-2.45
2.50m								*UDS-2	3.00-3.12
Dense, yellowish brown, clayey sandy silt. Obs. kankars. (SM)					<u>36</u>			SPT-2	4.00-4.45
		8	12	24					
4.60m								UDS-3	5.00-5.45
Medium dense, yellowish brown, silty sand with clay binder. (SM)					<u>11</u>			SPT-3	6.00-6.45
		4	5	6				*UDS-4	7.00-7.45
7.50m								SPT-4	8.00-8.40
Very dense, yellowish grey, silty sand with decomposed rock fragment. (SM)					<u>78</u>				
		22	32	46		10 cm Penetr.			
9.00m		100	4.0 cm Penetr.					*SPT-5	9.00-9.04
								R1	CR=24% RQD=NIL
									9.75
								R2	CR=27% RQD=NIL
									10.50
								R3	CR=25% RQD=NIL
									11.25
								R4	CR=28% RQD=14%
									12.00
								R5	CR=30% RQD=NIL
									12.75
13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.54 Co-ordinates E= 570 N= 863

Field Test	Nos	Samples	Nos	Commencement Date : 05/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	4	Completion Date : 06/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 267.619 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, yellowish grey, medium to fine grained sandstone.		R6	CR=27% RQD=NIL	13.50
		R7	CR=29% RQD=NIL	14.25
		R8	CR=32% RQD=16%	15.00
		R9	CR=35% RQD=NIL	15.75
		R10	CR=33% RQD=NIL	16.50
		R11	CR=37% RQD=18%	17.25
		R12	CR=35% RQD=NIL	18.00
		R13	CR=38% RQD=NIL	18.75
		R14	CR=41% RQD=NIL	19.50
		R15	CR=44% RQD=NIL	20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.55		Co-ordinates $E=690.918$ $N=792.261$		
Field Test	Nos	Samples	Nos	Commencement Date : 03/07/17					
Penetrometer (SPT)	5	Undisturbed (UDS)	4	Completion Date : 05/07/17					
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)		Disturbed (DS)	2	Level Of Ground : 269.514 m.					
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.8 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									
Medium, yellowish brown, silty clay / clayey silt. Obs. sand mixture & calcareous nodules. (CL)							DS-1	0.50	
							UDS-1	1.00-1.45	
2.50m							SPT-1	2.00-2.45	
Hard, yellowish brown, clayey silt with sand mixture. (CL)							*UDS-2	3.00-3.12	
							SPT-2	4.00-4.45	
4.80m							UDS-3	5.00-5.45	
Very stiff, yellowish brown, silty clay / clayey silt. Obs. sand mixture. (CL)							SPT-3	6.00-6.45	
6.80m							*UDS-4	7.00-7.10	
Very dense, yellowish grey, silty sand with decomposed rock fragment. (SM)							SPT-4	8.00-8.22	
8.50m							*SPT-5	8.50-8.54 8.50	
							R1	CR=23% RQD=NIL	
							R2	CR=25% RQD=NIL	
							R3	CR=24% RQD=NIL	
							R4	CR=27% RQD=NIL	
							R5	CR=29% RQD=NIL	
							R6	CR=34% RQD=16%	
13.00m								13.00	

Receipt No : 292418/2024/PS-HQ-HRM

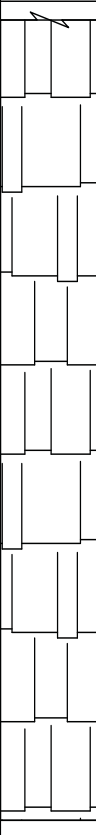
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.55 Co-ordinates E= 690.918 N= 792.261

Field Test	Nos	Samples	Nos	Commencement Date : 03/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	4	Completion Date : 05/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 269.514 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.8 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, yellowish grey, medium to fine grained sandstone.								13.00
								R7 CR=36% RQD=18%
								13.75
								R8 CR=38% RQD=16%
								14.50
								R9 CR=35% RQD=14%
								15.25
								R10 CR=39% RQD=18%
								16.00
								R11 CR=34% RQD=NIL
								16.75
								R12 CR=31% RQD=NIL
								17.50
								R13 CR=33% RQD=NIL
								18.25
								R14 CR=32% RQD=NIL
								19.00
								R15 CR=35% RQD=NIL
								20.00

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

BORE HOLE NO.56

Co-ordinates	E= 460.000 N= 867.000
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Field Test	Nos	Samples	Nos	Commencement Date :	01/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date :	02/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter :	150 mm. / N.X
		Disturbed (DS)	2	Level Of Ground :	272.089 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	2.6 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES		
		EACH DIVN. = 15cm						Ref. No	Depth (m)	
Very stiff, yellowish brown, clayey silt with sand mixture / sandy silt. (CL)								DS-1	0.50	
								*UDS-1	1.00-1.45	
		6	8	9	17			SPT-1	2.00-2.45	
								*UDS-2	3.00-3.45	
		4	5	5	10			SPT-2	4.00-4.45	
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)								*UDS-3	5.00-5.08	
		41	59	8.0	>100	Pentr.		SPT-3	5.50-5.73	
		100			Refusal			*SPT-4	6.00-6.04	
Highly to moderately weathered, yellowish grey, medium to fine grained sandstone.		NX rotary drilling from 6.00m to 20.00m						R1	CR=23% RQD=NIL	6.00
								R2	CR=26% RQD=NIL	6.75
								R3	CR=24% RQD=NIL	7.50
								R4	CR=27% RQD=NIL	8.25
								R5	CR=29% RQD=NIL	9.00
								R6	CR=32% RQD=14%	9.75
								R7	CR=30% RQD=NIL	10.50
								R8	CR=34% RQD=16%	11.25
								R9	CR=38% RQD=18%	12.00
										12.75
									13.00m	

Receipt No : 292418/2024/PS-HQ-HRM

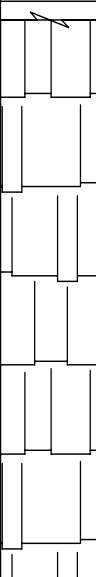
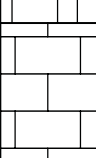
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.56 Co-ordinates E= 460.000 N= 867.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 02/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 272.089 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, yellowish grey, medium to fine grained sandstone.								R10	CR=37% RQD=21%	13.00m	13.50
								R11	CR=41% RQD=24%	14.25	14.25
								R12	CR=46% RQD=28%	15.00	15.00
								R13	CR=39% RQD=NIL	15.75	15.75
								R14	CR=38% RQD=18%	16.50	16.50
								R15	CR=43% RQD=26%	17.25	17.25
								R16	CR=48% RQD=34%	18.00	18.00
								R17	CR=52% RQD=39%	18.75	18.75
								R18	CR=54% RQD=42%	19.50	19.50
								R19	CR=58% RQD=46%	20.00	20.00
Moderately weathered, yellowish grey, medium to fine grained sandstone.											

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

BH-57/Sheet-1

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST										
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO.57			Co-ordinates $E = 411.000$ $N = 946.000$			
Field Test	Nos	Samples	Nos	Commencement Date : 01/07/17						
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 02/07/17						
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X						
Vane (V)		Disturbed (DS)	1	Level Of Ground : 272.178 m.						
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.4 m.						
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES			
				EACH DIVN. = 15cm			Ref. No	Depth (m)		
13.00m Highly weathered, yellowish grey, medium to fine grained sandstone. 20.00m										R10 CR=31% RQD=NIL 13.25 ↓ 14.00 ↓ 14.75 ↓ 15.50 ↓ 16.25 ↓ 17.00 ↓ 17.75 ↓ 18.50 ↓ 19.25 ↓ 20.00
N.B. - '*' means sample could not be recovered.										

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.58 Co-ordinates E= 338 N= 1051

Field Test	Nos	Samples	Nos	Commencement Date : 28/06/17
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 29/06/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 270.388 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.75 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m Brownish grey, silty sand. (SM)						DS-1	0.50
0.60m						UDS-1	1.00-1.45
						SPT-1	2.00-2.45
						*UDS-2	3.00-3.40
						SPT-2	4.00-4.45
						*UDS-3	5.00-5.13
						SPT-3	6.00-6.45
						SPT-4	7.00-7.25
6.80m Very dense, yellowish brown, silty sand with decomposed rock fragments. (SM)						*SPT-5	7.50-7.54 7.50
7.50m						R1	CR=20% RQD=NIL
						R2	CR=25% RQD=NIL
						R3	CR=28% RQD=NIL
						R4	CR=33% RQD=NIL
						R5	CR=29% RQD=NIL
						R6	CR=33% RQD=16%
						R7	CR=36% RQD=15%
							12.75
							13.00m

Receipt No : 292418/2024/PS-HQ-HRM

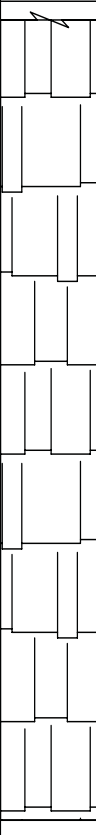
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.58 Co-ordinates E= 338 N= 1051

Field Test	Nos	Samples	Nos	Commencement Date : 28/06/17
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 29/06/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 270.388 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.75 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, greyish brown to yellowish brown, fine grained, highly to moderately fractured sandstone.							R8	CR=37% RQD=17%	13.50
							R9	CR=35% RQD=21%	14.25
							R10	CR=29% RQD=NIL	15.00
							R11	CR=32% RQD=NIL	15.75
							R12	CR=36% RQD=13%	16.50
							R13	CR=41% RQD=16%	17.25
							R14	CR=37% RQD=NIL	18.00
							R15	CR=39% RQD=20%	18.75
							R16	CR=47% RQD=26%	19.50
							R17	CR=54% RQD=30%	20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.59			Co-ordinates E= 304.000 N= 1157.000	
Field Test	Nos	Samples		Nos	Commencement Date : 30/06/17				
Penetrometer (SPT)	3	Undisturbed (UDS)		2	Completion Date : 01/07/17				
Cone (Pc)		Penetrometer (SPT)		3	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		1	Level Of Ground : 268.121 m.				
		Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.1 m.				
DESCRIPTION				SYMBOL	N-VALUE			SAMPLES	
					EACH DIVN. = 15cm			Ref. No	Depth (m)
0.00m									
Dense, yellowish brown, silty sand. (SM)								DS-1	0.50
								*UDS-1	1.00-1.45
2.80m								SPT-1	2.00-2.45
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)								*UDS-2	3.00-3.08
4.30m								SPT-2	3.70-3.95
								*SPT-3	4.30-4.34
Highly to moderately weathered, light grey to yellowish grey, medium to fine grained, fractured sandstone.								R1	CR=23% RQD=NIL
								R2	CR=25% RQD=NIL
5.75m								R3	CR=27% RQD=NIL
								R4	CR=26% RQD=NIL
								R5	CR=28% RQD=NIL
								R6	CR=31% RQD=NIL
								R7	CR=33% RQD=NIL
								R8	CR=35% RQD=14%
								R9	CR=36% RQD=16%
								R10	CR=34% RQD=14%
								R11	CR=37% RQD=14%
								R12	CR=39% RQD=21%
13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST								
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:									
BORE LOG DATA SHEET					BORE HOLE NO.59					Co-ordinates								
										E= 304.000 N= 1157.000								
Field Test		Nos	Samples		Nos	Commencement Date : 30/06/17												
Penetrometer (SPT)		3	Undisturbed (UDS)		2	Completion Date : 01/07/17												
Cone (Pc)			Penetrometer (SPT)		3	Bore Hole Diameter : 150 mm. / N.X												
			Disturbed (DS)		1	Level Of Ground : 268.121 m.												
Vane (V)			Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.1 m.												
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES									
						EACH DIVN. = 15cm			Ref. No	Depth (m)								
13.00m 20.00m						13.25 ↓ 14.00 ↓ 14.75 ↓ 15.50 ↓ 16.25 ↓ 17.00 ↓ 17.75 ↓ 18.50 ↓ 19.25 ↓ 20.00	R13	CR=38% RQD=24%										
							R14	CR=35% RQD=14%										
							R15	CR=39% RQD=18%										
							R16	CR=42% RQD=33%										
							R17	CR=45% RQD=38%										
							R18	CR=43% RQD=28%										
							R19	CR=48% RQD=22%										
							R20	CR=44% RQD=NIL										
							R21	CR=54% RQD=29%										
							N.B. - '*' means sample could not be recovered.											

Field Test	Nos	Samples	Nos	Commencement Date :	29/06/17
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date :	30/06/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter :	150 mm. / N.X
		Disturbed (DS)	2	Level Of Ground :	269.016 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	1.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m							DS-1	0.50
Dense, yellowish brown, silty sand. (SM)							*UDS-1	1.00-1.45
		8	16	19	35		SPT-1	2.00-2.45
3.00m							*UDS-2	3.00-3.12
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)							SPT-2	3.80-4.16
		28	36	36	>100	6.0 cm Penetr.		
4.40m		100			Refusal		*SPT-3	4.40-4.44
						4.0 cm Penetr.	R1	CR=22% RQD=NIL
Highly weathered, yellowish grey, medium to fine grained sandstone.						NX rotary drilling from 4.40m to 20.00m	R2	CR=24% RQD=NIL
							R3	CR=25% RQD=NIL
6.50m							R4	CR=27% RQD=16%
							R5	CR=29% RQD=NIL
							R6	CR=32% RQD=NIL
							R7	CR=34% RQD=25%
							R8	CR=29% RQD=NIL
Highly to moderately weathered, yellowish grey, medium to fine grained sandstone.							R9	CR=32% RQD=14%
							R10	CR=44% RQD=16%
							R11	CR=38% RQD=18%
13.00m							R12	CR=37% RQD=22%

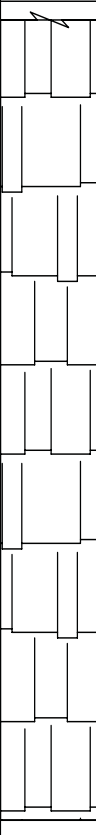
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.60 Co-ordinates E= 237.000 N= 1200.000

Field Test	Nos	Samples	Nos	Commencement Date : 29/06/17
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 30/06/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 269.016 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, yellowish grey, medium to fine grained sandstone.									13.25
		R13	CR=35%	RQD=32%					14.00
		R14	CR=34%	RQD=18%					14.75
		R15	CR=42%	RQD=22%					15.50
		R16	CR=44%	RQD=20%					16.25
		R17	CR=46%	RQD=33%					17.00
		R18	CR=36%	RQD=NIL					17.75
		R19	CR=42%	RQD=16%					18.50
		R20	CR=54%	RQD=40%					19.25
		R21	CR=48%	RQD=37%					20.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.61 Co-ordinates E= 213 N= 1287

Field Test	Nos	Samples	Nos	Commencement Date : 28/06/17
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 29/06/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 271.978 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.80 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m							DS-1	0.50
Filled up soil consists of yellowish brown, sandy silt. Obs. gravels, boulders etc.		12	10	18	28		SPT-1	1.00-1.45
		8	20	17	37		SPT-2	2.00-2.45
		14	16	24	40		SPT-3	3.00-3.45
3.50m							UDS-1	4.00-4.45
Loose, yellowish grey, silty sand with clay binder. (SM)		2	2	6	8		SPT-4	5.00-5.45
		38	62	9.0	>100	cm Pentn.	SPT-5	6.00-6.24
5.50m		100			Refusal		*SPT-6	6.60-6.64 6.60
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)		NX rotary drilling from 6.60m to 20.00m					R1	CR=22% RQD=NIL 7.00
							R2	CR=24% RQD=NIL 7.75
6.60m							R3	CR=30% RQD=NIL 8.50
Highly weathered, yellowish grey to light grey, medium to fine grained sandstone.							R4	CR=32% RQD=NIL 9.25
							R5	CR=28% RQD=NIL 10.00
7.75m							R6	CR=32% RQD=14% 10.75
							R7	CR=36% RQD=16% 11.50
							R8	CR=32% RQD=18% 12.25
							R9	CR=41% RQD=16% 13.00
13.00m								

Receipt No : 292418/2024/PS-HQ-HRM

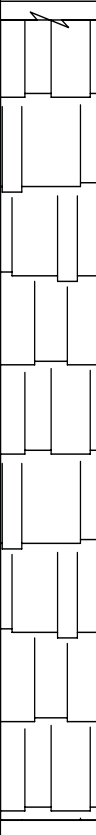
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.61 Co-ordinates E= 213 N= 1287

Field Test	Nos	Samples	Nos	Commencement Date : 28/06/17
Penetrometer (SPT)	6	Undisturbed (UDS)	1	Completion Date : 29/06/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 271.978 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.80 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, yellowish grey to light grey, medium to fine grained sandstone.		13.00m	R10	CR=33% RQD=14%	13.00
			R11	CR=34% RQD=17%	13.75
			R12	CR=37% RQD=21%	14.50
			R13	CR=39% RQD=24%	15.25
			R14	CR=44% RQD=36%	16.00
			R15	CR=41% RQD=32%	16.75
			R16	CR=48% RQD=28%	17.50
			R17	CR=41% RQD=14%	18.25
			R18	CR=52% RQD=28%	19.00
					20.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.62 Co-ordinates E= 617.000 N= 964.000

Field Test	Nos	Samples	Nos	Commencement Date : 29/06/17
Penetrometer (SPT)	7	Undisturbed (UDS)	6	Completion Date : 30/06/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	0	Level Of Ground : 276.05 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.85 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Filled up soil consists of greyish brown, coal dust, brickbats, silty sand & rock dust.							*UDS-1	1.00-1.45
		1	2	2	4		SPT-1	2.00-2.45
2.80m							UDS-2	3.00-3.45
Very stiff, light reddish brown, silty clay / clayey silt. Obs. calcareous nodules. (CL)		16	12	10	22		SPT-2	4.00-4.45
							*UDS-3	5.00-5.20
5.80m		12	12	11	23		SPT-3	6.00-6.45
							UDS-4	7.00-7.45
Very stiff to hard, yellowish brown, silty clay / clayey silt. Obs. calcareous nodules. (CL)		6	8	12	20		SPT-4	8.00-8.45
							*UDS-5	9.00-9.18
10.00m		9	16	18	34		SPT-5	10.00-10.45
Very dense, yellowish grey, silty sand with traces of decomposed rock fragments. (SM)							*UDS-6	11.00-11.15
		27	45	30	>100		SPT-6	12.00-12.37
12.50m		100	7.0 cm	Pentr.	>100		*SPT-7	12.50-12.54 12.50
13.00m			4.0 cm	Pentr.			R1	CR=21% RQD=NIL

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).								CETEST
Job No : 3973M		Created by : S.NATH		Created on : 26/07/2017		Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO.62		Co—ordinates E= 617.000 N= 964.000		
Field Test	Nos	Samples	Nos	Commencement Date : 29/06/17				
Penetrometer (SPT)	7	Undisturbed (UDS)	6	Completion Date : 30/06/17				
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)	0	Level Of Ground : 276.05 m.				
		Water Sample (WS)	0	Water Struck At :				
				Standing Water Level : 2.85 m.				
DESCRIPTION		SYMBOL	N—VALUE			SAMPLES		
			EACH DIVN. = 15cm			Ref. No	Depth (m)	
13.00m		[Symbol]				R2	CR=32% RQD=NIL 13.25	
		[Symbol]				R3	CR=28% RQD=NIL 14.00	
		[Symbol]				R4	CR=36% RQD=21% 14.75	
		[Symbol]				R5	CR=48% RQD=13% 15.50	
		[Symbol]				R6	CR=48% RQD=22% 16.25	
		[Symbol]				R7	CR=46% RQD=38% 17.00	
Highly to moderately weathered, greyish yellow, coarse to medium grained, highly to moderately, fractured sandstone.		[Symbol]				R8	CR=44% RQD=16% 17.75	
		[Symbol]				R9	CR=50% RQD=40% 18.50	
		[Symbol]				R10	CR=48% RQD=25% 19.25	
		[Symbol]				R11	CR=56% RQD=32% 20.00	
		[Symbol]				R12	CR=49% RQD=36% 20.75	
		[Symbol]				R13	CR=53% RQD=22% 21.50	
		[Symbol]				R14	CR=45% RQD=15% 22.25	
23.00m		[Symbol]				R15	CR=40% RQD=NIL 23.00	
Moderately weathered, greyish yellow, fine grained, highly fractured sandstone.		[Symbol]				R16	CR=57% RQD=NIL 23.75	
		[Symbol]				R17	CR=48% RQD=NIL 24.50	
25.00m		[Symbol]					25.00	
N.B. — '*' means sample could not be recovered.								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.63 Co-ordinates E= 679.000 N= 968.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 02/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.336 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.3 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Filling soil consists of stiff, yellowish brown, sandy silty clay. Obs. rock pcs.							DS-1	0.50
1.50m		2	3	5	8		SPT-1	1.00-1.45
Medium dense, brownish grey, silty sand with clay binder. (SM)							UDS-1	2.00-2.45
3.50m		3	5	6	11		SPT-2	3.00-3.45
Stiff, yellowish grey, silty clay / clayey silt. Obs. black spot. (CL)							UDS-2	4.00-4.45
7.00m		5	6	8	14		SPT-3	5.00-5.45
Hard, yellowish grey, silty clay / clayey silt. Obs. black spot. (CL)							UDS-3	6.00-6.45
8.00m		10	18	27	45		SPT-4	7.00-7.45
Highly weathered, brownish yellow, fine to medium grained, highly fractured sandstone.		23	52	4.0 cm	Pentn.		SPT-5	7.80-7.99
9.75m		100					*SPT-6	8.20-8.24 8.20
Highly to moderately weathered, brownish yellow, fine to medium grained, highly fractured sandstone.							R1	CR=21% RQD=NIL 9.00
							R2	CR=23% RQD=NIL 9.75
							R3	CR=40% RQD=NIL 10.50
							R4	CR=35% RQD=NIL 11.25
							R5	CR=44% RQD=NIL 12.00
							R6	CR=46% RQD=22% 12.75
13.00m								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.63 Co-ordinates E= 679.000 N= 968.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 02/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.336 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.3 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, brownish yellow, fine to medium grained, highly fractured sandstone.	13.00m		R7	CR=31% RQD=14%	13.50
			R8	CR=34% RQD=NIL	14.25
			R9	CR=46% RQD=NIL	15.00
			R10	CR=47% RQD=NIL	15.75
			R11	CR=40% RQD=13%	16.50
			R12	CR=34% RQD=NIL	17.25
			R13	CR=36% RQD=17%	18.00
			R14	CR=35% RQD=15%	18.75
			R15	CR=40% RQD=22%	19.50
			R16	CR=52% RQD=13%	20.00
Highly to moderately weathered, greyish yellow, medium to coarse grained, moderately fractured sandstone.	17.25m				
	20.00m				

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 26/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.64

Co-ordinates

E= 726.000

N= 854.000

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

7

Undisturbed (UDS)

4

Cone (Pc)

Penetrometer (SPT)

7

Vane (V)

Disturbed (DS)

1

Water Sample (WS)

1

Commencement Date : 02/07/17

Completion Date : 04/07/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 275.768 m.

Water Struck At :

Standing Water Level : 2.1 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

0.00m

Filling soil consists of brownish yellow, silty sand.

0.80m

Dense, reddish brown, silty sand with clay binders. (SM)

3.50m

Stiff to very stiff, brownish grey, silty clay / clayey silt. Obs. black spot, decomposed rock fragment. (CL)

8.00m

Hard, brownish grey, silty clay / clayey silt. Obs. black spot, decomposed rock fragment. (CL)

9.45m

Highly to moderately weathered, deep greyish yellow to brownish yellow, fine to medium grained, highly fractured sandstone.

13.00m

19

7 8 11

30

10 13 17

14

5 6 8

25

7 11 14

51

9 19 32

38 62 6.0 cm Pentn.

100 Refusal

3.0 cm Pentn.

NX rotary drilling from 9.50m to 20.00m

DS-1

SPT-1

UDS-1

WS-1

SPT-2

UDS-2

SPT-3

UDS-3

SPT-4

*UDS-4

SPT-5

SPT-6

*SPT-7

R1

R2

R3

R4

R5

0.50

1.00-1.45

2.00-2.45

2.10

3.00-3.45

4.00-4.45

5.00-5.45

6.00-6.45

7.00-7.45

8.00-8.15

8.50-8.95

9.20-9.41

9.50-9.53

CR=29%
RQD=NIL

10.25

CR=34%
RQD=NIL

11.00

CR=32%
RQD=NIL

11.75

CR=28%
RQD=NIL

12.50

CR=46%
RQD=NIL

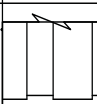
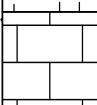
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.64 Co-ordinates E= 726.000 N= 854.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	4	Completion Date : 04/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.768 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 2.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, deep greyish yellow to brownish yellow, fine to medium grained, highly fractured sandstone.								R6	CR=31% RQD=NIL	13.25
										14.00
										14.75
										15.50
										16.25
										17.00
										17.75
										18.50
										19.25
										20.00
Moderately weathered, deep greyish yellow to brownish yellow, fine to medium grained, highly fractured sandstone.								R7	CR=40% RQD=NIL	14.00
										14.75
										15.50
										16.25
										17.00
										17.75
										18.50
										19.25
										20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.65 Co-ordinates E= 785.000 N= 942.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 03/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.537 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Filling soil consists of stiff, yellowish brown, silty clay with kankars.		2	3	5	8		DS-1	0.50
							SPT-1	1.00-1.45
1.60m							*UDS-1	2.00-2.45
		3	4	6	10		SPT-2	3.00-3.45
Stiff, yellowish brown to brownish grey, silty clay / clayey silt with sand mixture. Obs. calcareous nodules. (CL)							UDS-2	4.00-4.45
		4	5	9	14		SPT-3	5.00-5.45
							UDS-3	6.00-6.45
6.50m							SPT-4	7.00-7.45
Medium dense / very dense, light yellowish grey, silty sand. Obs. decomposed fragment. (SM)		5	8	13	21			
		48	62	50	>100	Pentn.	SPT-5	7.90-8.10
8.20m		100			Refusal		*SPT-6	8.30-8.34 8.30
					4.0 cm	Pentn.	R1	CR=26% RQD=NIL 9.00
					NX rotary drilling from 8.30m to 20.00m			
							R2	CR=28% RQD=NIL 9.75
							R3	CR=30% RQD=NIL 10.50
							R4	CR=27% RQD=15% 11.25
							R5	CR=46% RQD=26% 12.00
							R6	CR=54% RQD=34% 12.75
13.00m								

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.65 Co-ordinates E= 785.000 N= 942.000

Field Test	Nos	Samples	Nos	Commencement Date : 02/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 03/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.537 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m							R7	CR=49% RQD=38%	13.50
13.50m							R8	CR=54% RQD=NIL	14.25
							R9	CR=58% RQD=30%	15.00
Highly to moderately weathered, whitish grey to yellowish brown, medium grained, highly to moderately fractured sandstone.							R10	CR=52% RQD=34%	15.75
							R11	CR=57% RQD=14%	16.50
							R12	CR=54% RQD=23%	17.25
17.25m							R13	CR=71% RQD=53%	18.00
							R14	CR=60% RQD=42%	18.75
Slightly weathered, greyish yellowish brown, medium grained, moderately to slightly fractured sandstone.							R15	CR=66% RQD=40%	19.50
							R16	CR=72% RQD=22%	20.00
20.00m									

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).													
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:				
BORE LOG DATA SHEET					BORE HOLE NO.66			Co-ordinates E= 777.000 N= 823.000					
Field Test		Nos	Samples		Nos	Commencement Date : 12/07/17 Completion Date : 13/07/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 276.123 m. Water Struck At : Standing Water Level : 2.4 m.							
Penetrometer (SPT)		6	Undisturbed (UDS)		4								
Cone (Pc)			Penetrometer (SPT)		6								
			Disturbed (DS)		2								
Vane (V)			Water Sample (WS)		0								
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES				
						EACH DIVN. = 15cm			Ref. No	Depth (m)			
0.00m											DS-1	0.50	
Filled up soil consist of , black, silty sand with high percentage of coal dust.					8	9	13					SPT-1	1.00-1.45
2.50m												*UDS-1	2.00-2.45
Stiff, greyish yellow, silty clay / clayey silt with traces of kankars. (CL)					4	6	9					SPT-2	3.00-3.45
3.50m												UDS-2	4.00-4.45
Stiff, greyish yellow, silty clay / clayey silt with traces of kankars. (CL)					5	9	11					SPT-3	5.00-5.45
6.50m												UDS-3	6.00-6.45
Medium dense, brownish yellow, silty sand with clay binder. (SM)					6	8	14					SPT-4	7.00-7.45
9.40m												UDS-4	8.00-8.45
					44	67	10	cm	Pentn.			SPT-5	9.00-9.25
					50							*SPT-6	9.70-9.74 9.70
					NX rotary drilling from 9.70m to 20.00m						R1	CR=25% RQD=NIL 10.50	
											R2	CR=26% RQD=NIL 11.25	
											R3	CR=30% RQD=NIL 12.00	
											R4	CR=33% RQD=NIL 12.75	
13.00m													

Receipt No : 292418/2024/PS-HQ-HRM

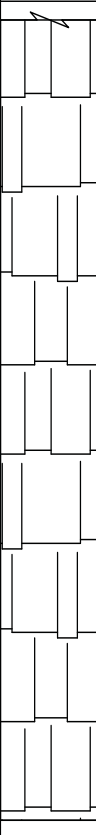
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.66 Co-ordinates E= 777.000 N= 823.000

Field Test	Nos	Samples	Nos	Commencement Date : 12/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	4	Completion Date : 13/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.123 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.4 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, whitish yellow to yellowish grey, medium to fine grained, highly fractured interbedded sandstone - shale.		R5	CR=35% RQD=NIL	13.50
		R6	CR=36% RQD=NIL	14.25
		R7	CR=32% RQD=NIL	15.00
		R8	CR=42% RQD=NIL	15.75
		R9	CR=38% RQD=NIL	16.50
		R10	CR=36% RQD=NIL	17.25
		R11	CR=34% RQD=NIL	18.00
		R12	CR=40% RQD=NIL	18.75
		R13	CR=37% RQD=NIL	19.50
		R14	CR=46% RQD=14%	20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST			
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:				
BORE LOG DATA SHEET					BORE HOLE NO.67					Co-ordinates		E= 849 N= 953	
Field Test		Nos	Samples		Nos	Commencement Date : 01/07/17 Completion Date : 02/07/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 275.195 m. Water Struck At : Standing Water Level : 3.5 m.							
Penetrometer (SPT)		5	Undisturbed (UDS)		3								
Cone (Pc)			Penetrometer (SPT)		5								
Vane (V)			Disturbed (DS)		1								
			Water Sample (WS)		0								
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES				
						EACH DIVN. = 15cm			Ref. No	Depth (m)			
0.00m													
Filling soil consists of greyish brown, silty clay with boulders.													
0.80m													
Stiff to very stiff, reddish brown, silty clay / clayey silt with sand mixture. Obs. calcareous nodules. (CL)													
5.00m													
Hard, reddish brown, silty clay / clayey silt with sand mixture. Obs. calcareous nodules. (CL)													
6.50m													
Very dense, greyish yellow, silty sand. (SM)													
7.50m													
Highly to moderately weathered, yellowish brow, medium grained, moderately fractured sandstone.													
12.75m													
13.00m													

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.67 Co-ordinates E= 849 N= 953

Field Test	Nos	Samples	Nos	Commencement Date : 01/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	3	Completion Date : 02/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.195 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.5 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m							R8	CR=56% RQD=51%	13.50
Highly to moderately weathered, yellowish brow, medium grained, moderately fractured sandstone.							R9	CR=58% RQD=29%	14.25
							R10	CR=54% RQD=32%	15.00
							R11	CR=66% RQD=45%	15.75
							R12	CR=54% RQD=42%	16.50
15.00m							R13	CR=71% RQD=16%	17.25
Slightly weathered to fresh, browish yellow, medium to coarse grained, slightly fractured sandstone.							R14	CR=62% RQD=48%	18.00
							R15	CR=74% RQD=68%	18.75
							R16	CR=72% RQD=61%	19.50
							R17	CR=83% RQD=58%	20.00
									
20.00m									

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.68		Co-ordinates $E= 860.000$ $N= 828.000$		
Field Test	Nos	Samples	Nos	Commencement Date : 09/07/17					
Penetrometer (SPT)	6	Undisturbed (UDS)	4	Completion Date : 11/07/17					
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.419 m.					
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.6 m.					
DESCRIPTION			SYMBOL	N-VALUE EACH DIVN. = 15cm			SAMPLES Ref. No Depth (m)		
0.00m Filled up soil consists of black, silty sand with coal dust.								DS-1	0.50
0.80m Loose, reddish brown, silty sand with clay binder. (SM)				2	4	5	<u>9</u>	SPT-1	1.00-1.45
2.50m								UDS-1	2.00-2.45
				3	4	4	<u>8</u>	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
5.00m Stiff to very stiff, brownish grey to yellowish brown, silty clay / clayey silt. Obs. black spot. (CL)				5	6	8	<u>14</u>	SPT-3	5.00-5.45
								UDS-3	6.00-6.45
				8	11	16	<u>27</u>	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
8.50m Dense, greyish yellow, silty sand. (SM)				11	17	25	<u>42</u>	SPT-5	9.00-9.45
9.50m				50	Refusal			*SPT-6	9.60-9.66
				6.0 cm Pentn.				R1	CR=22% RQD=NIL
				NX rotary drilling from 9.60m to 25.00m				R2	CR=30% RQD=NIL
								R3	CR=33% RQD=NIL
								R4	CR=38% RQD=18%
								R5	CR=42% RQD=NIL
13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.68 Co-ordinates E= 860.000 N= 828.000

Field Test	Nos	Samples	Nos	Commencement Date : 09/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	4	Completion Date : 11/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.419 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m Highly to moderately weathered, brownish yellow, medium grained, highly to moderately fractured sandstone.							R6	13.25
							R7	14.00
14.75m							R8	14.75
							R9	15.50
							R10	16.25
Moderately to slightly weathered, brownish yellow, medium grained, highly to moderately fractured sandstone.							R11	17.00
							R12	17.75
							R13	18.50
							R14	19.25
20.00m							R15	20.00
							R16	20.75
							R17	21.50
Moderately weathered, brownish yellow, fine grained, highly fractured interbedded sandstone - shale.							R18	22.25
							R19	23.00
							R20	23.75
25.00m							R21	24.50
								25.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.69 Co-ordinates E= 961.000 N= 896.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	3	Completion Date : 06/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 275.304 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.3 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m							DS-1	0.50
Loose, reddish yellow, silty sand with clay binders. Obs. moorum. (SM)		2	3	4	7		SPT-1	1.00-1.45
							UDS-1	2.00-2.45
		3	3	5	8		SPT-2	3.00-3.45
3.50m							UDS-2	4.00-4.45
Very stiff, light grey, silty clay / clayey silt with sand mixture. (CL)		6	7	9	16		SPT-3	5.00-5.45
							UDS-3	6.00-6.45
6.00m		10	15	19	34		SPT-4	7.00-7.45
7.50m								
Very dense, greyish yellow, silty sand. Obs. decomposed rock fragment. (SM)		46	62	7.0 cm	Pentn.		SPT-5	8.00-8.22
		100	5.0 cm	Refusal	Pentn.		*SPT-6	8.50-8.55
8.40m		100	4.0 cm	Refusal	Pentn.		*SPT-7	8.80-8.84
Highly weathered, whitish yellow to brownish yellow, medium grained, highly fractured sandstone.		NX rotary drilling from 8.80m to 25.00m					R1	8.80 CR=21% RQD=NIL
							R2	9.50 CR=23% RQD=NIL
							R3	10.25 CR=24% RQD=NIL
							R4	11.00 CR=26% RQD=NIL
							R5	11.75 CR=33% RQD=NIL
							R6	12.50 CR=38% RQD=16%
13.00m								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.69 Co-ordinates E= 961.000 N= 896.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	3	Completion Date : 06/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 275.304 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.3 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m								13.25
Highly to moderately weathered, whitish yellow to brownish yellow, medium grained, highly fractured sandstone.							R7	CR=36% RQD=NIL
							R8	CR=39% RQD=21%
							R9	CR=45% RQD=23%
							R10	CR=50% RQD=24%
							R11	CR=52% RQD=31%
16.25m								16.25
Moderately to slightly weathered, greyish yellow, fine to medium grained, moderately fractured sandstone.							R12	CR=46% RQD=20%
							R13	CR=55% RQD=22%
							R14	CR=58% RQD=26%
							R15	CR=86% RQD=33%
							R16	CR=60% RQD=44%
							R17	CR=44% RQD=NIL
							R18	CR=48% RQD=NIL
							R19	CR=41% RQD=NIL
							R20	CR=43% RQD=13%
							R21	CR=73% RQD=26%
							R22	CR=68% RQD=56%
25.00m								25.00

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

BH-70/Sheet-1

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.70 Co-ordinates E= 1084.000 N= 918.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 06/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.14 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m								13.00
							R7	CR=48% RQD=NIL
								13.75
							R8	CR=40% RQD=13%
								14.50
							R9	CR=47% RQD=21%
								15.25
							R10	CR=48% RQD=37%
								16.00
16.00m							R11	CR=51% RQD=35%
								16.75
							R12	CR=50% RQD=38%
								17.50
							R13	CR=52% RQD=NIL
								18.25
							R14	CR=51% RQD=16%
								19.00
							R15	CR=68% RQD=18%
								19.50
							R16	CR=55% RQD=NIL
								20.00
20.00m								

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.71 Co-ordinates E= 1024 N= 854

Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.826 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Filled up soil consists of loose, black, silty sand with coal.		1	1	2	3		DS-1	0.50
1.60m							SPT-1	1.00-1.45
Stiff, yellowish red, silty clay / clayey silt with sand mixture. (CL)		4	6	9	15		UDS-1	2.00-2.45
3.50m							SPT-2	3.00-3.45
							UDS-2	4.00-4.45
Very stiff, deep grey, silty clay / clayey silt. Obs. sand mixture, rock pcs. (CL)		8	9	12	21		SPT-3	5.00-5.45
6.00m							UDS-3	6.00-6.45
Hard, deep grey, silty clay / clayey silt. Obs. sand mixture, rock pcs. (CL)		12	23	31	54		SPT-4	7.00-7.45
8.50m		38	50	6.0 cm	Pentn.		SPT-5	8.00-8.21
		100			Refusal		*SPT-6	8.70-8.74 8.70
							R1	CR=24% RQD=NIL 9.50
							R2	CR=26% RQD=NIL 10.25
							R3	CR=28% RQD=NIL 11.00
							R4	CR=36% RQD=22% 11.75
							R5	CR=30% RQD=20% 12.50
Highly to moderately weathered, yellowish brown to yellowish grey, medium grained, moderately fractured sandstone.							R6	CR=38% RQD=28%
13.00m								

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.71 Co-ordinates E= 1024 N= 854

Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.826 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.35 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m								13.25
Highly to moderately weathered, yellowish brown to yellowish grey, medium grained, moderately fractured sandstone.							R7	CR=34% RQD=NIL
							R8	CR=41% RQD=13%
							R9	CR=44% RQD=14%
							R10	CR=42% RQD=22%
							R11	CR=58% RQD=16%
16.25m								16.25
Moderately weathered, yellowish brown to yellowish grey, medium grained, moderately fractured sandstone.							R12	CR=48% RQD=36%
							R13	CR=60% RQD=NIL
							R14	CR=50% RQD=NIL
							R15	CR=54% RQD=22%
								19.25
20.00m								20.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M		Created by : S.NATH		Created on : 15/07/2017		Sheet No:			
BORE LOG DATA SHEET				BORE HOLE NO.72		Co-ordinates E= 1026 N= 787			
Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17 Completion Date : 09/07/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 276.433 m. Water Struck At : Standing Water Level : 1.85 m.					
DESCRIPTION			SYMBOL	N-VALUE EACH DIVN. = 15cm			SAMPLES Ref. No Depth (m)		
0.00m									
Filled up soil consists of loose, black, silty sand with high percentage of coal dust.								DS-1	0.50
1.70m				2	2	2	4	SPT-1	1.00-1.45
								UDS-1	2.00-2.45
				2	3	5	8	SPT-2	3.00-3.45
								*UDS-2	4.00-4.45
Stiff, brownish grey to yellowish brown, silty clay / clayey silt with sand mixture. Obs. rock pcs. (CL)				4	6	7	13	SPT-3	5.00-5.45
								*UDS-3	6.00-6.45
				3	3	5	8	SPT-4	7.00-7.45
								UDS-4	8.00-8.45
8.50m									
Very stiff to hard, light yellowish brown, silty clay / clayey silt with rock pcs. (CL)				5	9	19	28	SPT-5	9.00-9.45
9.60m							>100	*SPT-6	9.70-9.75 9.70
				100				R1	CR=28% RQD=NIL 10.25
							5.0 cm Pentn.	R2	CR=30% RQD=NIL 11.00
							NX rotary drilling from 9.70m to 20.00m	R3	CR=31% RQD=NIL 11.75
								R4	CR=28% RQD=NIL 12.50
								R5	CR=42% RQD=NIL
13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 15/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.72

Co-ordinates

E= 1026

N= 787

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

6

Undisturbed (UDS)

4

Cone (Pc)

Penetrometer (SPT)

6

Vane (V)

Disturbed (DS)

1

Water Sample (WS)

0

Commencement Date : 08/07/17

Completion Date : 09/07/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 276.433 m.

Water Struck At :

Standing Water Level : 1.85 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

13.00m



R6

CR=40%
RQD=NIL

13.25

R7

CR=46%
RQD=18%

14.00

R8

CR=42%
RQD=NIL

14.75

R9

CR=44%
RQD=23%

15.50

R10

CR=50%
RQD=NIL

16.25

R11

CR=46%
RQD=NIL

17.00

R12

CR=48%
RQD=NIL

17.75

R13

CR=56%
RQD=13%

18.50

R14

CR=68%
RQD=36%

19.25

20.00m

20.00

Highly to moderately weathered, brownish yellow, medium grained, highly to moderately, fractured sandstone.

Moderately to slightly weathered, yellowish grey, fine grained, moderately fractured sandstone.

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST			
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:				
BORE LOG DATA SHEET					BORE HOLE NO.73					Co-ordinates			
										E= 1096.000 N= 777.000			
Field Test		Nos	Samples		Nos	Commencement Date : 14/07/17							
Penetrometer (SPT)		7	Undisturbed (UDS)		4	Completion Date : 15/07/17							
Cone (Pc)			Penetrometer (SPT)		7	Bore Hole Diameter : 150 mm. / N.X							
Vane (V)			Disturbed (DS)		1	Level Of Ground : 275.401 m.							
			Water Sample (WS)		0	Water Struck At : Standing Water Level : 1.8 m.							
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES				
						EACH DIVN. = 15cm			Ref. No	Depth (m)			
0.00m													
Soft to medium, light greyish red to brownish grey, silty clay / clayey silt with sand mixture. (CL)										DS-1	0.50		
					1	1	1				SPT-1	1.00-1.45	
												*UDS-1	2.00-2.45
					1	2	2				SPT-2	3.00-3.45	
										UDS-2	4.00-4.45		
					4	4	5			SPT-3	5.00-5.45		
5.50m													
Medium dense, deep grey to yellowish brown, silty sand with clay binder. (SM)										*UDS-3	6.00-6.45		
					4	5	7				SPT-4	7.00-7.45	
												*UDS-4	8.00-8.45
					6	13	18				SPT-5	9.00-9.45	
					42	69	70			SPT-6	9.80-10.02		
10.25m					100					*SPT-7	10.20-10.25		
Highly to moderately weathered, greyish yellow to yellowish brown, medium grained, highly fractured sandstone.					NX rotary drilling from 10.20m to 20.00m					R1	CR=26% RQD=NIL		
											R2	CR=36% RQD=NIL	
											R3	CR=30% RQD=NIL	
											R4	CR=34% RQD=NIL	
13.00m													

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).								CETEST								
Job No : 3973M		Created by : S.NATH		Created on : 26/07/2017		Sheet No:										
BORE LOG DATA SHEET				BORE HOLE NO.73		Co-ordinates E= 1096.000 N= 777.000										
Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17												
Penetrometer (SPT)	7	Undisturbed (UDS)	4	Completion Date : 15/07/17												
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X												
Vane (V)		Disturbed (DS)	1	Level Of Ground : 275.401 m.												
		Water Sample (WS)	0	Water Struck At :												
				Standing Water Level : 1.8 m.												
DESCRIPTION			SYMBOL	N-VALUE				SAMPLES								
				EACH DIVN. = 15cm				Ref. No	Depth (m)							
13.00m Highly to moderately weathered, greyish yellow to yellowish brown, medium grained, highly fractured sandstone. 20.00m										R5	CR=33% RQD=NIL	13.25				
										R6	CR=36% RQD=NIL	14.00				
										R7	CR=42% RQD=NIL	14.75				
										R8	CR=48% RQD=NIL	15.50				
										R9	CR=38% RQD=18%	16.25				
										R10	CR=42% RQD=16%	17.00				
										R11	CR=40% RQD=NIL	17.75				
										R12	CR=36% RQD=NIL	18.50				
										R13	CR=44% RQD=24%	19.25				
												20.00				
				N.B. - '*' means sample could not be recovered.												

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.74		Co-ordinates E= 1141.000 N= 1062.000		
Field Test	Nos	Samples		Nos	Commencement Date : 13/07/17				
Penetrometer (SPT)	4	Undisturbed (UDS)		3	Completion Date : 14/07/17				
Cone (Pc)		Penetrometer (SPT)		4	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		2	Level Of Ground : 275.347 m.				
		Water Sample (WS)		0	Water Struck At : Standing Water Level : 1.25 m.				
DESCRIPTION				SYMBOL	N-VALUE			SAMPLES	
					EACH DIVN. = 15cm			Ref. No	Depth (m)
0.00m									
Medium, brownish grey, silty clay / clayey silt with kankars. Obs. boulders pcs. (CL)				3	4	4	8	DS-1	0.50
								SPT-1	1.00-1.45
								UDS-1	2.00-2.45
3.00m				6	9	12	21	SPT-2	3.00-3.45
Very stiff, greyish yellow, sandy silty clay with traces of kankars. Obs. decomposed rock fragment. (CL)				7	10	15	25	SPT-3	5.00-5.45
								*UDS-3	6.00-6.19
								*SPT-4	6.70-6.75
6.70m				100	Refusal			R1	6.70
Highly to moderately weathered, yellowish grey, medium grained, moderately fractured sandstone.									7.50
								R2	8.25
								R3	9.00
9.75m								R4	9.75
Moderately weathered, light yellowish grey to grey, medium grained, moderately to slightly fractured sandstone.								R5	10.50
								R6	11.25
								R7	12.00
11.25m								R8	12.75
Moderately to slightly weathered, light yellowish grey to grey, medium grained, moderately to slightly fractured sandstone.									
13.00m									

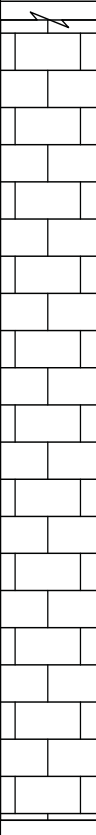
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.74 Co-ordinates E= 1141.000 N= 1062.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	3	Completion Date : 14/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 275.347 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.25 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Moderately to slightly weathered, light yellowish grey to grey, medium grained, moderately to slightly fractured sandstone.							R9	CR=67% RQD=40%	13.50
							R10	CR=69% RQD=60%	14.25
							R11	CR=60% RQD=48%	15.00
							R12	CR=62% RQD=NIL	15.75
							R13	CR=63% RQD=45%	16.50
							R14	CR=62% RQD=60%	17.25
							R15	CR=69% RQD=38%	18.00
							R16	CR=74% RQD=12%	18.75
							R17	CR=70% RQD=38%	19.50
							R18	CR=80% RQD=48%	20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.75		Co-ordinates $E=1195.000$ $N=1035.000$		
Field Test	Nos	Samples		Nos	Commencement Date : 14/07/17				
Penetrometer (SPT)	6	Undisturbed (UDS)		3	Completion Date : 15/07/17				
Cone (Pc)		Penetrometer (SPT)		6	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		1	Level Of Ground : 274.853 m.				
		Water Sample (WS)		0	Water Struck At :				
							Standing Water Level : 1.85 m.		
DESCRIPTION				SYMBOL	N-VALUE			SAMPLES	
					EACH DIVN. = 15cm			Ref. No	Depth (m)
0.00m								DS-1	0.50
Stiff to very stiff, brownish grey, silty clay / clayey silt with kankars. (CL)				2	4	4	8	SPT-1	1.00-1.45
				7	8	9	17	SPT-2	3.00-3.45
							UDS-1	2.00-2.45	
4.50m				7	11	15	26	SPT-3	5.00-5.45
Medium dense, greyish yellow, sandy silt with clay binder & traces of kankars. (SM)							*UDS-3	6.00-6.25	
7.50m				31	69	10	>100	SPT-4	7.00-7.25
Highly to moderately weathered, light yellowish grey to greyish yellow, medium grained, highly to moderately fractured sandstone.				100	4.0	cm	Pentn.	*SPT-5	7.50-7.54 7.50
				Refusal			R1	CR=18% RQD=NIL	
				100	2.0	cm	Pentn.	*SPT-6	8.25-8.27 8.25
				NX rotary drilling from 7.50m to 20.00m			R2	CR=32% RQD=30%	
							R3	CR=40% RQD=NIL	
							R4	CR=30% RQD=NIL	
							R5	CR=42% RQD=40%	
12.00m							R6	CR=45% RQD=28%	
13.00m							R7	CR=52% RQD=40%	

BH-75/Sheet-1

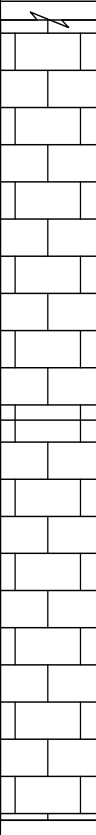
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.75 Co-ordinates E= 1195.000 N= 1035.000

Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17
Penetrometer (SPT)	6	Undisturbed (UDS)	3	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 274.853 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.85 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Moderately to slightly weathered, light yellowish grey to greyish yellow, medium grained, highly to moderately fractured sandstone.							R8	CR=57% RQD=36%	13.50
							R9	CR=60% RQD=28%	14.25
							R10	CR=56% RQD=NIL	15.00
							R11	CR=59% RQD=35%	15.75
							R12	CR=58% RQD=45%	16.50
							R13	CR=62% RQD=35%	17.25
							R14	CR=66% RQD=34%	18.00
							R15	CR=69% RQD=NIL	18.75
							R16	CR=72% RQD=21%	19.50
							R17	CR=80% RQD=52%	20.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.76 Co-ordinates E= 1383.000 N= 1128.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/07/17
Penetrometer (SPT)	17	Undisturbed (UDS)	3	Completion Date : 17/07/17
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	13	Level Of Ground : 275.731 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.0 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m						DS-1	0.50
		2	3	3	6	SPT-1	1.00-1.45
						*UDS-1	2.00-2.45
		4	4	5	9	SPT-2	3.00-3.45
						UDS-2	4.00-4.45
		4	6	8	14	SPT-3	5.00-5.45
						UDS-3	6.00-6.45
6.50m		46	67	80	>100	SPT-4	7.00-7.23
Very dense, greyish yellow, silty sand.					Refusal	*SPT-5	7.80-7.84 7.80
		100			4.0 cm Pentn.	R1	CR=NIL
					Refusal	DS-2	RQD=NIL
		100			3.0 cm Pentn.	*SPT-6	8.50-8.53 8.50
					Refusal	R2	CR=NIL
		100			3.0 cm Pentn.	DS-3	RQD=NIL
					Refusal	*SPT-7	9.25-9.28 9.25
		100			3.0 cm Pentn.	R3	CR=NIL
					Refusal	DS-4	RQD=NIL
		100			4.0 cm Pentn.	*SPT-8	10.00-10.04 10.00
					Refusal	R4	CR=NIL
		100			3.0 cm Pentn.	DS-5	RQD=NIL
					Refusal	*SPT-9	10.75-10.78 10.75
		100			2.0 cm Pentn.	R5	CR=NIL
					Refusal	DS-6	RQD=NIL
		100			3.0 cm Pentn.	*SPT-10	11.50-11.52 11.50
					Refusal	R6	CR=NIL
		100			3.0 cm Pentn.	DS-7	RQD=NIL
					Refusal	*SPT-11	12.25-12.28 12.25
		100			3.0 cm Pentn.	R7	CR=NIL
					Refusal	DS-8	RQD=NIL
13.00m							13.00

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.76 Co-ordinates E= 1383.000 N= 1128.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/07/17
Penetrometer (SPT)	17	Undisturbed (UDS)	3	Completion Date : 17/07/17
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	13	Level Of Ground : 275.731 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.0 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)
Completely weathered, light greyish yellow, medium to coarse grained, completely decomposed sandstone.	13.00m	100	Refusal		*SPT-12	13.00-13.03 13.00
			3.0 cm Pentn.		R8	CR=NIL
			Refusal		DS-9	RQD=NIL
		100	3.0 cm Pentn.		*SPT-13	13.75-13.78 13.75
			Refusal		R9	CR=NIL
			Refusal		DS-10	RQD=NIL
		100	2.0 cm Pentn.		*SPT-14	14.50-14.52 14.50
			Refusal		R10	CR=NIL
			Refusal		DS-11	RQD=NIL
		100	3.0 cm Pentn.		*SPT-15	15.25-15.28 15.25
Highly to moderately weathered, brownish yellow, coarse grained, highly fractured sandstone.			Refusal		R11	CR=NIL
			Refusal		DS-12	RQD=NIL
		100	4.0 cm Pentn.		*SPT-16	16.00-16.04 16.00
			Refusal		R12	CR=NIL
			Refusal		DS-13	RQD=NIL
	16.75m	100	3.0 cm Pentn.		*SPT-17	16.75-16.78 16.75
			NX rotary drilling from 7.80m to 20.00m		R13	CR=23% RQD=NIL
					R14	CR=26% RQD=NIL
					R15	CR=24% RQD=NIL
					R16	CR=30% RQD=NIL
					R17	CR=42% RQD=NIL
	20.00m					20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 31/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.77 Co-ordinates E= 1576.000 N= 1200.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/07/17
Penetrometer (SPT)	12	Undisturbed (UDS)	3	Completion Date : 18/07/17
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	6	Level Of Ground : 275.73 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m							DS-1	0.50
Medium, greyish brown, silty clay / clayey silt with fine sand mixture. (CL)		2	3	3	6		SPT-1	1.00-1.45
							UDS-1	2.00-2.45
		3	4	7	11		SPT-2	3.00-3.45
3.00m							UDS-2	4.00-4.45
		5	6	6	12		SPT-3	5.00-5.45
		6	8	9	17		SPT-4	7.00-7.45
7.50m		48	50	7.0	>100	cm Pentn.	SPT-5	8.00-8.22
8.30m		50		4.0	Refusal	cm Pentn.	*SPT-6	8.30-8.34 8.30
Completely weathered, greyish yellow, medium grained, fully decomposed sandstone.		50		3.0	Refusal	cm Pentn.	R1 DS-2	CR=NIL RQD=NIL
		50		2.0	Refusal	cm Pentn.	*SPT-7	9.00-9.03 9.00
		50		3.0	Refusal	cm Pentn.	R2 DS-3	CR=NIL RQD=NIL
10.50m		50		3.0	Refusal	cm Pentn.	*SPT-8	9.75-9.77 9.75
Completely to highly weathered, light whitish yellow to brownish yellow, medium to coarse grained, highly fractured sandstone.							R3 DS-4	CR=NIL RQD=NIL
							*SPT-9	10.50-10.53 10.50
							R4	CR=20% RQD=NIL
							R5	CR=22% RQD=NIL
							R6	CR=21% RQD=NIL
13.00m								11.25
								12.00
								12.75

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 31/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.77 Co-ordinates E= 1576.000 N= 1200.000

Field Test	Nos	Samples	Nos	Commencement Date : 17/07/17
Penetrometer (SPT)	12	Undisturbed (UDS)	3	Completion Date : 18/07/17
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	6	Level Of Ground : 275.73 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.6 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
13.00m Completely to highly weathered, light whitish yellow to brownish yellow, medium to coarse grained, fully fractured sandstone.						R7	CR=24% RQD=NIL 13.50
						R8	CR=18% RQD=NIL 14.25
						*SPT-10	14.25-14.28
						R9	CR=20% RQD=NIL 15.00
						R10	CR=24% RQD=NIL 15.75
						R11	CR=NIL RQD=NIL 16.50
						DS-5	
						*SPT-11	16.50-16.53
						R12	CR=NIL RQD=NIL 17.25
						DS-6	
18.00m Highly weathered, light whitish yellow to brownish yellow, medium to coarse grained, fully fractured sandstone.						*SPT-12	17.25-17.28
						R13	CR=20% RQD=NIL 18.00
						R14	CR=28% RQD=NIL 18.75
						R15	CR=30% RQD=NIL 19.50
20.00m						R16	CR=34% RQD=NIL 20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 31/07/2017			Sheet No:
BORE LOG DATA SHEET					BORE HOLE NO.78			Co-ordinates $E=1400.000$ $N=1256.000$	
Field Test	Nos	Samples		Nos	Commencement Date : 17/07/17				
Penetrometer (SPT)	25	Undisturbed (UDS)		2	Completion Date : 18/07/17				
Cone (Pc)		Penetrometer (SPT)		25	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		21	Level Of Ground : 276.258 m.				
		Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.4 m.				
DESCRIPTION				SYMBOL	N-VALUE EACH DIVN. = 15cm			SAMPLES Ref. No Depth (m)	
0.00m									
Filled up with coal dust.								DS-1	0.50
1.00m								SPT-1	1.00-1.45
Stiff to very stiff, brownish grey, silty clay / clayey silt with sand mixture. (CL)								UDS-1	2.00-2.45
4.00m								SPT-2	3.00-3.45
Medium dense, brownish grey, silty sand. (SM)								*UDS-2	4.00-4.45
6.00m								SPT-3	5.00-5.45
Very dense, brownish grey, silty sand (SM) with decomposed rock fragment. 6.50m								SPT-4	6.00-6.28
								*SPT-5	6.50-6.54 6.50
								R1 DS-2	CR=NIL RQD=NIL
								*SPT-6	7.25-7.28 7.25
								R2 DS-3	CR=NIL RQD=NIL
								*SPT-7	8.00-8.04 8.00
								R3 DS-4	CR=NIL RQD=NIL
								*SPT-8	8.75-8.77 8.75
								R4 DS-5	CR=NIL RQD=NIL
								*SPT-9	9.50-9.53 9.50
								R5 DS-6	CR=NIL RQD=NIL
								*SPT-10	10.25-10.29 10.25
								R6 DS-7	CR=NIL RQD=NIL
								*SPT-11	11.00-11.03 11.00
								R7 DS-8	CR=NIL RQD=NIL
								*SPT-12	11.75-11.77 11.75
								R8 DS-9	CR=NIL RQD=NIL
								*SPT-13	12.50-12.54 12.50
12.50m								R9	CR=26% RQD=NIL
Highly weathered, brownish grey, medium grained, moderately fractured sandstone. 13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST					
Job No : 3973M		Created by : S.NATH		Created on : 31/07/2017	
Sheet No:					
BORE LOG DATA SHEET			BORE HOLE NO.78		Co-ordinates E= 1400.000 N= 1256.000
Field Test	Nos	Samples	Nos	Commencement Date : 17/07/17	
Penetrometer (SPT)	25	Undisturbed (UDS)	2	Completion Date : 18/07/17	
Cone (Pc)		Penetrometer (SPT)	25	Bore Hole Diameter : 150 mm. / N.X	
Vane (V)		Disturbed (DS)	21	Level Of Ground : 276.258 m.	
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level : 2.4 m.	
DESCRIPTION		SYMBOL	N-VALUE		SAMPLES
			EACH DIVN. = 15cm		Ref. No
					Depth (m)
13.00m			NX rotary drilling from 6.50m to 25.00m		13.25
					R10 CR=30% RQD=NIL
					14.00
					R11 CR=32% RQD=16%
					14.75
					R12 CR=40% RQD=NIL
					15.50
					R13 CR=38% RQD=17%
					16.25
					R14 CR=NIL RQD=NIL
					17.00
					R15 CR=NIL RQD=NIL
					17.75
					R16 CR=NIL RQD=NIL
					18.50
					R17 CR=NIL RQD=NIL
					19.25
					R18 CR=NIL RQD=NIL
					20.00
					R19 CR=NIL RQD=NIL
					20.75
					R20 CR=NIL RQD=NIL
					21.50
					R21 CR=NIL RQD=NIL
					22.25
					R22 CR=NIL RQD=NIL
					23.00
					R23 CR=NIL RQD=NIL
					23.75
					R24 CR=NIL RQD=NIL
					24.50
					R25 CR=NIL RQD=NIL
					25.00

Highly weathered, brownish grey, medium grained, moderately fractured sandstone.

16.25m

Completely weathered, brownish grey, coarse grained, fully decomposed & disintegrated sandstone.

25.00m

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.79		Co-ordinates $E=1395.000$ $N=1358.000$		
Field Test	Nos	Samples	Nos	Commencement Date : 15/07/17					
Penetrometer (SPT)	17	Undisturbed (UDS)	1	Completion Date : 17/07/17					
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)		Disturbed (DS)	13	Level Of Ground : 275.727 m.					
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.9 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									
Filled up with coal dust.							DS-1	0.50	
1.00m						10	SPT-1	1.00-1.45	
Medium dense, yellowish brown, silty sand with clay binders & calcareous nodules. (SM)							UDS-1	2.00-2.45	
						18	SPT-2	3.00-3.45	
4.00m						>100	SPT-3	4.00-4.28	
Very dense, light grey, silty sand with decomposed fragment. (SM)						5.5 cm Pentn.			
						>100	SPT-4	5.00-5.09	
5.40m						100 9.0 cm Pentn.	*SPT-5	5.40-5.44 5.40	
						Refusal	R1	CR=21% RQD=NIL 5.75	
						4.0 cm Pentn.	R2	CR=24% RQD=NIL	
						NX rotary drilling from 5.40m to 20.00m		6.50	
Highly weathered, light grey, coarse grained, medium fractured sandstone.							R3	CR=26% RQD=NIL 7.25	
							R4	CR=24% RQD=NIL 8.00	
							R5	CR=22% RQD=NIL 8.75	
8.75m							R6	CR=NIL RQD=NIL 9.50	
						Refusal	*SPT-6	9.50-9.54 10.25	
						4.0 cm Pentn.	R7	CR=NIL RQD=NIL 10.25	
						Refusal	*SPT-7	10.25-10.28 11.00	
						3.0 cm Pentn.	R8	CR=NIL RQD=NIL 11.00	
						Refusal	*SPT-8	11.00-11.04 11.75	
						4.0 cm Pentn.	R9	CR=NIL RQD=NIL 11.75	
						Refusal	*SPT-9	11.75-11.77 12.50	
						2.0 cm Pentn.	R10	CR=NIL RQD=NIL 12.50	
						Refusal	*SPT-10	12.50-12.54 12.50	
						4.0 cm Pentn.	R11	CR=NIL RQD=NIL	
13.00m									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.79 Co-ordinates E= 1395.000 N= 1358.000

Field Test	Nos	Samples	Nos	Commencement Date : 15/07/17
Penetrometer (SPT)	17	Undisturbed (UDS)	1	Completion Date : 17/07/17
Cone (Pc)		Penetrometer (SPT)	17	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	13	Level Of Ground : 275.727 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 2.9 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)
Completely weathered, light grey, coarse grained, fully decomposed & disintegrated sandstone.	13.00m	Refusal	DS-7	*SPT-11	13.25-13.28	13.25
		3.0 cm Pentn.	R12		CR=NIL	
		Refusal	DS-8	*SPT-12	14.00-14.04	14.00
		4.0 cm Pentn.	R13		CR=NIL	
		Refusal	DS-9	*SPT-13	14.75-14.77	14.75
		2.0 cm Pentn.	R14		CR=NIL	
		Refusal	DS-10	*SPT-14	15.50-15.54	15.50
		4.0 cm Pentn.	R15		CR=NIL	
		Refusal	DS-11	*SPT-15	16.25-16.28	16.25
		3.0 cm Pentn.	R16		CR=NIL	
Highly weathered, brownish grey, fine grained, moderately fractured sandstone.	17.75m	Refusal	DS-12	*SPT-16	17.00-17.04	17.00
		4.0 cm Pentn.	R17		CR=NIL	
		Refusal	DS-13	*SPT-17	17.75-17.77	17.75
		2.0 cm Pentn.	R18		CR=24%	
					RQD=NIL	
						18.50
					R19	CR=26%
						RQD=12%
						19.25
					R20	CR=28%
	20.00m					RQD=16%
						20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.80 Co-ordinates E= 1336.000 N= 1449.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/07/17
Penetrometer (SPT)	8	Undisturbed (UDS)	5	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 283.053 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m							DS-1	0.50
		3	4	3	7		SPT-1	1.00-1.45
							UDS-1	2.00-2.45
		8	7	10	17		SPT-2	3.00-3.45
Medium dense, yellowish grey, silty sand. (SM)							UDS-2	4.00-4.45
		5	5	6	11		SPT-3	5.00-5.45
							*UDS-3	6.00-6.45
7.00m		4	4	4	8		SPT-4	7.00-7.45
							UDS-4	8.00-8.45
Stiff to very stiff, deep grey, clayey silt / silty clay with sand mixture. (CL)		3	5	4	9		SPT-5	9.00-9.45
		12	12	13	25		SPT-6	10.00-10.45
11.00m							*UDS-5	11.00-11.17
Very dense, brownish grey, silty sand with decomposed fragment. (SM)		40	60	4.5	>100	Pentr.	SPT-7	12.00-12.27
12.50m		100			Refusal		*SPT-8	12.50-12.5412.50
13.00m					4.0	Pentr.	R1	CR=32% RQD=NIL

Receipt No : 292418/2024/PS-HQ-HRM

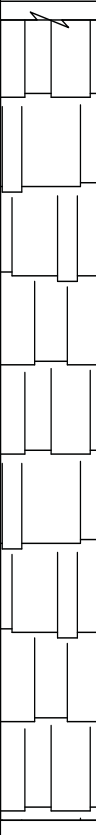
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

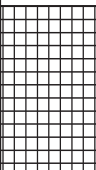
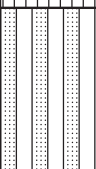
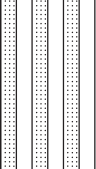
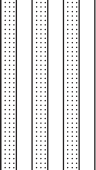
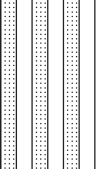
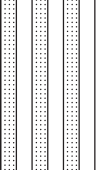
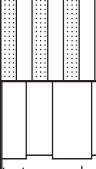
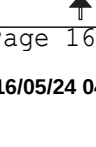
BORE LOG DATA SHEET BORE HOLE NO.80 Co-ordinates E= 1336.000 N= 1449.000

Field Test	Nos	Samples	Nos	Commencement Date : 13/07/17
Penetrometer (SPT)	8	Undisturbed (UDS)	5	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	8	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 283.053 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.1 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)

Highly to moderately weathered, brownish grey, fine grained, moderately fractured sandstone.		NX rotary drilling from 12.50m to 20.00m			R2	13.25 CR=36% RQD=NIL
					R3	14.00 CR=30% RQD=NIL
					R4	14.75 CR=48% RQD=19%
					R5	15.50 CR=40% RQD=21%
					R6	16.25 CR=34% RQD=17%
					R7	17.00 CR=39% RQD=18%
					R8	17.75 CR=42% RQD=24%
					R9	18.50 CR=44% RQD=21%
					R10	19.25 CR=47% RQD=39%
						20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.81		Co-ordinates $E=1053.000$ $N=1433.000$		
Field Test	Nos	Samples		Nos	Commencement Date : 16/07/17				
Penetrometer (SPT)	9	Undisturbed (UDS)		1	Completion Date : 17/07/17				
Cone (Pc)		Penetrometer (SPT)		9	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		1	Level Of Ground : 281.309 m.				
		Water Sample (WS)		0	Water Struck At : Standing Water Level : 5.8 m.				
DESCRIPTION				SYMBOL	N-VALUE EACH DIVN. = 15cm			SAMPLES Ref. No Depth (m)	
0.00m					12 12 14 26			DS-1	0.50
1.50m								SPT-1	1.00-1.45
Very stiff, brownish yellow, silty clay with sand mixture & traces of kankars. (CL)					13 18 22 40			*UDS-1	2.00-2.45
								SPT-2	3.00-3.45
Dense to very dense, yellowish grey, silty coarse grained sand with decomposed rock fragment. (SM)					14 20 23 43			SPT-3	4.00-4.45
								SPT-4	5.00-5.45
9.50m					19 21 25 46			SPT-5	6.00-6.26
								SPT-6	7.00-7.19
Highly weathered, light yellowish grey, medium grained, highly fractured sandstone.					31 69 11 >100 cm Pentn.			SPT-7	8.00-8.15
								SPT-8	9.00-9.12
11.75m					39 61 4.0 >100 cm Pentn.			*SPT-9	9.50-9.54
								R1	CR=28% RQD=NIL
Moderately to slightly weathered, yellowish grey to light pinkish grey, medium to coarse grained, highly to moderately fractured roc					100 15 cm >100 Pentn.			R2	CR=35% RQD=NIL
								R3	CR=37% RQD=NIL
13.00m					100 12 cm >100 Pentn.			R4	CR=55% RQD=NIL
								R5	CR=65% RQD=NIL
NX rotary drilling from 9.50m to 20.00m				100 Refusal			R1	9.50	
13.00m					10.25 11.00 11.75 ↓			R2	10.25
								R3	11.00
13.00m					12.50 13.00 ↓			R4	12.50
								R5	13.00

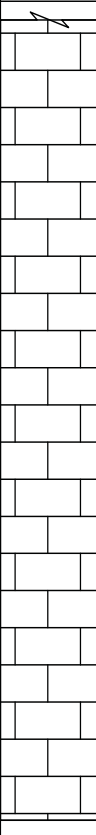
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.81 Co-ordinates E= 1053.000 N= 1433.000

Field Test	Nos	Samples	Nos	Commencement Date : 16/07/17
Penetrometer (SPT)	9	Undisturbed (UDS)	1	Completion Date : 17/07/17
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 281.309 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 5.8 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Moderately to slightly weathered, yellowish grey to light pinkish grey, medium to coarse grained, highly to moderately fractured sandstone.								13.25
							R6	CR=64% RQD=60%
							R7	CR=63% RQD=28%
							R8	CR=65% RQD=16%
							R9	CR=72% RQD=NIL
							R10	CR=69% RQD=25%
							R11	CR=79% RQD=24%
							R12	CR=80% RQD=NIL
							R13	CR=75% RQD=60%
							R14	CR=80% RQD=65%
								17.75
								18.50
								19.25
								20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 26/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.82

Co-ordinates

E= 786.000
N= 1436.000

Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 281.142 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.90 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m						DS-1	0.50
Very stiff, yellowish brown, silty clay / clayey silt with sand mixture. Obs. grey patches. (CL)		10	13	15	28	SPT-1	1.00-1.45
					>100	*UDS-1	2.00-2.18
2.40m		31	100	5.5	cm Pentn.	SPT-2	2.50-2.78
Very dense, yellowish grey, silty sand with decomposed rock fragment. (SM)		100			Refusal	*SPT-3	2.80-2.84 2.80
2.80m				4.0	cm Pentn.	R1	CR=14% RQD=NIL
		100			Refusal	*SPT-4	3.50-3.54 3.50
				4.0	cm Pentn.	R2	CR=16% RQD=NIL
Completely to highly weathered, yellowish grey, coarse to medium grained, highly fractured sandstone.		100		3.0	cm Pentn.	*SPT-5	4.25-4.28 4.25
		100			Refusal	R3	CR=15% RQD=NIL
				2.0	cm Pentn.	*SPT-6	5.00-5.02 5.00
		100			Refusal	R4	CR=17% RQD=NIL
				2.0	cm Pentn.	*SPT-7	5.75-5.77 5.75
						R5	CR=21% RQD=NIL
6.50m					NX rotary drilling from 2.80m to 25.00m	R6	CR=27% RQD=NIL
Highly weathered, yellowish grey, coarse to medium grained, highly fractured sandstone.						R7	CR=32% RQD=NIL
						R8	CR=35% RQD=23%
8.75m						R9	CR=44% RQD=12%
						R10	CR=42% RQD=13%
Moderately weathered, light yellowish grey to grey, medium grained, moderately fractured sandstone.						R11	CR=45% RQD=21%
						R12	CR=48% RQD=24%
						R13	CR=42% RQD=24%
						R14	CR=43% RQD=12%
13.00m							

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.82 Co-ordinates E= 786.000 N= 1436.000

Field Test	Nos	Samples	Nos	Commencement Date : 14/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	1	Completion Date : 15/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 281.142 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.90 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
13.00m								13.25
Moderately weathered, light yellowish grey to grey, medium grained, moderately fractured sandstone.							R15	CR=46% RQD=35%
							R16	CR=58% RQD=22%
							R17	CR=52% RQD=NIL
							R18	CR=56% RQD=18%
16.25m								16.25
Slightly weathered, yellowish grey to light greyish yellow, medium grained, slightly fractured sandstone.							R19	CR=60% RQD=12%
							R20	CR=65% RQD=49%
							R21	CR=63% RQD=56%
							R22	CR=69% RQD=42%
20.00m								20.00
Slightly weathered, yellowish grey to light greyish yellow, medium grained, slightly fractured sandstone.							R24	CR=70% RQD=56%
							R25	CR=62% RQD=40%
							R26	CR=60% RQD=48%
							R27	CR=62% RQD=45%
25.00m								25.00
							R28	CR=69% RQD=51%
							R29	CR=65% RQD=36%
							R30	CR=72% RQD=48%

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M		Created by : S.NATH		Created on : 26/07/2017		Sheet No:			
BORE LOG DATA SHEET				BORE HOLE NO.83		Co-ordinates E= 731.000 N= 1429.000			
Field Test	Nos	Samples	Nos	Commencement Date : 12/07/17 Completion Date : 13/07/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 281.86 m. Water Struck At : Standing Water Level : 6.95 m.					
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm			SAMPLES Ref. No Depth (m)			
0.00m Filled up with boulder & rock dust.									
0.55m									
Very stiff, yellowish brown, silty clay / clayey silt with grey patches & sand mixture. (CL)			12	14	16	30	SPT-1	1.00-1.45	
2.00m			27	100	10 cm Pentn.	>100	SPT-2	2.00-2.25	
2.30m Very dense, yellowish grey, silty (SM) sand with traces of decomposed rock fragment.			100		Refusal		*SPT-3	2.30-2.34	2.30
					4.0 cm Pentn.		R1	CR=14% RQD=NIL	
			100		Refusal		*SPT-4	3.00-3.04	3.00
					4.0 cm Pentn.		R2	CR=08% RQD=NIL	
Completely to highly weathered, yellowish grey, coarse grained sandstone.			100		Refusal		*SPT-5	3.75-3.79	3.75
					4.0 cm Pentn.		R3	CR=24% RQD=NIL	
4.80m									4.50
Highly weathered, yellowish grey, coarse grained sandstone.							R4	CR=33% RQD=13%	
									5.25
							R5	CR=36% RQD=24%	
6.00m									6.00
							R6	CR=49% RQD=35%	
									6.75
Moderately to slightly weathered, yellowish grey, coarse to medium grained sandstone.							R7	CR=45% RQD=24%	
									7.50
							R8	CR=48% RQD=25%	
8.25m									8.25
							R9	CR=56% RQD=35%	
									9.00
							R10	CR=52% RQD=33%	
									9.75
							R11	CR=60% RQD=40%	
									10.50
Moderately to slightly weathered, yellowish grey, coarse to medium grained sandstone.							R12	CR=63% RQD=43%	
									11.25
							R13	CR=65% RQD=46%	
									12.00
							R14	CR=67% RQD=41%	
									12.75
13.00m									

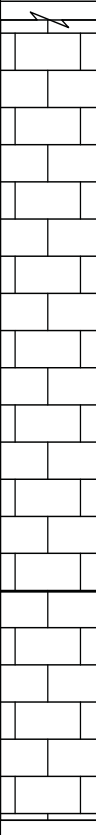
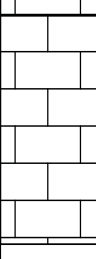
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.83 Co-ordinates E= 731.000 N= 1429.000

Field Test	Nos	Samples	Nos	Commencement Date : 12/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 13/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 281.86 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.95 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Moderately to slightly weathered, yellowish grey, coarse to medium grained sandstone.		R15	CR=73% RQD=47%	13.50
		R16	CR=72% RQD=40%	14.25
		R17	CR=76% RQD=43%	15.00
		R18	CR=78% RQD=48%	15.75
		R19	CR=75% RQD=43%	16.50
		R20	CR=77% RQD=48%	17.25
		R21	CR=79% RQD=52%	18.00
		R22	CR=87% RQD=47%	18.75
		R23	CR=90% RQD=61%	19.50
		R24	CR=92% RQD=76%	20.00
Fresh, yellowish grey, coarse grained sandstone.				

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.84 Co-ordinates E= 444 N= 1421

Field Test	Nos	Samples	Nos	Commencement Date : 09/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	1	Completion Date : 10/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 278.117 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.7 m.

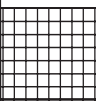
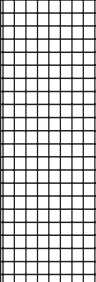
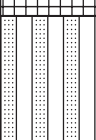
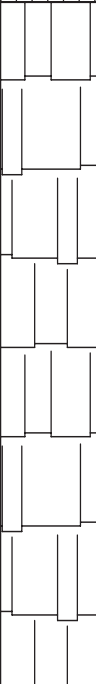
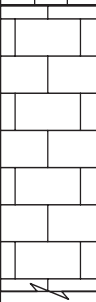
DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Filled up soil consists of coal dust.							DS-1	0.50
0.50m								
Stiff, yellowish brown to yellowish grey, silty clay / clayey silt with traces of sand mixture. Obs. calcareous nodules.		3	4	5	9		SPT-1	1.00-1.45
(CL)							UDS-1	2.00-2.45
3.50m								
Very dense, yellowish grey, silty sand with traces of decomposed rock fragment. (SM)		21	43	60	93	10 cm Pentn.	SPT-2	3.00-3.40
4.00m		100	8.0	cm Pentn.	>100	Refusal	SPT-3	3.70-3.78
		100	4.0	cm Pentn.	Refusal		*SPT-4	4.00-4.04 4.00
Completely to highly weathered, yellowish grey, coarse to medium grained fractured sandstone.		100	4.0	cm Pentn.	Refusal		R1	CR=08% RQD=NIL
		NX	rotary drilling from 4.00m to 20.00m				*SPT-5	4.75-4.79 4.75
5.50m							R2	CR=25% RQD=NIL
							R3	CR=29% RQD=NIL
							R4	CR=32% RQD=NIL
							R5	CR=36% RQD=NIL
Highly to moderately weathered, yellowish grey, coarse to medium grained fractured sandstone.							R6	CR=31% RQD=NIL
							R7	CR=29% RQD=NIL
							R8	CR=37% RQD=25%
10.00m							R9	CR=40% RQD=NIL
							R10	CR=45% RQD=37%
Highly to moderately weathered, yellowish grey, medium to coarse grained sandstone.							R11	CR=49% RQD=36%
							R12	CR=48% RQD=17%
13.00m								13.00

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST					
Job No : 3973M		Created by : S.NATH		Created on : 15/07/2017	
Sheet No:					
BORE LOG DATA SHEET			BORE HOLE NO.85		Co-ordinates E= 399 N= 1442
Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17	
Penetrometer (SPT)	19	Undisturbed (UDS)	1	Completion Date : 08/07/17	
Cone (Pc)		Penetrometer (SPT)	19	Bore Hole Diameter : 150 mm. / N.X	
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.255 m.	
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level : 2.55 m.	
DESCRIPTION		SYMBOL	N-VALUE		SAMPLES
			EACH DIVN. = 15cm		Ref. No
					Depth (m)
0.00m					
Filled up soil consists of coal dust & sand. Obs. brick bats.					DS-1 0.50
					SPT-1 1.00-1.45
1.70m					
Very stiff, light greenish grey, silty clay with traces of sand mixture. Obs. gravel pcs. (CL)					UDS-1 2.00-2.45
					SPT-2 3.00-3.45
4.00m					
Very dense, yellowish grey, silty sand with traces of decomposed rock fragments. (SM)					SPT-3 4.20-4.28
4.40m					*SPT-4 4.40-4.44 CR=23% RQD=NIL
Highly weathered, yellowish brown, fine grained sandstone.					R1 5.00
					R2 CR=NIL RQD=NIL
					*SPT-5 5.75-5.79 CR=NIL RQD=NIL
					R3 CR=NIL RQD=NIL
					*SPT-6 6.50-6.54 CR=NIL RQD=NIL
Completely weathered, yellowish grey, fine grained, decomposed & disintegrated sandstone.					R4 CR=NIL RQD=NIL
					*SPT-7 7.25-7.28 CR=NIL RQD=NIL
					R5 CR=NIL RQD=NIL
					*SPT-8 8.00-8.03 CR=NIL RQD=NIL
					R6 CR=NIL RQD=NIL
					*SPT-9 8.75-8.77 CR=37% RQD=24%
8.75m					R7 CR=40% RQD=29%
Highly / completely weathered, whitish grey to yellowish grey, fine grained sandstone.					R8 CR=08% RQD=NIL
					*SPT-10 11.00-11.04 CR=NIL RQD=NIL
10.25m					R9 CR=NIL RQD=NIL
					*SPT-11 11.75-11.78 CR=NIL RQD=NIL
					R10 CR=NIL RQD=NIL
					*SPT-12 12.50-12.54 CR=NIL RQD=NIL
					R11 CR=NIL RQD=NIL
					R12 CR=NIL RQD=NIL
13.00m					

BH-85/Sheet-2

BH-86/Sheet-1

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST		
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:			
BORE LOG DATA SHEET					BORE HOLE NO.86			Co-ordinates E= 342.000 N= 1428.000				
Field Test		Nos	Samples		Nos	Commencement Date : 05/07/17 Completion Date : 07/07/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 276.546 m. Water Struck At : Standing Water Level : 2.5 m.						
Penetrometer (SPT)		4	Undisturbed (UDS)		3							
Cone (Pc)			Penetrometer (SPT)		4							
			Disturbed (DS)		1							
Vane (V)			Water Sample (WS)		0							
DESCRIPTION					SYMBOL	N-VALUE				SAMPLES		
						EACH DIVN. = 15cm				Ref. No	Depth (m)	
Moderately weathered, light grey, fine grained, slightly fractured sandstone.					13.00m					R10	CR=44% RQD=40%	13.00
Highly to moderately weathered, brownish grey, fine to medium grained, moderately fractured sandstone.					13.75m					R11	CR=28% RQD=NIL	13.75
									R12	CR=29% RQD=NIL	14.50	
									R13	CR=23% RQD=NIL	15.25	
									R14	CR=21% RQD=NIL	16.00	
									R15	CR=29% RQD=NIL	16.75	
									R16	CR=24% RQD=16%	17.50	
									R17	CR=40% RQD=21%	18.25	
									R18	CR=55% RQD=36%	19.00	
											20.00	
										20.00m		
N.B. - '*' means sample could not be recovered.												

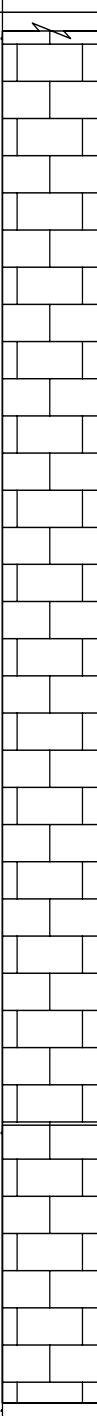
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).															
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017			Sheet No:						
BORE LOG DATA SHEET					BORE HOLE NO.87					Co-ordinates					
										E= 229.997 N= 1435.641					
Field Test		Nos	Samples		Nos	Commencement Date : 27/06/17									
Penetrometer (SPT)		3	Undisturbed (UDS)		2	Completion Date : 28/06/17									
Cone (Pc)			Penetrometer (SPT)		3	Bore Hole Diameter : 150 mm. / N.X									
Vane (V)			Disturbed (DS)		1	Level Of Ground : 273.603 m.									
			Water Sample (WS)		0	Water Struck At :									
						Standing Water Level : 4.8 m.									
DESCRIPTION					SYMBOL	N-VALUE					SAMPLES				
						EACH DIVN. = 15cm					Ref. No	Depth (m)			
0.00m Brownish grey, sandy silt with kankars.											DS-1	0.50			
0.80m											UDS-1	1.00-1.45			
Hard, brownish grey, silty clay / clayey silt with sand mixture & calcareous. (CL)						35					SPT-1	2.00-2.45			
3.50m						8 12 23					UDS-2	3.00-3.45			
Very dense, brownish grey, silty sand with decomposed rock fragments & mica. (SM)						>100					SPT-2	4.00-4.28			
4.50m						35 65 13 cm Pentn. Refusal					*SPT-3	4.50-4.54 4.50			
Highly to moderately weathered, yellowish grey to brownish grey, fine grained, moderately fractured sandstone.						100					R1	CR=37% RQD=16%			
						4.0 cm Pentn.									5.25
						NX rotary drilling from 4.50m to 25.00m									6.00
															6.75
															7.50
															8.25
															9.00
															9.75
															10.50
															11.25
															12.00
Moderately to slightly weathered, yellowish grey to brownish grey, fine grained, moderately fractured sandstone.											R9	CR=53% RQD=19%			
10.50m											R10	CR=59% RQD=21%			
										R11	CR=58% RQD=45%				
13.00m											12.75				

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.87 Co-ordinates E= 229.997 N= 1435.641

Field Test	Nos	Samples	Nos	Commencement Date : 27/06/17
Penetrometer (SPT)	3	Undisturbed (UDS)	2	Completion Date : 28/06/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 273.603 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.8 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES			
		EACH DIVN. = 15cm						Ref. No	Depth (m)		
13.00m								R12	CR=60% RQD=56%	13.50	
									R13	CR=73% RQD=43%	14.25
									R14	CR=65% RQD=45%	15.00
									R15	CR=67% RQD=49%	15.75
									R16	CR=60% RQD=52%	16.50
									R17	CR=62% RQD=39%	17.25
									R18	CR=51% RQD=25%	18.00
									R19	CR=52% RQD=32%	18.75
									R20	CR=57% RQD=33%	19.50
									R21	CR=68% RQD=NIL	20.25
Moderately to slightly weathered, yellowish grey to brownish grey, fine grained, moderately fractured sandstone.								R22	CR=61% RQD=41%	21.00	
								R23	CR=76% RQD=73%	21.75	
								R24	CR=64% RQD=49%	22.50	
								R25	CR=68% RQD=13%	23.25	
								R26	CR=53% RQD=17%	24.00	
								R27	CR=62% RQD=25%	25.00	
22.50m											
Moderately weathered, blackish grey to brownish grey, fine grained, moderately fractured interbedded sandstone - shale.											
25.00m											
N.B. — ‘*’ means sample could not be recovered.											

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

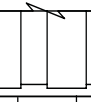
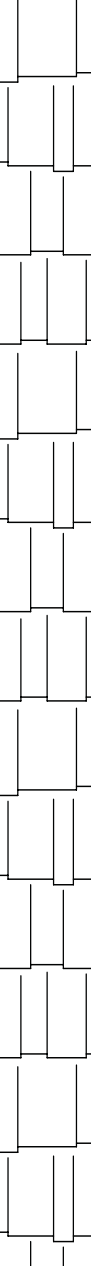
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.88 Co-ordinates E= 386.000 N= 1496.000

Field Test	Nos	Samples	Nos	Commencement Date : 11/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 13/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 276.833 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
Filled up soil consists of clayey silt & rock dust.						DS-1	0.50
						SPT-1	1.00-1.45
Medium, yellowish brown to yellowish grey, silty clay / clayey silt with sand mixture. (CL)						UDS-1	2.00-2.45
						SPT-2	3.00-3.45
Dense, yellowish grey, silty sand. (SM)						*UDS-2	4.00-4.18
						SPT-3	5.00-5.40
Very dense, yellowish grey, silty sand with traces of decomposed rock. (SM)						*SPT-4	5.50-5.54
						R1	CR=21% RQD=NIL
Highly weathered, yellowish brown, fine grained moderately fractured interbedded sandstone - shale.						R2	CR=22% RQD=NIL
						R3	CR=29% RQD=16%
						R4	CR=40% RQD=24%
						R5	CR=44% RQD=15%
						R6	CR=39% RQD=NIL
						R7	CR=44% RQD=36%
						R8	CR=48% RQD=28%
						R9	CR=32% RQD=NIL
						R10	CR=30% RQD=13%

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:		
BORE LOG DATA SHEET					BORE HOLE NO.88			Co-ordinates E= 386.000 N= 1496.000			
Field Test		Nos	Samples		Nos	Commencement Date : 11/07/17 Completion Date : 13/07/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 276.833 m. Water Struck At : Standing Water Level : 0.85 m.					
Penetrometer (SPT)		4	Undisturbed (UDS)		2						
Cone (Pc)			Penetrometer (SPT)		4						
			Disturbed (DS)		1						
Vane (V)			Water Sample (WS)		0						
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES		
						EACH DIVN. = 15cm			Ref. No	Depth (m)	
Highly to moderately weathered, light blackish grey, fine grained, moderately fractured interbedded sandstone - shale.									R11	CR=36% RQD=17%	13.00
											13.75
Highly to moderately weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.									R12	CR=24% RQD=NIL	14.50
											15.25
											16.00
											16.75
											17.50
											18.25
											19.00
											19.75
											20.50
											21.25
											22.00
											22.75
											23.50
											24.25
											25.00
									R14	CR=36% RQD=16%	
									R15	CR=41% RQD=NIL	
									R16	CR=30% RQD=NIL	
									R17	CR=28% RQD=NIL	
									R18	CR=24% RQD=NIL	
									R19	CR=32% RQD=NIL	
									R20	CR=36% RQD=16%	
									R21	CR=39% RQD=NIL	
									R22	CR=36% RQD=NIL	
									R23	CR=40% RQD=NIL	
									R24	CR=41% RQD=17%	
									R25	CR=45% RQD=28%	
									R26	CR=46% RQD=30%	
N.B. - '*' means sample could not be recovered.											

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO.89		Co-ordinates E= 339 N= 1721		
Field Test	Nos	Samples		Nos	Commencement Date : 26/06/17				
Penetrometer (SPT)	10	Undisturbed (UDS)		2	Completion Date : 27/06/17				
Cone (Pc)		Penetrometer (SPT)		10	Bore Hole Diameter : 150 mm. / N.X				
Vane (V)		Disturbed (DS)		4	Level Of Ground : 280.888 m.				
		Water Sample (WS)		0	Water Struck At :				
					Standing Water Level : 3.3 m.				
DESCRIPTION				SYMBOL	N-VALUE		SAMPLES		
					EACH DIVN. = 15cm		Ref. No	Depth (m)	
0.00m									
							DS-1	0.50	
							*UDS-1	1.00-1.45	
							SPT-1	2.00-2.45	
							*UDS-2	3.00-3.12	
Dense to very dense, brownish grey, sandy silt / silty sand with clay binders. (SM)							SPT-2	4.00-4.45	
							SPT-3	5.00-5.45	
							SPT-4	6.00-6.45	
6.50m									
Very dense, yellowish brown, silty sand with decomposed rock fragments. (SM)							SPT-5	7.00-7.35	
7.70m							*SPT-6	7.70-7.74 7.70	
							R1	CR=NIL RQD=NIL	
							DS-2		
							*SPT-7	8.50-8.53 8.50	
Completely weathered, yellowish brown, medium grained, decomposed & disintegrated sandstone.							R2	CR=NIL RQD=NIL	
							DS-3		
							*SPT-8	9.25-9.29 9.25	
							R3	CR=NIL RQD=NIL	
							DS-4		
10.00m							*SPT-9	10.00-10.03 10.00	
							R4	CR=12% RQD=NIL	
							DS-5		
							*SPT-10	10.75-10.78 10.75	
							R5	CR=24% RQD=NIL	
Highly weathered, yellowish grey, medium to fine grained, fractured sandstone.							R6	CR=28% RQD=NIL	
							R7	CR=25% RQD=NIL	
								11.50	
								12.25	
13.00m								13.00	

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST						
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017			Sheet No:							
BORE LOG DATA SHEET					BORE HOLE NO.89			Co-ordinates E= 339 N= 1721								
Field Test		Nos	Samples		Nos	Commencement Date : 26/06/17 Completion Date : 27/06/17 Bore Hole Diameter : 150 mm. / N.X Level Of Ground : 280.888 m. Water Struck At : Standing Water Level : 3.3 m.										
Penetrometer (SPT)		10	Undisturbed (UDS)		2											
Cone (Pc)			Penetrometer (SPT)		10											
			Disturbed (DS)		4											
Vane (V)			Water Sample (WS)		0											
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES							
						EACH DIVN. = 15cm			Ref. No	Depth (m)						
Highly weathered, yellowish grey, medium to fine grained, fractured sandstone. 13.00m Highly to moderately weathered, yellowish grey, medium to fine grained, fractured sandstone. 20.00m																
						R8	CR=27% RQD=NIL		13.00							
							R9	CR=32% RQD=NIL		13.75						
						R10		CR=26% RQD=NIL		14.50						
							R11	CR=24% RQD=NIL		15.25						
						R12		CR=27% RQD=NIL		16.00						
							R13	CR=30% RQD=NIL		16.75						
						R14		CR=28% RQD=NIL		17.50						
							R15	CR=34% RQD=NIL		18.25						
						R16		CR=36% RQD=NIL		19.00						
											20.00					
						N.B. - '*' means sample could not be recovered.										

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 05/08/2017
Sheet No:		Co-ordinates E= 464.825 N= 1927.071		
BORE LOG DATA SHEET		BORE HOLE NO.90		
Field Test	Nos	Samples	Nos	Commencement Date : 23/07/17
Penetrometer (SPT)	12	Undisturbed (UDS)	0	Completion Date : 24/07/17
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	10	Level Of Ground : 291.830 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 8.7 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
Very dense, yellowish grey, silty coarse grained sand with decomposed rock fragment.		0.00m 0.50m	Refusal	DS-1 0.30 *SPT-1 0.50-0.55 0.50 R1 CR=NIL DS-2 RQD=NIL *SPT-2 1.25-1.30 1.25 R2 CR=NIL DS-3 RQD=NIL *SPT-3 2.00-2.04 2.00 R3 CR=NIL DS-4 RQD=NIL *SPT-4 2.75-2.79 2.75 R4 CR=NIL DS-5 RQD=NIL *SPT-5 3.50-3.53 3.50 R5 CR=NIL DS-6 RQD=NIL *SPT-6 4.25-4.28 4.25 R6 CR=NIL DS-7 RQD=NIL *SPT-7 5.00-5.03 5.00 R7 CR=NIL DS-8 RQD=NIL *SPT-8 5.75-5.77 5.75 R8 CR=NIL DS-9 RQD=NIL *SPT-9 6.50-6.52 6.50 R9 CR=NIL DS-10 RQD=NIL *SPT-10 7.25-7.27 7.25 R10 CR=12% RQD=NIL *SPT-11 8.00-8.02 8.00 R11 CR=15% RQD=NIL *SPT-12 8.75-8.77 8.75 R12 CR=24% RQD=NIL 9.50 R13 CR=21% RQD=NIL 10.25 R14 CR=25% RQD=NIL 11.00 R15 CR=25% RQD=NIL 11.75 R16 CR=24% RQD=NIL 12.50 R17 CR=26% RQD=NIL
Completely weathered, light brownish yellow, medium to fine grained & fully decomposed shale.		7.25m	Refusal	
Completely to highly weathered, greyish yellow to light brownish grey, medium grained & highly fractured shale.		12.50m 13.00m	NX rotary drilling from 0.50m to 20.00m	

BORE HOLE NO.90

Co-ordinates	E= 464.825 N=1927.071
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Field Test	Nos	Samples	Nos	Commencement Date :	23/07/17
Penetrometer (SPT)	12	Undisturbed (UDS)	0	Completion Date :	24/07/17
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter :	150 mm. / N.X
		Disturbed (DS)	10	Level Of Ground :	291.830 m.
Vane (V)		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	8.7 m.

DESCRIPTION	SYMBOL	N-VALUE							SAMPLES	
		EACH DIVN. = 15cm							Ref. No	Depth (m)
13.00m									R18	13.25
Highly weathered, reddish brown, medium grained, highly to moderately fractured shale.										CR=30% RQD=20%
									R19	14.00
									R20	14.75
14.75m										15.50
									R21	16.25
									R22	17.00
Highly weathered, reddish brown, medium grained, highly to moderately fractured sandstone.									R23	17.75
									R24	18.50
									R25	19.25
									R26	20.00
20.00m										

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 05/08/2017
Sheet No:				
BORE LOG DATA SHEET		BORE HOLE NO.91		Co-ordinates E= 486.241 N= 1960.873
Field Test	Nos	Samples	Nos	Commencement Date : 22/07/17
Penetrometer (SPT)	20	Undisturbed (UDS)	0	Completion Date : 23/07/17
Cone (Pc)		Penetrometer (SPT)	20	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	14	Level Of Ground : 291.230 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 7.5 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
Very dense, silty coarse grained sand (SM) with decomposed rock fragment.		0.00m 0.50m	Refusal	DS-1 0.30 *SPT-1 0.50-0.54 0.50
		100	4.0 cm Pentn. Refusal	R1 CR=NIL DS-2 RQD=NIL *SPT-2 1.25-1.29 1.25
		100	4.0 cm Pentn. Refusal	R2 CR=NIL DS-3 RQD=NIL *SPT-3 2.00-2.03 2.00
		100	3.0 cm Pentn. Refusal	R3 CR=NIL DS-4 RQD=NIL *SPT-4 2.75-2.78 2.75
		100	3.0 cm Pentn. Refusal	R4 CR=NIL DS-5 RQD=NIL *SPT-5 3.50-3.53 3.50
Completely weathered, yellowish grey, medium to fine grained, fully decomposed sandstone.		100	3.0 cm Pentn. Refusal	R5 CR=NIL DS-6 RQD=NIL *SPT-6 4.25-4.27 4.25
		100	2.0 cm Pentn. Refusal	R6 CR=NIL DS-7 RQD=NIL *SPT-7 5.00-5.02 5.00
		100	2.0 cm Pentn. Refusal	R7 CR=NIL DS-8 RQD=NIL *SPT-8 5.75-5.77 5.75
		100	2.0 cm Pentn. Refusal	R8 CR=NIL DS-9 RQD=NIL *SPT-9 6.50-6.52 6.50
		100	2.0 cm Pentn. Refusal	R9 CR=16% RQD=NIL *SPT-10 7.25-7.28 7.25
		100	3.0 cm Pentn. Refusal	R10 CR=18% RQD=NIL *SPT-11 8.00-8.02 8.00
		100	2.0 cm Pentn. Refusal	R11 CR=13% RQD=NIL *SPT-12 8.75-8.77 8.75
		100	2.0 cm Pentn. Refusal	R12 CR=16% RQD=NIL *SPT-13 9.50-9.52 9.50
		100	2.0 cm Pentn. Refusal	R13 CR=19% RQD=NIL *SPT-14 10.25-10.27 10.25
		100	2.0 cm Pentn. Refusal	R14 CR=18% RQD=NIL *SPT-15 11.00-11.02 11.00
		100	2.0 cm Pentn. Refusal	R15 CR=24% RQD=20% 11.75
Highly weathered, reddish brown, medium grained, highly fractured sandstone.		11.00m 13.00m	NX rotary drilling from 0.50m to 20.00m	R16 CR=22% RQD=NIL 12.50
				R17 CR=26% RQD=24%

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.91 Co-ordinates E= 486.241 N= 1960.873

Field Test	Nos	Samples	Nos	Commencement Date : 22/07/17
Penetrometer (SPT)	20	Undisturbed (UDS)	0	Completion Date : 23/07/17
Cone (Pc)		Penetrometer (SPT)	20	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	14	Level Of Ground : 291.230 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.5 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)

13.00m						13.25
					R18	CR=27% RQD=NIL
						14.00
					R19	CR=25% RQD=NIL
						14.75
					R20	CR=27% RQD=NIL
						15.50
					R21	CR=37% RQD=NIL
						16.25
16.25m					R22	CR=NIL RQD=NIL
					DS-10	
					*SPT-16	17.00-17.03 17.00
					R23	CR=NIL RQD=NIL
					DS-11	
					*SPT-17	17.75-17.77 17.75
					R24	CR=NIL RQD=NIL
					DS-12	
					*SPT-18	18.50-18.52 18.50
					R25	CR=NIL RQD=NIL
					DS-13	
					*SPT-19	19.25-19.28 19.25
					R26	CR=NIL RQD=NIL
					DS-14	
					*SPT-20	20.00-20.02 20.00
20.00m						

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 05/08/2017
Sheet No:				
BORE LOG DATA SHEET		BORE HOLE NO.92		Co-ordinates E= 478.000 N= 2022.812
Field Test	Nos	Samples	Nos	Commencement Date : 24/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 25/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	5	Level Of Ground : 293.355 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.40 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
Very dense, greyish yellow, silty sand with decomposed rock fragment		0.00m (SM) 0.50m	Refusal	DS-1 *SPT-1 0.30 0.50-0.55 0.50
Completely weathered, brownish yellow, medium to fine grained, fully decomposed rock.		100	5.0 cm Pentr. Refusal	R1 DS-2 *SPT-2 1.25-1.29 1.25
		100	4.0 cm Pentr. Refusal	R2 DS-3 *SPT-3 2.00-2.04 2.00
		100	4.0 cm Pentr. Refusal	R3 DS-4 *SPT-4 2.75-2.78 2.75
		100	3.0 cm Pentr. Refusal	R4 DS-5 *SPT-5 3.50-3.53 3.50
		100	3.0 cm Pentr.	R5 CR=21% RQD=NIL 4.25
Highly weathered, light greyish brown to yellowish grey, medium to fine grained, highly fractured interbedded sandstone - shale.		NX rotary drilling from 0.50m to 20.00m		R6 CR=23% RQD=NIL 5.00
Highly weathered, light greyish brown to yellowish grey, medium to fine grained, highly fractured interbedded sandstone - shale.		6.50m		R7 CR=23% RQD=NIL 5.75
				R8 CR=23% RQD=NIL 6.50
				R9 CR=34% RQD=NIL 7.25
				R10 CR=42% RQD=12% 8.00
				R11 CR=35% RQD=NIL 8.75
Moderately weathered, yellowish brown, coarse to medium grained, highly fractured interbedded sandstone - shale.		11.75m		R12 CR=40% RQD=NIL 9.50
				R13 CR=37% RQD=NIL 10.25
				R14 CR=35% RQD=NIL 11.00
				R15 CR=40% RQD=13% 11.75
				R16 CR=40% RQD=NIL 12.50
		13.00m		R17 CR=44% RQD=NIL

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.92 Co-ordinates E= 478.000 N= 2022.812

Field Test	Nos	Samples	Nos	Commencement Date : 24/07/17
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 25/07/17
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	5	Level Of Ground : 293.355 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.40 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m								13.25
Moderately weathered, yellowish brown, coarse to medium grained, highly fractured interbedded sandstone - shale.							R18	CR=47% RQD=12%
							R19	CR=43% RQD=NIL
							R20	CR=48% RQD=NIL
15.50m								14.75
Highly weathered, yellowish brown to reddish brown, coarse grained, highly fractured interbedded sandstone - shale.							R21	CR=35% RQD=NIL
							R22	CR=21% RQD=NIL
							R23	CR=25% RQD=NIL
							R24	CR=37% RQD=NIL
							R25	CR=24% RQD=NIL
							R26	CR=28% RQD=13%
20.00m								17.00
								17.75
								18.50
								19.25
								20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 05/07/2017
Sheet No:				
BORE LOG DATA SHEET		BORE HOLE NO.93		Co-ordinates E= 441 N= 1942
Field Test	Nos	Samples	Nos	Commencement Date : 27/06/17
Penetrometer (SPT)	24	Undisturbed (UDS)	0	Completion Date : 28/06/17
Cone (Pc)		Penetrometer (SPT)	24	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	23	Level Of Ground : 286.883 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 6.1 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
0.00m				
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)			>100 cm Pentn. Refusal	DS-1 0.50 SPT-1 1.00-1.22
1.50m			4.0 cm Pentn. Refusal	*SPT-2 1.50-1.54 1.50 R1 CR=NIL DS-2 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-3 2.25-2.28 2.25 R2 CR=NIL DS-3 RQD=NIL
			4.0 cm Pentn. Refusal	*SPT-4 3.00-3.04 3.00 R3 CR=NIL DS-4 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-5 3.75-3.78 3.75 R4 CR=NIL DS-5 RQD=NIL
			4.0 cm Pentn. Refusal	*SPT-6 4.50-4.54 4.50 R5 CR=NIL DS-6 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-7 5.25-5.28 5.25 R6 CR=NIL DS-7 RQD=NIL
			4.0 cm Pentn. Refusal	*SPT-8 6.00-6.04 6.00 R7 CR=NIL DS-8 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-9 6.75-6.78 6.75 R8 CR=NIL DS-9 RQD=NIL
Completely weathered, yellowish grey, medium grained, decomposed & disintegrated sandstone.			4.0 cm Pentn. Refusal	*SPT-10 7.50-7.54 7.50 R9 CR=NIL DS-10 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-11 8.25-8.28 8.25 R10 CR=NIL DS-11 RQD=NIL
			4.0 cm Pentn. Refusal	*SPT-12 9.00-9.04 9.00 R11 CR=NIL DS-12 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-13 9.75-9.78 9.75 R12 CR=NIL DS-13 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-14 10.50-10.53 10.50 R13 CR=NIL DS-14 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-15 11.25-11.28 11.25 R14 CR=NIL DS-15 RQD=NIL
			3.0 cm Pentn. Refusal	*SPT-16 12.00-12.03 12.00 R15 CR=NIL DS-16 RQD=NIL
13.00m			3.0 cm Pentn.	*SPT-17 12.75-12.78 12.75

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.93 Co-ordinates E= 441 N= 1942

Field Test	Nos	Samples	Nos	Commencement Date : 27/06/17
Penetrometer (SPT)	24	Undisturbed (UDS)	0	Completion Date : 28/06/17
Cone (Pc)		Penetrometer (SPT)	24	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	23	Level Of Ground : 286.883 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 6.1 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)
Completely weathered, yellowish grey, medium grained, decomposed & disintegrated sandstone.	13.00m				R16 DS-17	CR=NIL RQD=NIL
		100	4.0	cm Pentn.	*SPT-18	13.50-13.54 13.50
					R17 DS-18	CR=NIL RQD=NIL
		100	2.0	cm Pentn.	*SPT-19	14.25-14.27 14.25
					R18 DS-19	CR=NIL RQD=NIL
		100	4.0	cm Pentn.	*SPT-20	15.00-15.04 15.00
					R19 DS-20	CR=NIL RQD=NIL
		100	2.0	cm Pentn.	*SPT-21	15.75-15.77 15.75
					R20 DS-21	CR=NIL RQD=NIL
		100	3.0	cm Pentn.	*SPT-22	16.50-16.53 16.50
Highly weathered, yellowish grey, medium grained sandstone.					R21 DS-22	CR=NIL RQD=NIL
		100	3.0	cm Pentn.	*SPT-23	17.25-17.28 17.25
					R22 DS-23	CR=NIL RQD=NIL
	18.00m	100	3.0	cm Pentn.	*SPT-24	18.00-18.03 18.00
					R23	CR=22% RQD=NIL
						18.75
					R24	CR=26% RQD=NIL
						19.50
	20.00m				R25	CR=27% RQD=NIL
						20.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.94 Co-ordinates E= 365 N= 2058

Field Test	Nos	Samples	Nos	Commencement Date : 28/06/17
Penetrometer (SPT)	16	Undisturbed (UDS)	1	Completion Date : 29/06/17
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	14	Level Of Ground : 284.84 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.8 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m						DS-1	0.50
Dense, yellowish brown, sandy silt. (SM)						*UDS-1	1.00-1.14
		8	16	34	50	SPT-1	2.00-2.45
2.50m						SPT-2	3.00-3.25
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)		29	71	10	>100 cm Pentn. Refusal	*SPT-3	3.50-3.54 3.50
3.50m		100			4.0 cm Pentn. Refusal	R1 DS-2 *SPT-4	CR=NIL RQD=NIL 4.25-4.29 4.25
		100			4.0 cm Pentn. Refusal	R2 DS-3 *SPT-5	CR=NIL RQD=NIL 5.00-5.03 5.00
		100			3.0 cm Pentn. Refusal	R3 DS-4 *SPT-6	CR=NIL RQD=NIL 5.75-5.78 5.75
		100			3.0 cm Pentn. Refusal	R4 DS-5 *SPT-7	CR=NIL RQD=NIL 6.50-6.54 6.50
		100			4.0 cm Pentn. Refusal	R5 DS-6 *SPT-8	CR=NIL RQD=NIL 7.25-7.29 7.25
		100			4.0 cm Pentn. Refusal	R6 DS-7 *SPT-9	CR=NIL RQD=NIL 8.00-8.03 8.00
Completely weathered, yellowish grey, medium grained, decomposed & disintegrated sandstone.		100			3.0 cm Pentn. Refusal	R7 DS-8 *SPT-10	CR=NIL RQD=NIL 8.75-8.79 8.75
		100			4.0 cm Pentn. Refusal	R8 DS-9 *SPT-11	CR=NIL RQD=NIL 9.50-9.53 9.50
		100			3.0 cm Pentn. Refusal	R9 DS-10 *SPT-12	CR=NIL RQD=NIL 10.25-10.29 10.25
		100			4.0 cm Pentn. Refusal	R10 DS-11 *SPT-13	CR=NIL RQD=NIL 11.00-11.04 11.00
		100			4.0 cm Pentn. Refusal	R11 DS-12 *SPT-14	CR=NIL RQD=NIL 11.75-11.78 11.75
		100			3.0 cm Pentn. Refusal	R12 DS-13 *SPT-15	CR=NIL RQD=NIL 12.50-12.53 12.50
13.00m					3.0 cm Pentn.	R13	CR=NIL RQD=NIL

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 05/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.94 Co-ordinates E= 365 N= 2058

Field Test	Nos	Samples	Nos	Commencement Date : 28/06/17
Penetrometer (SPT)	16	Undisturbed (UDS)	1	Completion Date : 29/06/17
Cone (Pc)		Penetrometer (SPT)	16	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	14	Level Of Ground : 284.84 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 4.8 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)

13.00m	Refusal	DS-14				
13.25m	100 NX rotary drilling from 3.50m to 20.00m	*SPT-16	13.25-13.28	13.25		
		R14	CR=24%			
			RQD=NIL			
		R15	CR=27%			
			RQD=NIL			
		R16	CR=29%			
			RQD=NIL			
		R17	CR=28%			
			RQD=NIL			
		R18	CR=30%			
			RQD=NIL			
		R19	CR=34%			
			RQD=NIL			
		R20	CR=36%			
			RQD=NIL			
		R21	CR=39%			
			RQD=14%			
		R22	CR=36%			
			RQD=NIL			
20.00m						

Highly weathered, yellowish grey to deep grey, medium to fine grained, fractured sandstone / shale.

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 05/07/2017
Sheet No:				
BORE LOG DATA SHEET		BORE HOLE NO.95		Co-ordinates E= 345 N= 1908
Field Test	Nos	Samples	Nos	Commencement Date : 25/06/17
Penetrometer (SPT)	9	Undisturbed (UDS)	0	Completion Date : 26/06/17
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	8	Level Of Ground : 282.814 m.
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 3.1 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
0.00m Very dense, yellowish brown, silty sand with decomposed rock fragments. (SM)			Refusal	DS-1 0.50
1.00m			4.0 cm Pentn. Refusal	*SPT-1 1.00-1.04 1.00 R1 CR=NIL RQD=NIL
			3.0 cm Pentn. Refusal	DS-2 1.75-1.78 1.75 *SPT-2 CR=NIL RQD=NIL
			4.0 cm Pentn. Refusal	R2 2.50-2.54 2.50 DS-3 CR=NIL RQD=NIL
			4.0 cm Pentn. Refusal	*SPT-3 3.25-3.29 3.25 DS-4 CR=NIL RQD=NIL
			3.0 cm Pentn. Refusal	DS-5 4.00-4.03 4.00 *SPT-4 CR=NIL RQD=NIL
			3.0 cm Pentn. Refusal	DS-6 4.75-4.78 4.75 *SPT-5 CR=NIL RQD=NIL
			4.0 cm Pentn. Refusal	DS-7 5.50-5.54 5.50 *SPT-6 CR=NIL RQD=NIL
6.25m			3.0 cm Pentn. Refusal	DS-8 6.25-6.28 6.25 *SPT-7 CR=NIL RQD=NIL
			3.0 cm Pentn. Refusal	DS-9 7.00-7.03 7.00 *SPT-8 CR=16% RQD=NIL
			3.0 cm Pentn. Refusal	R8 7.75-7.75 7.75 *SPT-9 CR=22% RQD=NIL
			3.0 cm Pentn. Refusal	R9 8.50-8.50 8.50 CR=26% RQD=NIL
			3.0 cm Pentn. Refusal	R10 9.25-9.25 9.25 CR=37% RQD=NIL
			3.0 cm Pentn. Refusal	R11 10.00-10.00 10.00 CR=42% RQD=30%
			3.0 cm Pentn. Refusal	R12 10.75-10.75 10.75 CR=23% RQD=NIL
			3.0 cm Pentn. Refusal	R13 11.50-11.50 11.50 CR=27% RQD=NIL
			3.0 cm Pentn. Refusal	R14 12.25-12.25 12.25 CR=25% RQD=NIL
			3.0 cm Pentn. Refusal	R15 13.00-13.00 13.00 CR=32% RQD=NIL
13.00m			3.0 cm Pentn. Refusal	R16

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017			Sheet No:		
BORE LOG DATA SHEET					BORE HOLE NO.95			Co-ordinates E= 345 N= 1908			
Field Test		Nos	Samples		Nos	Commencement Date : 25/06/17					
Penetrometer (SPT)		9	Undisturbed (UDS)		0	Completion Date : 26/06/17					
Cone (Pc)			Penetrometer (SPT)		9	Bore Hole Diameter : 150 mm. / N.X					
			Disturbed (DS)		8	Level Of Ground : 282.814 m.					
Vane (V)			Water Sample (WS)		0	Water Struck At : Standing Water Level : 3.1 m.					
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES		
						EACH DIVN. = 15cm			Ref. No	Depth (m)	
13.00m 20.00m						13.00 ↓ 13.75 ↓ 14.50 ↓ 15.25 ↓ 16.00 ↓ 16.75 ↓ 17.50 ↓ 18.25 ↓ 19.00 ↓ 20.00	R17	CR=28% RQD=NIL			
							R18	CR=25% RQD=NIL			
							R19	CR=23% RQD=NIL			
							R20	CR=26% RQD=NIL			
							R21	CR=24% RQD=NIL			
							R22	CR=22% RQD=NIL			
							R23	CR=25% RQD=NIL			
							R24	CR=27% RQD=NIL			
							R25	CR=31% RQD=NIL			
							N.B. - '*' means sample could not be recovered.				

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:		
BORE LOG DATA SHEET					BORE HOLE NO.96			Co-ordinates E= 251.000 N= 1952.000			
Field Test		Nos	Samples		Nos	Commencement Date : 30/06/17					
Penetrometer (SPT)		23	Undisturbed (UDS)		0	Completion Date : 01/07/17					
Cone (Pc)			Penetrometer (SPT)		23	Bore Hole Diameter : 150 mm. / N.X					
			Disturbed (DS)		22	Level Of Ground : 279.203 m.					
Vane (V)			Water Sample (WS)		0	Water Struck At : Standing Water Level : 3.2 m.					
DESCRIPTION					SYMBOL	N-VALUE EACH DIVN. = 15cm			SAMPLES Ref. No Depth (m)		
0.00m											
Very dense, yellowish grey, silty sand with decomposed rock fragments. (SM)					32	68	10	>100 cm Pentn.	DS-1	0.50	
								Refusal	SPT-1	1.00-1.25	
1.80m					100			4.0 cm Pentn.	*SPT-2	1.80-1.84	1.80
								Refusal	R1 DS-2	CR=NIL RQD=NIL	
					100			4.0 cm Pentn.	*SPT-3	2.50-2.54	2.50
								Refusal	R2 DS-3	CR=NIL RQD=NIL	
					100			4.0 cm Pentn.	*SPT-4	3.25-3.29	3.25
								Refusal	R3 DS-4	CR=NIL RQD=NIL	
					100			4.0 cm Pentn.	*SPT-5	4.00-4.03	4.00
								Refusal	R4 DS-5	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-6	4.75-4.79	4.75
								Refusal	R5 DS-6	CR=NIL RQD=NIL	
					100			4.0 cm Pentn.	*SPT-7	5.50-5.53	5.50
								Refusal	R6 DS-7	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-8	6.25-6.29	6.25
								Refusal	R7 DS-8	CR=NIL RQD=NIL	
					100			4.0 cm Pentn.	*SPT-9	7.00-7.04	7.00
								Refusal	R8 DS-9	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-10	7.75-7.78	7.75
								Refusal	R9 DS-10	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-11	8.50-8.53	8.50
								Refusal	R10 DS-11	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-12	9.25-9.28	9.25
								Refusal	R11 DS-12	CR=NIL RQD=NIL	
					100			4.0 cm Pentn.	*SPT-13	10.00-10.04	10.00
								Refusal	R12 DS-13	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-14	10.75-10.78	10.75
								Refusal	R13 DS-14	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-15	11.50-11.53	11.50
								Refusal	R14 DS-15	CR=NIL RQD=NIL	
					100			3.0 cm Pentn.	*SPT-16	12.25-12.28	12.25
								Refusal	R15 DS-16	CR=NIL RQD=NIL	
13.00m											13.00

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.96 Co-ordinates E= 251.000 N= 1952.000

Field Test	Nos	Samples	Nos	Commencement Date : 30/06/17
Penetrometer (SPT)	23	Undisturbed (UDS)	0	Completion Date : 01/07/17
Cone (Pc)		Penetrometer (SPT)	23	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	22	Level Of Ground : 279.203 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 3.2 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)
Completely weathered, yellowish grey, medium grained, decomposed & disintegrated sandstone.	13.00m	100	Refusal		*SPT-17	13.00-13.04 13.00
			4.0 cm Pentn.		R16	CR=NIL
			Refusal		DS-17	RQD=NIL
		100			*SPT-18	13.75-13.78 13.75
			3.0 cm Pentn.		R17	CR=NIL
			Refusal		DS-18	RQD=NIL
		100			*SPT-19	14.50-14.53 14.50
			3.0 cm Pentn.		R18	CR=NIL
			Refusal		DS-19	RQD=NIL
		100			*SPT-20	15.25-15.28 15.25
Highly weathered, yellowish grey, medium to fine grained sandstone.			3.0 cm Pentn.		R19	CR=NIL
			Refusal		DS-20	RQD=NIL
		100			*SPT-21	16.00-16.04 16.00
			4.0 cm Pentn.		R20	CR=NIL
			Refusal		DS-21	RQD=NIL
		100			*SPT-22	16.75-16.78 16.75
			3.0 cm Pentn.		R21	CR=NIL
			Refusal		DS-22	RQD=NIL
		100			*SPT-23	17.50-17.53 17.50
			3.0 cm Pentn.		R22	CR=NIL
			NX rotary drilling from 1.80m to 20.00m			
	18.25m				R23	CR=24% RQD=NIL
						19.00
					R24	CR=27% RQD=NIL
						20.00
	20.00m					

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).

CETEST

Job No : 3973M

Created by : S.NATH

Created on : 05/07/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO.97

Co-ordinates

E= 103.366

N= 1818.451

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

3

Undisturbed (UDS)

2

Cone (Pc)

Penetrometer (SPT)

3

Vane (V)

Disturbed (DS)

1

Water Sample (WS)

0

Commencement Date : 26/06/17

Completion Date : 27/06/17

Bore Hole Diameter : 150 mm. / N.X

Level Of Ground : 274.667 m.

Water Struck At :

Standing Water Level : 2.3 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

0.00m

Hard, yellowish brown, clayey silt with sand mixture. (CL)

DS-1

0.50

2.50m

Very dense, yellowish grey, silty sand with decomposed rock fragments.(SM)

UDS-1

1.00-1.35

4.00m

Highly to moderately weathered, yellowish grey to light grey, medium to fine grained sandstone.

SPT-1

2.00-2.45

4.00m

*UDS-2

3.00-3.10

4.00m

SPT-2

3.50-3.70

4.00m

*SPT-3

4.00-4.04

4.00m

R1

CR=24%
RQD=NIL

4.00m

R2

CR=26%
RQD=NIL

4.00m

R3

CR=31%
RQD=NIL

4.00m

R4

CR=34%
RQD=14%

4.00m

R5

CR=37%
RQD=20%

4.00m

R6

CR=29%
RQD=NIL

4.00m

R7

CR=25%
RQD=NIL

4.00m

R8

CR=32%
RQD=NIL

4.00m

R9

CR=38%
RQD=20%

4.00m

R10

CR=33%
RQD=20%

4.00m

R11

CR=29%
RQD=NIL

4.00m

R12

CR=32%
RQD=20%

41

>100

5.0 cm Pentn.

Refusal

4.0 cm Pentn.

NX rotary drilling from 4.00m to 20.00m

4.75

5.50

6.25

7.00

7.75

8.50

9.25

10.00

10.75

11.50

12.25

13.00

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 05/07/2017			Sheet No:
BORE LOG DATA SHEET				BORE HOLE NO.97			Co-ordinates $E = 103.366$ $N = 1818.451$		
Field Test		Nos	Samples		Nos	Commencement Date : 26/06/17			
Penetrometer (SPT)		3	Undisturbed (UDS)		2	Completion Date : 27/06/17			
Cone (Pc)			Penetrometer (SPT)		3	Bore Hole Diameter : 150 mm. / N.X			
Vane (V)			Disturbed (DS)		1	Level Of Ground : 274.667 m.			
			Water Sample (WS)		0	Water Struck At : Standing Water Level : 2.3 m.			
DESCRIPTION				SYMBOL	N-VALUE			SAMPLES	
					EACH DIVN. = 15cm			Ref. No	Depth (m)
13.00m Highly to moderately weathered, yellowish grey to light grey, medium to fine grained sandstone.								R13	13.00 CR=34% RQD=NIL
								R14	13.75 CR=36% RQD=NIL
								R15	14.50 CR=37% RQD=NIL
								R16	15.25 CR=46% RQD=40%
								R17	16.00 CR=37% RQD=18%
								R18	16.75 CR=40% RQD=32%
								R19	17.50 CR=53% RQD=45%
								R20	18.25 CR=58% RQD=45%
								R21	19.00 CR=56% RQD=43%
17.50m Moderately weathered, yellowish grey to light grey, medium to fine grained sandstone.									20.00
20.00m									
N.B. - '*' means sample could not be recovered.									

BH-98/Sheet-1

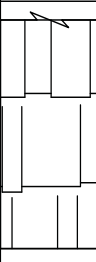
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.98 Co-ordinates E= -39.000 N= 2221.000

Field Test	Nos	Samples	Nos	Commencement Date : 05/07/17
Penetrometer (SPT)	3	Undisturbed (UDS)	0	Completion Date : 06/07/17
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 279.621 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly weathered, brownish grey, fine grained, moderately fractured sandstone.							R14	CR=26% RQD=NIL	13.00m
							R15	CR=27% RQD=12%	13.50m
							R16	CR=32% RQD=26%	14.25m
									15.00m

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 17/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.99 Co-ordinates E= 448 N= 2547

Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	4	Undisturbed (UDS)	2	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 287.13 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 7.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m							DS-1	0.50
							*UDS-1	1.00-1.45
							SPT-1	2.00-2.45
Soft to medium, yellowish brown, silty clay / clayey silt with sand mixture. (CL)		2	2	2	4		UDS-2	3.00-3.45
							SPT-2	4.00-4.45
4.50m							SPT-3	5.00-5.20
Very dense, yellowish grey, silty sand with decomposed rock fragment(SM)		35	65	5.0	cm	Pentr. Refusal	*SPT-4	5.50-5.54 5.50
5.50m		100		4.0	cm	Pentr. Refusal	R1	CR=23% RQD=NIL
Highly to moderately weathered, yellowish brown to deep grey, medium to fine grained, fractured sandstone.		NX		4.00m	to 20.00m		R2	CR=26% RQD=NIL
							R3	CR=24% RQD=NIL
7.75m							R4	CR=28% RQD=NIL
							R5	CR=30% RQD=14%
							R6	CR=33% RQD=NIL
							R7	CR=32% RQD=NIL
Highly to moderately weathered, yellowish brown to deep grey, medium to fine grained, fractured sandstone.							R8	CR=35% RQD=16%
							R9	CR=39% RQD=NIL
							R10	CR=42% RQD=18%
							R11	CR=38% RQD=NIL
							R12	CR=43% RQD=NIL
							R13	CR=45% RQD=NIL
15.00m								15.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW).										CETEST		
Job No : 3973M			Created by : S.NATH			Created on : 26/07/2017			Sheet No:			
BORE LOG DATA SHEET					BORE HOLE NO.100			Co-ordinates $E=691.000$ $N=3016.000$				
Field Test		Nos	Samples		Nos	Commencement Date : 10/07/17						
Penetrometer (SPT)		2	Undisturbed (UDS)		0	Completion Date : 11/07/17						
Cone (Pc)			Penetrometer (SPT)		2	Bore Hole Diameter : 150 mm. / N.X						
			Disturbed (DS)		1	Level Of Ground : 297.789 m.						
Vane (V)			Water Sample (WS)		0	Water Struck At : Standing Water Level : 8.15 m.						
DESCRIPTION					SYMBOL	N-VALUE			SAMPLES			
						EACH DIVN. = 15cm			Ref. No	Depth (m)		
0.00m Brownish grey, silty sand. (SM)									DS-1	0.50		
1.00m Very dense, brownish grey, silty sand with decomposed rock fragment. (SM)						≥ 100 39 61 12 cm Pentn.			SPT-1	1.00-1.27		
2.00m						100 4.0 cm Pentn. NX rotary drilling from 2.00m to 15.00m Refusal			*SPT-2	2.00-2.04	2.00	
Highly to moderately weathered, yellowish brown, coarse to medium grained, moderately fractured sandstone.									R1	CR=24% RQD=NIL	2.75	
									R2	CR=22% RQD=NIL	3.50	
									R3	CR=23% RQD=NIL	4.25	
									R4	CR=26% RQD=NIL	5.00	
									R5	CR=28% RQD=NIL	5.75	
									R6	CR=25% RQD=NIL	6.50	
									R7	CR=27% RQD=NIL	7.25	
									R8	CR=30% RQD=NIL	8.00	
									R9	CR=32% RQD=NIL	8.75	
									R10	CR=35% RQD=NIL	9.50	
									R11	CR=38% RQD=NIL	10.25	
									R12	CR=34% RQD=NIL	11.00	
									R13	CR=32% RQD=NIL	11.75	
									R14	CR=36% RQD=NIL	12.50	
13.00m								R15	CR=39% RQD=NIL	13.00		

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.100 Co-ordinates E= 691.000 N= 3016.000

Field Test	Nos	Samples	Nos	Commencement Date : 10/07/17
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 11/07/17
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 297.789 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 8.15 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)

Highly to moderately weathered, yellowish brown, coarse to medium grained, moderately fractured sandstone.	13.00m																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST

Job No : 3973MCreated by : S.NATHCreated on : 15/07/2017Sheet No:

BORE LOG DATA SHEETBORE HOLE NO.101Co-ordinatesE= 87N= 3400

Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	3	Completion Date : 09/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 288.175 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.1 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m						DS-1	0.50
		4	2	4	6	SPT-1	1.00-1.45
						*UDS-1	2.00-2.45
Medium, brownish grey, silty clay / clayey silt with sand mixture. (CL)		2	3	3	6	SPT-2	3.00-3.45
						UDS-2	4.00-4.45
		4	5	4	9	SPT-3	5.00-5.45
						*UDS-3	6.00-6.12
6.00m							
Hard, brownish grey, silty clay with decomposed rock fragment. (CL)					>100		
7.00m		50				*SPT-4	7.00-7.04
		4.0	cm	Pentr.		R1	CR=14% RQD=NIL
		50			>100	*SPT-5	7.75-7.77
Completely weathered, brownish grey, fine grained fractured sandstone.		50	2.0	cm	Pentr.	R2	CR=16% RQD=NIL
		50			>100	*SPT-6	8.50-8.53
		50	3.0	cm	Pentr.	R3	CR=17% RQD=NIL
		50			>100	*SPT-7	9.25-9.28
9.25m		50	3.0	cm	Pentr.	R4	CR=21% RQD=NIL
		NX	rotary drilling from 6.75m to 25.00m				10.00
						R5	CR=22% RQD=NIL
							10.75
						R6	CR=24% RQD=NIL
							11.50
						R7	CR=26% RQD=NIL
							12.25
						R8	CR=24% RQD=NIL
							13.00
13.00m							

Receipt No : 292418/2024/PS-HQ-HRM

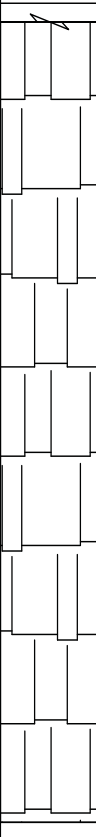
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 15/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.101 Co-ordinates E= 87
N= 3400

Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17
Penetrometer (SPT)	7	Undisturbed (UDS)	3	Completion Date : 09/07/17
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	1	Level Of Ground : 288.175 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.1 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

Highly to moderately weathered, reddish brown, fine grained, moderately fractured sandstone.								13.00
		R9	CR=32%	RQD=16%				13.75
		R10	CR=31%	RQD=NIL				14.50
		R11	CR=36%	RQD=NIL				15.25
		R12	CR=32%	RQD=NIL				16.00
		R13	CR=39%	RQD=NIL				16.75
		R14	CR=40%	RQD=12%				17.50
		R15	CR=44%	RQD=NIL				18.25
		R16	CR=45%	RQD=17%				19.00
		R17	CR=42%	RQD=NIL				20.00

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST									
Job No : 3973M			Created by : S.NATH			Created on : 17/07/2017			Sheet No:
BORE LOG DATA SHEET					BORE HOLE NO.102			Co-ordinates E= -114 N= 3132	
Field Test	Nos	Samples	Nos	Commencement Date : 08/07/17					
Penetrometer (SPT)	9	Undisturbed (UDS)	1	Completion Date : 09/07/17					
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm. / N.X					
Vane (V)		Disturbed (DS)	7	Level Of Ground : 287.496 m.					
		Water Sample (WS)	0	Water Struck At :					
				Standing Water Level : 9.6 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									
Filled up soil consists of yellowish brown, sandy silt with boulder, bricks etc.							DS-1	0.50	
1.80m							SPT-1	1.00-1.45	
Medium dense, yellowish brown, sandy silt / silty sand. (SM)							SPT-2	2.00-2.45	
2.80m							*UDS-1	3.00-3.12	
Very dense, yellowish grey, silty sand with decomposed rock fragment. (SM)							SPT-3	4.00-4.27	
4.70m							*SPT-4	4.70-4.74 4.70	
							R1	CR=NIL	
							DS-2	RQD=NIL	
							*SPT-5	5.50-5.54 5.50	
							R2	CR=NIL	
							DS-3	RQD=NIL	
							*SPT-6	6.25-6.28 6.25	
							R3	CR=NIL	
							DS-4	RQD=NIL	
							*SPT-7	7.00-7.04 7.00	
							R4	CR=NIL	
							DS-5	RQD=NIL	
							*SPT-8	7.75-7.78 7.75	
							R5	CR=NIL	
							DS-6	RQD=NIL	
							*SPT-9	8.50-8.53 8.50	
							R6	CR=22% RQD=NIL	
								9.25	
							R7	CR=24% RQD=NIL	
								10.00	
							R8	CR=23% RQD=NIL	
								10.75	
							R9	CR=26% RQD=NIL	
								11.50	
							R10	CR=24% RQD=NIL	
								12.25	
							R11	CR=27% RQD=NIL	
								13.00	
							R12	CR=26% RQD=NIL	
								13.75	
							R13	CR=25% RQD=NIL	
								14.50	
							R14	CR=31% RQD=NIL	
								15.00	
15.00m									
N.B. - '*' means sample could not be recovered.									

BH-102/Sheet-1

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 17/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.103 Co-ordinates E= 227 N= 3017

Field Test	Nos	Samples	Nos	Commencement Date : 07/07/17
Penetrometer (SPT)	18	Undisturbed (UDS)	0	Completion Date : 08/07/17
Cone (Pc)		Penetrometer (SPT)	18	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	2	Level Of Ground : 289.336 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 10.7 m.

DESCRIPTION	SYMBOL	N-VALUE			SAMPLES	
		EACH DIVN. = 15cm			Ref. No	Depth (m)
0.00m						
Hard, brownish grey, silty clay / clayey silt. (CL)		8	17	20	DS-1	0.50
					SPT-1	1.00-1.45
					DS-2	2.00
3.00m						
Very dense, brownish grey, silty sand with decomposed rock. (SM)		39	50	8.0	SPT-2	3.00-3.23
3.50m		100			*SPT-3	3.50-3.54 3.50
Completely weathered, brownish grey, coarse grained sandstone.				4.0 cm Pentn. Refusal	R1	CR=12% RQD=NIL
		100			*SPT-4	4.25-4.28 4.25
				3.0 cm Pentn. Refusal	R2	CR=10% RQD=NIL
		100			*SPT-5	5.00-5.04 5.00
				4.0 cm Pentn. Refusal	R3	CR=13% RQD=NIL
		100			*SPT-6	5.75-5.78 5.75
				3.0 cm Pentn. Refusal	R4	CR=NIL RQD=NIL
		100			*SPT-7	6.50-6.52 6.50
				2.0 cm Pentn. Refusal	R5	CR=NIL RQD=NIL
		100			*SPT-8	7.25-7.29 7.25
				4.0 cm Pentn. Refusal	R6	CR=NIL RQD=NIL
		100			*SPT-9	8.00-8.03 8.00
				3.0 cm Pentn. Refusal	R7	CR=NIL RQD=NIL
		100			*SPT-10	8.75-8.77 8.75
				2.0 cm Pentn. Refusal	R8	CR=NIL RQD=NIL
Completely weathered, brownish grey, coarse grained fully decomposed & disintegrated sandstone.		100			*SPT-11	9.50-9.53 9.50
				3.0 cm Pentn. Refusal	R9	CR=NIL RQD=NIL
		100			*SPT-12	10.25-10.27 10.25
				2.0 cm Pentn. Refusal	R10	CR=NIL RQD=NIL
		100			*SPT-13	11.00-11.04 11.00
				4.0 cm Pentn. Refusal	R11	CR=NIL RQD=NIL
		100			*SPT-14	11.75-11.77 11.75
				2.0 cm Pentn. Refusal	R12	CR=NIL RQD=NIL
		100			*SPT-15	12.50-12.53 12.50
				3.0 cm Pentn. Refusal	R13	CR=NIL RQD=NIL
N.B. - '*' means sample could not be recovered.		100			*SPT-16	13.25-13.28 13.25
				3.0 cm Pentn. Refusal	R14	CR=NIL RQD=NIL
		100			*SPT-17	14.00-14.04 14.00
				4.0 cm Pentn. Refusal	R15	CR=NIL RQD=NIL
		100			*SPT-18	15.00-15.03 15.00
15.03m						
		NX rotary drilling from 3.50m to 15.03m				

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). CETEST				
Job No : 3973M		Created by : S.NATH		Created on : 26/07/2017
Sheet No:				
BORE LOG DATA SHEET		BORE HOLE NO.104		Co-ordinates E= -42.000 N= 2609.000
Field Test	Nos	Samples	Nos	Commencement Date : 06/07/17
Penetrometer (SPT)	9	Undisturbed (UDS)	1	Completion Date : 07/07/17
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	4	Level Of Ground : 285.552 m.
		Water Sample (WS)	1	Water Struck At : Standing Water Level : 10.05 m.
DESCRIPTION		SYMBOL	N-VALUE EACH DIVN. = 15cm	SAMPLES Ref. No Depth (m)
0.00m				
Very stiff, brownish grey to reddish brown, silty clay / clayey silt. (CL)			18	DS-1 0.50
			6 8 10	SPT-1 1.00-1.45
				UDS-1 2.00-2.45
3.00m			>100	
Very dense, greyish brown, silty sand with decomposed rock fragment. (SM)			31 69	SPT-2 3.00-3.24
			9.0 cm Pentn.	
			Refusal	
4.00m			100	*SPT-3 4.00-4.04 4.00
			4.0 cm Pentn.	R1 CR=16% RQD=NIL
			Refusal	
			100	*SPT-4 4.75-4.78 4.75
			3.0 cm Pentn.	R2 CR=18% RQD=NIL
			Refusal	
			100	*SPT-5 5.50-5.52 5.50
			2.0 cm Pentn.	R3 CR=14% RQD=NIL
			Refusal	
			100	*SPT-6 6.25-6.29 6.25
			4.0 cm Pentn.	R4 CR=NIL RQD=NIL
			Refusal	
			100	*SPT-7 7.00-7.03 7.00
			3.0 cm Pentn.	R5 CR=NIL RQD=NIL
			Refusal	
			100	DS-3 7.75-7.79 7.75
			4.0 cm Pentn.	*SPT-8 7.75-7.79 7.75
			Refusal	
			100	R6 CR=NIL RQD=NIL
			2.0 cm Pentn.	
			Refusal	
			100	*SPT-9 8.50-8.52 8.50
			4.0 cm Pentn.	R7 CR=21% RQD=NIL
			Refusal	
			100	R8 CR=23% RQD=NIL
			2.0 cm Pentn.	
			Refusal	
			100	WS-1 10.05 10.00
			4.0 cm Pentn.	R9 CR=21% RQD=NIL
			Refusal	
			100	R10 CR=22% RQD=NIL
			4.0 cm Pentn.	
			Refusal	
			100	R11 CR=24% RQD=NIL
			4.0 cm Pentn.	
			Refusal	
			100	R12 CR=28% RQD=13%
			4.0 cm Pentn.	
			Refusal	
			100	
12.25m				
Highly to moderately weathered, light blackish grey, fine grained, moderately fractured interbedded sandstone - shale.				
13.00m				

BH-104/Sheet-1

Receipt No : 292418/2024/PS-HQ-HRM

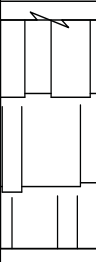
Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage-III (2 x 660MW). **CETEST**

Job No : 3973M Created by : S.NATH Created on : 26/07/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO.104 Co-ordinates E= -42.000 N= 2609.000

Field Test	Nos	Samples	Nos	Commencement Date : 06/07/17
Penetrometer (SPT)	9	Undisturbed (UDS)	1	Completion Date : 07/07/17
Cone (Pc)		Penetrometer (SPT)	9	Bore Hole Diameter : 150 mm. / N.X
Vane (V)		Disturbed (DS)	4	Level Of Ground : 285.552 m.
		Water Sample (WS)	1	Water Struck At :
				Standing Water Level : 10.05 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)

13.00m Highly to moderately weathered, light blackish grey, fine grained, moderately fractured interbedded sandstone - shale. 15.00m							R13	CR=39% RQD=31% 13.00
							R14	CR=40% RQD=28% 13.75
							R15	CR=44% RQD=40% 14.50
								15.00

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage - III (2 x 660MW). **CETEST**

Job No : 3973M

Created by : S.NATH

Created on : 09/08/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. PMT 1

Co-ordinates E= 452.000
N= 1240.000

Field Test	Nos	Samples	Nos	Commencement Date : 04/08/17			
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Completion Date : 05/08/17			
Cone (Pc)		Penetrometer (SPT)	6	Bore Hole Diameter : 150 mm. / N.X			
Vane (V)		Disturbed (DS)	4	Level Of Ground : 276.684 m.			
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.75 m.			
DESCRIPTION			SYMBOL	N-VALUE		SAMPLES	
				EACH DIVN. = 15cm		Ref. No	Depth (m)
0.00m							
Filled up by coal dust & iron pcs etc.						DS-1	0.50
1.00m					15	SPT-1	1.00-1.45
Medium dense, greyish brown to light yellowish brown, silty sand with kankars. (SM)						DS-2	2.00
2.50m							
Very dense, light greyish brown, silty sand with kankars. Obs. decomposed rock fragment. (SM)					>100	SPT-2	3.00-3.35
					5.0 cm Pentn.	DS-3	4.00
					>100	SPT-3	4.50-4.62
5.20m					Refusal	*SPT-4	5.20-5.24
Completely weathered, greyish brown, medium to fine grained rock.					4.0 cm Pentn.	R1	CR=NIL
6.00m					Refusal	DS-4	RQD=NIL
Completely weathered, brownish grey, medium to fine grained, highly fractured sandstone.					4.0 cm Pentn.	*SPT-5	6.00-6.04
6.75m					Refusal	R2	CR=17%
					3.0 cm Pentn.	*SPT-6	RQD=NIL
					NX rotary drilling from 5.20m to 12.50m	R3	CR=33%
						R4	RQD=NIL
						R5	CR=37%
						R6	RQD=NIL
						R7	CR=40%
						R8	RQD=NIL
						R9	CR=43%
						R10	RQD=NIL
							CR=45%
							RQD=NIL
							CR=48%
							RQD=NIL
							CR=44%
							RQD=NIL
							CR=50%
							RQD=15%
12.50m							12.50
N.B. - '*' means sample could not be recovered.							

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

BH-1/Sheet-1

BH-2/Sheet-1

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage - III (2 x 660MW). **CETEST**

Job No : 3973M

Created by : S.NATH

Created on : 09/08/2017

Sheet No:

BORE LOG DATA SHEET**BORE HOLE NO. PMT 3**Co-ordinates E= 485.000
N= 1330.000

Field Test	Nos	Samples	Nos	Commencement Date : 01/08/17													
				Completion Date : 03/08/17													
Penetrometer (SPT)	6	Undisturbed (UDS)	0	Bore Hole Diameter : 150 mm. / N.X													
Cone (Pc)		Penetrometer (SPT)	6	Level Of Ground : 276.422 m.													
		Disturbed (DS)	4	Water Struck At :													
Vane (V)		Water Sample (WS)	0	Standing Water Level : 2.30 m.													
DESCRIPTION			SYMBOL	N-VALUE						SAMPLES							
				EACH DIVN. = 15cm						Ref. No	Depth (m)						
0.00m Filled up soil consists of road materials & coal dust etc.																	
0.50m											DS-1	0.50					
Medium dense / very dense, light brownish yellow, sandy silt with decomposed fragment. (SM)				9	10	18						SPT-1	1.00-1.45				
														DS-2	2.00		
														SPT-2	2.50-2.65		
2.80m				100	15	cm	Pentn.					*SPT-3	2.80-2.85	2.80			
Completely weathered, light greyish yellow, medium grained sandstone.												R1	CR=NIL RQD=NIL				
												DS-3	CR=NIL				
												*SPT-4	3.50-3.54	3.50			
												R2	CR=NIL RQD=NIL				
4.25m				100		4.0	cm	Pentn.				DS-4	CR=NIL RQD=NIL				
Highly weathered, light reddish yellow to reddish brown, medium to fine grained, highly fractured interbedded sandstone - shale.												*SPT-5	4.25-4.28	4.25			
													R3	CR=20% RQD=NIL			
													*SPT-6	5.00-5.02	5.00		
													R4	CR=23% RQD=NIL			
																5.75	
													R5	CR=24% RQD=NIL			
																6.50	
													R6	CR=25% RQD=NIL			
																7.25	
													R7	CR=36% RQD=NIL			
7.25m													8.00				
Moderately weathered, light greyish yellow, medium grained, highly fractured interbedded sandstone - shale.												R8	CR=45% RQD=NIL				
															8.75		
													R9	CR=50% RQD=NIL			
															9.50		
													R10	CR=42% RQD=NIL			
															10.25		
													R11	CR=48% RQD=NIL			
															11.00		
12.50m													11.75				
N.B. - '*' means sample could not be recovered.											R12	CR=43% RQD=NIL					
													12.50				
											R13	CR=47% RQD=NIL					
													12.50				

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

BH-3/Sheet-1

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage - III (2 x 660MW).					CETEST	
Job No : 3973M		Created by : S.NATH		Created on : 11/08/2017		Sheet No:
BORE LOG DATA SHEET			BORE HOLE NO. PMT 4		Co-ordinates E= 612.000 N= 1286.000	
Field Test	Nos	Samples	Nos	Commencement Date : 29/07/17		
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 01/08/17		
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X		
Vane (V)		Disturbed (DS)	6	Level Of Ground : 276.221 m.		
		Water Sample (WS)	0	Water Struck At :		
				Standing Water Level : 1.2 m.		
DESCRIPTION		SYMBOL	N-VALUE		SAMPLES	
			EACH DIVN. = 15cm		Ref. No	Depth (m)
0.00m Filled up soil consists of coal, brickdust, sand etc.						
0.60m					DS-1	0.50
Medium dense, brownish yellow, silty sand with traces of kankars. (SM)		8 10 13	23		SPT-1	1.00-1.45
2.30m					DS-2	2.00
		13 14 16	30		SPT-2	2.50-2.95
			>100		DS-3	3.00
Dense to very dense, silty sand with traces of decomposed rock fragment.(SM)		34 50	7.5 cm Pentn.		SPT-3	3.20-3.50
			>100		DS-4	4.00
5.00m		41 59	3.0 cm Pentn.		SPT-4	4.50-4.68
		100	Refusal		*SPT-5	5.00-5.03 5.00
Completely weathered, light greyish yellow, medium grained interbedded sandstone - shale.			3.0 cm Pentn.		R1	CR=NIL RQD=NIL
		100	Refusal		DS-5	
6.50m			4.0 cm Pentn.		*SPT-6	5.75-5.79 5.75
		100	Refusal		R2	CR=NIL RQD=NIL
Highly weathered, light brownish yellow, medium to fine grained, highly fractured interbedded sandstone - shale.			3.0 cm Pentn.		*SPT-7	6.50-6.53 6.50
			NX rotary drilling from 5.00m to 12.50m		R3	CR=22% RQD=NIL
8.00m					R4	CR=23% RQD=NIL
					R5	CR=28% RQD=NIL
					R6	CR=42% RQD=NIL
					R7	CR=40% RQD=NIL
					R8	CR=36% RQD=NIL
					R9	CR=35% RQD=NIL
					R10	CR=43% RQD=NIL
12.50m N.B. - '*' means sample could not be recovered.						12.50

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage - III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 11/08/2017			Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO. PMT 5				Co-ordinates E= 539.000 N= 1092.000			
Field Test	Nos	Samples	Nos	Commencement Date : 30/07/17							
Penetrometer (SPT)	11	Undisturbed (UDS)	0	Completion Date : 31/07/17							
Cone (Pc)		Penetrometer (SPT)	11	Bore Hole Diameter : 150 mm. / N.X							
Vane (V)		Disturbed (DS)	8	Level Of Ground : 275.62 m.							
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 2.05 m.							
DESCRIPTION			SYMBOL	N-VALUE EACH DIVN. = 15cm				SAMPLES Ref. No Depth (m)			
0.00m											
Fill up soil consists of filled up by coal, brick dust & iron pcs etc.								DS-1	0.50		
1.00m				4	4	5	9	SPT-1	1.00-1.45		
Stiff to very stiff, greyish brown, clayey silt with traces of kankars & sand mixture. (CL)								DS-2	2.00		
3.00m				6	7	9	16	SPT-2	2.50-2.95		
								DS-3	3.00		
				8	9	11	20	SPT-3	3.25-3.70		
								DS-4	4.00		
Medium dense / very dense, yellowish brown, silty sand with traces of kankars. Obs. mica. (SM)				7	12	15	27	SPT-4	4.50-4.95		
								DS-5	5.30		
				23	50		>100	SPT-5	5.50-5.79		
				14			cm Pentn.	DS-6	6.00		
								SPT-6	6.50-6.60		
7.00m				100			>100				
							10 cm Pentn.	*SPT-7	7.00-7.05 7.00		
							Refusal	R1	CR=NIL RQD=NIL		
								DS-7			
Completely weathered, greyish yellow, medium grained sandstone.				100			5.0 cm Pentn.	*SPT-8	7.75-7.79 7.75		
							Refusal	R2	CR=NIL RQD=NIL		
								DS-8			
				100			4.0 cm Pentn.	*SPT-9	8.50-8.54 8.50		
							Refusal	R3	CR=NIL RQD=NIL		
9.25m								*SPT-10	9.25-9.28 9.25		
							3.0 cm Pentn.	R4	CR=18% RQD=NIL		
							Refusal	*SPT-11	10.00-10.03 10.00		
				100			3.0 cm Pentn.	R5	CR=23% RQD=NIL		
Completely to highly weathered, light brownish yellow, medium to fine grained, highly fractured sandstone.							NX rotary drilling from 7.00m to 12.50m	R6	CR=25% RQD=NIL		
									10.75		
								R7	CR=38% RQD=NIL		
									11.50		
12.50m									12.50		
N.B. - '*' means sample could not be recovered.											

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage - III (2 x 660MW).										CETEST	
Job No : 3973M			Created by : S.NATH			Created on : 11/08/2017			Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO. PMT 6				Co-ordinates E= 708.000 N= 1214.000			
Field Test	Nos	Samples	Nos	Commencement Date : 01/08/17							
Penetrometer (SPT)	7	Undisturbed (UDS)	0	Completion Date : 02/08/17							
Cone (Pc)		Penetrometer (SPT)	7	Bore Hole Diameter : 150 mm. / N.X							
Vane (V)		Disturbed (DS)	7	Level Of Ground : 276.313 m.							
		Water Sample (WS)	0	Water Struck At :							
				Standing Water Level : 0.9 m.							
DESCRIPTION			SYMBOL	N-VALUE				SAMPLES			
				EACH DIVN. = 15cm				Ref. No	Depth (m)		
0.00m Filled up soil consists of road materials.											
0.50m								DS-1	0.50		
Very stiff, greyish yellow, clayey silt with sand mixture & traces of kankars. (CL)			7	8	9	17		SPT-1	1.00-1.45		
2.20m								DS-2	2.00		
			9	14	18	32		SPT-2	2.20-2.65		
								DS-3	2.80		
			10	16	18	34		SPT-3	3.00-3.45		
Dense to very dense, yellowish brown, silty sand with decomposed rock dust. (SM)								DS-4	4.00		
			18	25	57	>100		SPT-4	4.50-4.85		
						5.0 cm Pentn.		DS-5	5.30		
			100			>100		SPT-5	5.50-5.60		
						10 cm Pentn.					
6.10m			100			Refusal		*SPT-6	6.10-6.15 6.10		
						5.0 cm Pentn.		R1	CR=NIL RQD=NIL		
			100			Refusal		DS-6			
						4.0 cm Pentn.		*SPT-7	7.00-7.04 7.00		
Completely to highly weathered, light greyish yellow, medium grained, highly fractured interbedded sandstone - shale.						NX rotary drilling from 6.10m to 12.50m		R2	CR=21% RQD=NIL		
								R3	CR=23% RQD=NIL		
								R4	CR=29% RQD=NIL		
								R5	CR=40% RQD=NIL		
9.25m								R6	CR=43% RQD=NIL		
								R7	CR=48% RQD=NIL		
								DS-7	11.50 11.50		
								R8	CR=50% RQD=NIL		
12.50m									12.50		
N.B. - '*' means sample could not be recovered.											

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage - III (2 x 660MW). **CETEST**

Job No : 3973M

Created by : S.NATH

Created on : 09/08/2017

Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. PMT 7

Co-ordinates E= 820.000
N= 1270.000

Field Test	Nos	Samples	Nos	Commencement Date : 28/07/17									
				Completion Date : 29/07/17									
Penetrometer (SPT)	8	Undisturbed (UDS)	0	Bore Hole Diameter : 150 mm. / N.X									
Cone (Pc)		Penetrometer (SPT)	8	Level Of Ground : 276.13 m.									
		Disturbed (DS)	6	Water Struck At :									
Vane (V)		Water Sample (WS)	0	Standing Water Level : 1.3 m.									
DESCRIPTION			SYMBOL	N-VALUE							SAMPLES		
				EACH DIVN. = 15cm							Ref. No	Depth (m)	
0.00m Filled up soil consists of brick dust, rock pcs etc.													
0.50m											DS-1	0.50	
Medium dense, brownish grey, silty sand with clay binder.			(SM)	9	10	10	20				SPT-1	1.00-1.45	
2.00m											DS-2	2.00	
				10	12	13	25				SPT-2	2.50-2.95	
											DS-3	3.20	
Medium dense to very dense, brownish grey, silty sand with clay binder.			(SM)	15	17	68	67				SPT-3	3.50-3.90	
							10 cm Pentn.				DS-4	4.00	
				19	29	52	>100				SPT-4	4.50-4.84	
5.25m							4.0 cm Pentn.						
				100			Refusal				*SPT-5	5.25-5.28 5.25	
							3.0 cm Pentn.				R1	CR=NIL RQD=NIL	
							Refusal				*SPT-6	6.00-6.03 6.00	
Completely weathered, light brownish yellow, medium grained, highly fractured interbedded sandstone - shale.				100			3.0 cm Pentn.				R2	CR=NIL RQD=NIL	
							Refusal				DS-5		
				100			2.0 cm Pentn.				*SPT-7	6.75-6.77 6.75	
							Refusal				R3	CR=13% RQD=NIL	
7.50m				100			2.0 cm Pentn.				DS-6	7.50-7.52 7.50	
											*SPT-8	CR=26% RQD=NIL	
							NX rotary drilling from 5.25m to 12.50m				R4		
											R5	CR=22% RQD=NIL	
											R6	CR=30% RQD=NIL	
Highly weathered, brownish yellow to light greyish yellow, medium to fine grained, highly fractured interbedded sandstone - shale.											R7	CR=26% RQD=NIL	
											R8	CR=32% RQD=16%	
											R9	CR=40% RQD=15%	
											R10	CR=39% RQD=11%	
12.50m												12.50	
N.B. - '*' means sample could not be recovered.													

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage - III (2 x 660MW). **CETEST**

Job No : 3973M

Created by : S.NATH

Created on : 09/08/2017

Sheet No:

BORE LOG DATA SHEET**BORE HOLE NO. PMT 8**Co-ordinates E= 891.000
N= 859.000

Field Test	Nos	Samples	Nos	Commencement Date : 03/08/17	
Penetrometer (SPT)	12	Undisturbed (UDS)	0	Completion Date : 04/08/17	
Cone (Pc)		Penetrometer (SPT)	12	Bore Hole Diameter : 150 mm. / N.X	
Vane (V)		Disturbed (DS)	10	Level Of Ground : 0.00 m.	
		Water Sample (WS)	0	Water Struck At :	
				Standing Water Level :	
DESCRIPTION		SYMBOL	N-VALUE		SAMPLES
			EACH DIVN. = 15cm		Ref. No
					Depth (m)
0.00m					
Filled up soil consists of coal dust, brick dust & iron pcs etc.					DS-1 0.50
0.80m					
			4 4 7	11	SPT-1 1.00-1.45
					DS-2 2.00
			5 6 8	14	SPT-2 2.50-2.95
Stiff to very stiff, greyish yellow, silty clay with calcareous. Obs. kankars & sand mixture.			7 8 10	18	DS-3 3.20
(CL)					SPT-3 3.40-3.85
					DS-4 4.00
			9 14 15	29	SPT-4 4.50-4.95
					DS-5 5.10
			12 15 17	32	SPT-5 5.50-5.95
6.00m					DS-6 6.00
			16 22 30	52	SPT-6 6.50-6.95
					DS-7 7.50
Hard, light brownish grey, silty clay. Obs. calcareous.			21 29 60	79	SPT-7 8.00-8.40
(CL)			10 cm Pentn.		DS-8 9.00
			100 14	≥100	SPT-8 9.50-9.64
			100	Refusal	*SPT-9 9.80-9.85 9.80
8.00m			5.0 cm Pentn.		R1 CR=NIL
			100	Refusal	DS-9 RQD=NIL
Completely weathered, yellowish grey, medium to fine grained sandstone.			4.0 cm Pentn.		*SPT-10 10.50-10.54 10.50
			100	Refusal	R2 CR=NIL
			3.0 cm Pentn.		DS-10 RQD=NIL
11.25m			100	Refusal	*SPT-11 11.25-11.28 11.25
Completely to highly weathered, light brownish yellow, medium grained, fully fractured sandstone.			3.0 cm Pentn.		R3 CR=14%
			100	Refusal	*SPT-12 12.00-12.03 12.00
			3.0 cm Pentn.		R4 CR=33%
12.50m			NX rotary drilling from 9.80m to 12.50m		RQD=NIL 12.50
N.B. - '*' means sample could not be recovered.					

BH-8/Sheet-1

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). CETEST									
Job No : 3973M			Created by : SKD			Created on : 30/08/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO. CHST1(M)		Co-ordinates E=490 N=1140		
Field Test	Nos	Samples	Nos	Commencement Date : 20/07/2017					
Penetrometer (SPT)	4	Undisturbed (UDS)	0	Completion Date : 21/07/2017					
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.					
Vane (V)		Disturbed (DS)	3	Level Of Ground : 276.01 m.					
		Water Sample (WS)	0	Water Struck At : Standing Water Level : 1.1 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									
Medium dense, brownish grey, silty sand. (SM)				11			DS-1	0.50	
			3	4	7		SPT-1	1.00-1.45	
				20			DS-2	2.00	
			4	8	12		SPT-2	3.00-3.45	
				>100			DS-3	4.00	
5.00m			39	61			SPT-3	5.00-5.25	
Very dense, brownish grey, silty sand (SM) with decomposed fragment.			10.0 cm Pentn.				*SPT-4	5.50-5.54 5.50	
5.50m			100	Refusal			R1	CR=22% RQD=Nil	
			4.0 cm Pentn.				R2	CR=21% RQD=Nil	
			NX rotary drilling from 5.50m to 15.50m				R3	CR=22% RQD=Nil	
Highly weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.							R4	CR=24% RQD=Nil	
							R5	CR=32% RQD=Nil	
8.50m							R6	CR=44% RQD=Nil	
							R7	CR=56% RQD=12%	
Highly to moderately weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.							R8	CR=60% RQD=28%	
							R9	CR=50% RQD=44%	
12.25m							R10	CR=56% RQD=27%	
							R11	CR=60% RQD=40%	
Moderately to slightly weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.							R12	CR=70% RQD=48%	
							R13	CR=74% RQD=35%	
15.50m								15.50	
N.B. - '*' means sample could not be recovered.									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST1(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 21/07/2017
Penetrometer (SPT)	4	Undisturbed (UDS)	0	Completion Date : 22/07/2017
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.05 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Medium dense, brownish grey, silty sand. (SM)					12			DS-1	0.50
		3	4	8				SPT-1	1.00-1.45
								DS-2	2.00
					21			SPT-2	3.00-3.45
Very dense, brownish grey, silty sand (SM) with decomposed fragment.								DS-3	4.00
5.00m									
5.30m									
Highly weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.								SPT-3	5.00-5.10
								*SPT-4	5.30-5.34
Highly to moderately weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.								R1	5.30
								R2	6.00
Highly to moderately weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.								R3	6.75
								R4	7.50
Moderately to slightly weathered, brownish grey, fine grained, moderately fractured interbedded sandstone - shale.								R5	8.25
								R6	9.00
N.B. - '*' means sample could not be recovered.								R7	9.75
								R8	10.50
								R9	11.25
								R10	12.00
								R11	12.75
								R12	13.50
								R13	14.25
								R14	15.00
									15.50

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. CHST1(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 22/07/2017
Penetrometer (SPT)	4	Undisturbed (UDS)	0	Completion Date : 23/07/2017
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Medium dense, brownish grey, silty sand. (SM)						11		DS-1	0.50
		3	4	7				SPT-1	1.00-1.45
								DS-2	2.00
						22		SPT-2	3.00-3.45
		6	8	14				DS-3	4.00
5.00m		36	64			>100		SPT-3	5.00-5.25
Very dense, brownish grey, silty sand with decomposed rock fragment. (SM)		10.0				cm Pentn.		*SPT-4	5.50-5.54 5.50
5.50m		100				Refusal			
		4.0				cm Pentn.		R1	CR=28% RQD=Nil
									7.00
								R2	CR=36% RQD=16%
									8.50
								R3	CR=44% RQD=19%
									10.00
								R4	CR=40% RQD=25%
									11.50
								R5	CR=49% RQD=30%
									13.00
13.00m								R6	CR=55% RQD=36%
									14.50
								R7	CR=58% RQD=40%
									15.50
15.50m									

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). CETEST									
Job No : 3973M			Created by : SKD			Created on : 30/08/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO. CHST2(M)		Co-ordinates E=490 N=1295		
Field Test	Nos	Samples	Nos	Commencement Date : 20/07/2017					
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 22/07/2017					
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.					
Vane (V)		Disturbed (DS)	4	Level Of Ground : 276.48 m.					
		Water Sample (WS)	0	Water Struck At :					
				Standing Water Level : 0.8 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									
Filled up with road materials.							DS-1	0.50	
0.80m						10	SPT-1	1.00-1.45	
			4	4	6		DS-2	2.00	
							SPT-2	3.00-3.45	
Medium dense, brownish grey, silty sand. (SM)			3	6	8	14	DS-3	4.00	
							SPT-3	5.00-5.45	
			5	8	10	18	DS-4	6.00	
7.00m			40	60		>100	SPT-4	7.00-7.28	
Very dense, brownish grey, silty sand with decomposed fragment. (SM)			13.0	cm	Pentn.		*SPT-5	7.50-7.54	
7.50m			100			Refusal	R1	7.50	
			4.0	cm	Pentn.			↓ 8.25	
			NX rotary drilling from 7.50m to 15.50m			R2	↓ 9.00		
						R3	↓ 9.75		
						R4	↓ 10.50		
						R5	↓ 11.25		
						R6	↓ 12.00		
						R7	↓ 12.75		
						R8	↓ 13.50		
						R9	↓ 14.25		
						R10	↓ 15.00		
						R11	↓ 15.50		
14.25m									
Moderately weathered, brownish grey, fine grained, moderately fractured sandstone.									
15.50m									
N.B. - '*' means sample could not be recovered.									

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST2(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 23/07/2017
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 24/07/2017
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	4	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level :

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Filled up with road materials.								DS-1	0.50
0.80m						14		SPT-1	1.00-1.45
		4	6	8				DS-2	2.00
						16		SPT-2	3.00-3.45
Medium dense, brownish grey, silty sand.		3	8	8				DS-3	4.00
(SM)									
						24		SPT-3	5.00-5.45
		6	10	14				DS-4	6.00
6.30m						37	67	SPT-4	6.50-6.78
Very dense, brownish grey, silty sand (SM)						13.0	cm Pentn.	*SPT-5	7.00-7.04 7.00
with decomposed fragment.						100	Refusal		
7.00m							4.0 cm Pentn.	R1	CR=28% RQD=Nil ↓
							NX rotary drilling from 7.00m to 15.50m		8.50
								R2	CR=36% RQD=16% ↓
									10.00
Highly to moderately weathered, brownish grey, fine grained, moderately fractured sandstone.								R3	CR=40% RQD=18% ↓
									11.50
								R4	CR=48% RQD=25% ↓
									13.00
13.00m								R5	CR=56% RQD=36% ↓
									14.50
Moderately weathered, brownish grey, fine grained, moderately fractured sandstone.								R6	CR=58% RQD=40% ↓
									15.50
15.50m									

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW).

CETEST

Job No : 3973M

Created by : SKD

Created on : 30/08/2017

Sheet No:

BORE LOG DATA SHEET

BORE HOLE NO. CHST2(R2)

Field Test

Nos

Samples

Nos

Penetrometer (SPT)

5

Undisturbed (UDS)

0

Cone (Pc)

Penetrometer (SPT)

5

Vane (V)

Disturbed (DS)

4

Water Sample (WS)

0

Commencement Date : 24/07/2017

Completion Date : 25/07/2017

Bore Hole Diameter : 150mm / NX.

Level Of Ground :

Water Struck At :

Standing Water Level : 0.8 m.

DESCRIPTION

SYMBOL

N-VALUE

SAMPLES

EACH DIVN. = 15cm

Ref. No

Depth (m)

0.00m

Filled up with road materials.

0.80m

Medium dense, brownish grey, silty sand. (SM)

6.30m

Very dense, brownish grey, silty sand (SM) with decomposed fragment.

7.00m

Highly to moderately weathered, brownish grey, fine grained, moderately fractured sandstone.

13.00m

Moderately weathered, brownish grey, fine grained, moderately fractured sandstone.

15.50m

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

3

4

8

12

6

8

14

22

8

14

16

30

45

55

100

4.0 cm Pentn.

4.0 cm Pentn.

Refusal

NX rotary drilling from 7.00m to 15.50m

DS-1

SPT-1

DS-2

SPT-2

DS-3

SPT-3

DS-4

SPT-4

*SPT-5

R1

R2

R3

R4

R5

R6

0.50

1.00-1.45

2.00

3.00-3.45

4.00

5.00-5.45

6.00

6.50-6.69

7.00-7.04 7.00

CR=33% RQD=16%

8.50

CR=42% RQD=NII

10.00

CR=48% RQD=NII

11.50

CR=48% RQD=30%

13.00

CR=54% RQD=36%

14.50

CR=57% RQD=42%

15.50

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). CETEST				
Job No : 3973M		Created by : SKD		Created on : 30/08/2017
Sheet No:		Co-ordinates E=575 N=1308		
BORE LOG DATA SHEET		BORE HOLE NO. CHST3(M)		
Field Test	Nos	Samples	Nos	Commencement Date : 21/07/2017
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 23/07/2017
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.19 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.0 m.
DESCRIPTION		SYMBOL	N-VALUE	SAMPLES
			EACH DIVN. = 15cm	Ref. No
				Depth (m)
0.00m				
Medium dense, yellowish grey, silty sand with clay binder. (SM)				DS-1 1.00
				SPT-1 2.00-2.45
3.30m				DS-2 3.00
				*SPT-2 3.30-3.35 3.30
Highly weathered, light greyish yellow, fine to medium grained, moderately fractured interbedded sandstone - shale.				R1 CR=34% RQD=Nil 4.00
				R2 CR=38% RQD=Nil 4.75
5.50m				R3 CR=40% RQD=14% 5.50
				R4 CR=58% RQD=24% 6.25
Moderately weathered, light greyish yellow, fine to medium grained, moderately fractured interbedded sandstone - shale.				R5 CR=60% RQD=Nil 7.00
				R6 CR=58% RQD=Nil 7.75
8.50m				R7 CR=53% RQD=Nil 8.50
				R8 CR=44% RQD=Nil 9.25
Moderately weathered, light greyish yellow, fine to medium grained, moderately fractured interbedded sandstone - shale. 9.25m				R9 CR=62% RQD=18% 10.00
				R10 CR=52% RQD=28% 10.75
				R11 CR=74% RQD=24% 11.50
				R12 CR=66% RQD=40% 12.25
				R13 CR=64% RQD=28% 13.00
				R14 CR=62% RQD=24% 13.75
				R15 CR=80% RQD=16% 14.50
				R16 CR=68% RQD=Nil 15.25
				R17 CR=72% RQD=48% 16.00
16.00m				

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST3(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 21/07/2017
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 23/07/2017
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.9 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Medium dense, yellowish grey, silty sand with clay binder. (SM)		9	11	16	27		DS-1	1.00
							SPT-1	2.00-2.45
							DS-2	3.00
3.50m		100					*SPT-2	3.50-3.53 3.50
Highly to moderately weathered, light greyish yellow, fine to medium grained, moderately fractured interbedded sandstone - shale.		3.0 cm Pentn.					R1	CR=34% RQD=Nil ↓
		NX rotary drilling from 3.50m to 15.50m						5.00
							R2	CR=45% RQD=23% ↓
6.50m								6.50
							R3	CR=53% RQD=20% ↓
								8.00
							R4	CR=58% RQD=26% ↓
								9.50
							R5	CR=62% RQD=24% ↓
Moderately to slightly weathered, light greyish yellow, fine to medium grained, moderately fractured interbedded sandstone - shale.								11.00
							R6	CR=71% RQD=28% ↓
								12.50
							R7	CR=74% RQD=36% ↓
								14.00
							R8	CR=68% RQD=22% ↓
15.50m								15.50

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). CETEST						
Job No : 3973M		Created by : SKD		Created on : 30/08/2017		Sheet No:
BORE LOG DATA SHEET			BORE HOLE NO. CHST3(R2)			
Field Test	Nos	Samples	Nos	Commencement Date : 20/07/2017		
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 21/07/2017		
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.		
Vane (V)		Disturbed (DS)	2	Level Of Ground :		
		Water Sample (WS)	0	Water Struck At :		
				Standing Water Level : 0.8 m.		
DESCRIPTION		SYMBOL	N-VALUE		SAMPLES	
			EACH DIVN. = 15cm		Ref. No	Depth (m)
0.00m						
Medium dense, yellowish grey, silty sand with clay binder. Observed boulders. (SM)					DS-1	1.00
					SPT-1	2.00-2.45
3.30m					DS-2	3.00
					*SPT-2	3.30-3.33 3.30
Highly to moderately weathered, brownish yellow to greyish yellow, medium grained, moderately fractured interbedded sandstone - shale.					R1	CR=31% RQD=Nil ↓
					R2	CR=36% RQD=18% ↓
6.75m					R3	CR=60% RQD=24% ↓
					R4	CR=53% RQD=26% ↓
					R5	CR=62% RQD=26% ↓
					R6	CR=56% RQD=21% ↓
					R7	CR=68% RQD=34% ↓
					R8	CR=72% RQD=29% ↓
					R9	CR=70% RQD=34% ↓
Moderately to slightly weathered, brownish yellow to greyish yellow, medium grained, moderately fractured interbedded sandstone - shale.						
N.B. - '*' means sample could not be recovered.						
16.00m						

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST4(M) Co-ordinates E=570 N=1235

Field Test	Nos	Samples	Nos	Commencement Date : 19/07/2017
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 21/07/2017
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.256 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Medium dense, greyish brown, silty sand.	(SM)	6	8	13	21		DS-1	1.00
							SPT-1	2.00-2.45
							DS-2	3.00
3.80m		100					*SPT-2	3.80-3.84 3.80
							R1	CR=34% RQD=Nil 4.50
							R2	CR=30% RQD=Nil 5.25
							R3	CR=44% RQD=Nil 6.00
							R4	CR=52% RQD=Nil 6.75
							R5	CR=50% RQD=28% 7.50
							R6	CR=44% RQD=16% 8.25
							R7	CR=56% RQD=15% 9.00
							R8	CR=42% RQD=18% 9.75
							R9	CR=48% RQD=28% 10.50
10.50m							R10	CR=58% RQD=54% 11.25
							R11	CR=56% RQD=28% 12.00
							R12	CR=64% RQD=50% 12.75
							R13	CR=52% RQD=24% 13.50
Modeately weathered, yellowish brown, medium grained, moderately fractured sandstone.							R14	CR=48% RQD=24% 14.25
Modeately weathered, yellowish brown, medium grained, moderately fractured sandstone.							R15	CR=52% RQD=50% 15.00
Modeately weathered, yellowish brown, medium grained, moderately fractured sandstone.							R16	CR=55% RQD=12% 16.00
N.B. - '*' means sample could not be recovered.								
16.00m								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST4(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 21/07/2017
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 22/07/2017
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.1 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Medium dense, light greyish yellow, silty sand. Observed boulder pcs. (SM)		8	10	12	22	DS-1	1.00
						SPT-1	2.00-2.45
						DS-2	3.00
3.85m					Refusal	*SPT-2	3.85-3.88 3.85
					3.0 cm Pentn.	R1	CR=22% RQD=Nil ↓
					NX rotary drilling from 3.85m to 16.00m		5.00
						R2	CR=34% RQD=16% ↓
							6.50
						R3	CR=42% RQD=13% ↓
							8.00
Highly to moderately weathered, yellowish brown to brownish white, medium grained, moderately fractured sandstone.						R4	CR=46% RQD=18% ↓
							9.50
						R5	CR=56% RQD=23% ↓
							11.00
						R6	CR=50% RQD=21% ↓
							12.50
12.50m						R7	CR=54% RQD=25% ↓
							14.00
Moderately to slightly weathered, yellowish brown to brownish white, medium grained, moderately fractured sandstone.						R8	CR=64% RQD=28% ↓
							15.00
N.B. - '*' means sample could not be recovered.						R9	CR=72% RQD=38% ↓
16.00m							16.00

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST4(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 22/07/2017
Penetrometer (SPT)	2	Undisturbed (UDS)	0	Completion Date : 23/07/2017
Cone (Pc)		Penetrometer (SPT)	2	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.85 m.

DESCRIPTION	SYMBOL	N-VALUE				SAMPLES	
		EACH DIVN. = 15cm				Ref. No	Depth (m)
0.00m							
Medium dense, light yellowish grey, silty sand.	(SM)	6	9	13	22	DS-1	1.00
						SPT-1	2.00-2.45
						DS-2	3.00
3.90m					Refusal	*SPT-2	3.90-3.94 3.90
Moderately weathered, yellowish brown, medium grained, moderately fractured sandstone.		100	4.0	cm	Pentn.	R1	CR=46% RQD=16% ↓
					NX rotary drilling from 3.90m to 15.15m		
5.25m						R2	CR=58% RQD=21% ↓
							6.75
						R3	CR=52% RQD=23% ↓
							8.25
						R4	CR=60% RQD=33% ↓
							9.75
Moderately to slightly weathered, yellowish brown to whitish brown, medium grained, moderately fractured sandstone.						R5	CR=64% RQD=40% ↓
							11.25
						R6	CR=72% RQD=36% ↓
							12.75
						R7	CR=64% RQD=28% ↓
							14.25
15.15m						R8	CR=76% RQD=42% ↓
							15.15

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST5(M) Co-ordinates E=784 N=1298

Field Test	Nos	Samples	Nos	Commencement Date : 20/07/2017
Penetrometer (SPT)	3	Undisturbed (UDS)	0	Completion Date : 22/07/2017
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground : 276.32 m.
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.3 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Filled up with boulders.								DS-1	1.00
1.50m									
Medium dense, yellowish grey, silty sand with clay binder. (SM)		4	6	8	14			SPT-1	2.00-2.45
								DS-2	3.00
								SPT-2	3.50-3.95
4.05m								*SPT-3	4.05-4.08
Highly weathered, light yellowish grey, fine grained, highly fractured sandstone.								R1	4.50
4.50m								R2	5.25
								R3	6.00
								R4	6.75
								R5	7.50
								R6	8.25
								R7	9.00
								R8	9.75
								R9	10.50
								R10	11.25
								R11	12.00
								R12	12.75
								R13	13.50
								R14	14.25
								R15	15.00
								R16	15.75

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

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). CETEST								
Job No : 3973M		Created by : SKD		Created on : 30/08/2017		Sheet No:		
BORE LOG DATA SHEET				BORE HOLE NO. CHST5(R1)				
Field Test	Nos	Samples	Nos	Commencement Date : 22/07/2017				
Penetrometer (SPT)	3	Undisturbed (UDS)	0	Completion Date : 24/07/2017				
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.				
Vane (V)		Disturbed (DS)	2	Level Of Ground :				
		Water Sample (WS)	0	Water Struck At :				
				Standing Water Level : 1.2 m.				
DESCRIPTION		SYMBOL	N-VALUE			SAMPLES		
			EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m								
Filled up with brownish yellow, different shapes boulder.						DS-1	1.00	
1.50m								
Very stiff to hard, greyish yellow, silty clay with sand mixture. Observed boulders. (CL)			7	10	13	23	SPT-1	2.00-2.45
							DS-2	3.00
4.10m			48	65		>100	SPT-2	3.60-3.83
			8.0	cm	Pentn.		*SPT-3	4.10-4.13 4.10
			100		Refusal			
			3.0	cm	Pentn.		R1	CR=28% RQD=NII ↓
			NX rotary drilling from 4.10m to 15.50m					
								5.50
							R2	CR=39% RQD=NII ↓
								7.00
							R3	CR=42% RQD=NII ↓
								8.50
							R4	CR=36% RQD=NII ↓
								10.00
							R5	CR=44% RQD=16% ↓
								11.50
							R6	CR=48% RQD=24% ↓
								13.00
13.00m							R7	CR=51% RQD=NII ↓
								14.00
							R8	CR=54% RQD=20% ↓
								15.50
15.50m								
N.B. - '*' means sample could not be recovered.								

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST5(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 25/07/2017
Penetrometer (SPT)	3	Undisturbed (UDS)	0	Completion Date : 26/07/2017
Cone (Pc)		Penetrometer (SPT)	3	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	2	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 1.2 m.

DESCRIPTION	SYMBOL	N-VALUE					SAMPLES	
		EACH DIVN. = 15cm					Ref. No	Depth (m)
0.00m								
Filled up soil consist of brownish grey, sandy silt with stone chips & boulders.							DS-1	1.00
1.50m								
Very stiff to hard, greyish yellow, silty clay with boulders. Observed decomposed rock fragment. (CL)		8	11	14	25		SPT-1	2.00-2.45
							DS-2	3.00
		42	58		>100		SPT-2	3.50-3.72
3.90m		100	70	cm	Pentn. Refusal		*SPT-3	3.90-3.94 3.90
			40	cm	Pentn.			
		NX rotary drilling from 3.90m to 15.50m					R1	CR=35% RQD=Nil ↓
								5.40
Highly to moderately weathered, light brownish yellow, medium grained, highly to moderately fractured sandstone.							R2	CR=39% RQD=Nil ↓
								6.90
							R3	CR=43% RQD=13% ↓
								8.40
8.40m							R4	CR=55% RQD=24% ↓
								9.90
9.90m							R5	CR=60% RQD=28% ↓
								11.40
							R6	CR=64% RQD=30% ↓
								12.90
Moderately to slightly weathered, greyish yellow, medium to fine grained, moderately fractured sandstone.							R7	CR=67% RQD=21% ↓
								14.40
							R8	CR=71% RQD=30% ↓
								15.50
15.50m								
N.B. - '*' means sample could not be recovered.								

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). CETEST									
Job No : 3973M			Created by : SKD			Created on : 30/08/2017		Sheet No:	
BORE LOG DATA SHEET					BORE HOLE NO. CHST6(M)		Co-ordinates E=845 N=1119		
Field Test	Nos	Samples	Nos	Commencement Date : 24/07/2017					
Penetrometer (SPT)	4	Undisturbed (UDS)	0	Completion Date : 25/07/2017					
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.					
Vane (V)		Disturbed (DS)	3	Level Of Ground : 276.24 m.					
		Water Sample (WS)	0	Water Struck At :					
				Standing Water Level : 0.7 m.					
DESCRIPTION			SYMBOL	N-VALUE			SAMPLES		
				EACH DIVN. = 15cm			Ref. No	Depth (m)	
0.00m									
Medium dense, brownish grey, silty sand. (SM)				14			DS-1	0.50	
			4 5 9				SPT-1	1.00-1.45	
				26			DS-2	2.00	
			8 12 14				SPT-2	3.00-3.45	
				>100			DS-3	4.00	
5.00m				36 64			SPT-3	5.00-5.28	
Very dense, brownish grey, silty sand with decomposed fragment. (SM)				13.0 cm Pentn. Refusal					
6.00m				100			*SPT-4	6.00-6.04 6.00	
				4.0 cm Pentn.			R1	CR=24% RQD=Nil	
Highly weathered, brownish grey, fine grained, moderately fractured sandstone.				NX rotary drilling from 6.00m to 15.50m			R2	CR=28% RQD=Nil	
							R3	CR=24% RQD=18%	
							R4	CR=26% RQD=16%	
8.25m							R5	CR=30% RQD=Nil	
							R6	CR=34% RQD=24%	
							R7	CR=36% RQD=28%	
							R8	CR=40% RQD=Nil	
Highly to moderately weathered, brownish grey, fine grained, moderately fractured sandstone.							R9	CR=45% RQD=22%	
							R10	CR=42% RQD=Nil	
							R11	CR=44% RQD=Nil	
							R12	CR=47% RQD=Nil	
15.00m							R13	CR=55% RQD=45%	
Moderately weathered, brownish grey, fine grained, moderately fractured sandstone.								15.50	
N.B. - '*' means sample could not be recovered.									

Receipt No : 292418/2024/PS-HQ-HRM

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST6(R1)

Field Test	Nos	Samples	Nos	Commencement Date : 25/07/2017
Penetrometer (SPT)	4	Undisturbed (UDS)	0	Completion Date : 26/07/2017
Cone (Pc)		Penetrometer (SPT)	4	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.65 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
Medium dense, brownish grey, silty sand. (SM)								DS-1	0.50
		4	10	12		22		SPT-1	1.00-1.45
								DS-2	2.00
		8	12	16		28		SPT-2	3.00-3.45
5.00m								DS-3	4.00
		10	25	30		55		SPT-3	5.00-5.45
						Refusal		*SPT-4	6.00-6.04 6.00
Very dense, brownish grey, silty sand with decomposed rock. (SM)								R1	CR=30% RQD=Nil ↓
Highly to moderately weathered, brownish grey, fine grained, moderately fractured sandstone.									7.50
								R2	CR=36% RQD=12% ↓
									9.00
								R3	CR=42% RQD=30% ↓
									10.50
								R4	CR=45% RQD=18% ↓
13.50m									12.00
								R5	CR=48% RQD=25% ↓
									13.50
Moderately weathered, brownish grey, fine grained, moderately fractured sandstone.								R6	CR=55% RQD=36% ↓
									15.00
15.50m								R7	CR=58% RQD=30% ↓
									15.50

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

Project : Detailed Geotech. Inv. Work for Singrauli STPP, Stage -III (2 x 660MW). **CETEST**

Job No : 3973M Created by : SKD Created on : 30/08/2017 Sheet No:

BORE LOG DATA SHEET BORE HOLE NO. CHST6(R2)

Field Test	Nos	Samples	Nos	Commencement Date : 24/07/2017
Penetrometer (SPT)	5	Undisturbed (UDS)	0	Completion Date : 25/07/2017
Cone (Pc)		Penetrometer (SPT)	5	Bore Hole Diameter : 150mm / NX.
Vane (V)		Disturbed (DS)	3	Level Of Ground :
		Water Sample (WS)	0	Water Struck At :
				Standing Water Level : 0.75 m.

DESCRIPTION	SYMBOL	N-VALUE						SAMPLES	
		EACH DIVN. = 15cm						Ref. No	Depth (m)
0.00m									
						11		DS-1	0.50
		3	5	6				SPT-1	1.00-1.45
								DS-2	2.00
Medium dense, brownish grey, silty sand. (SM)						21		SPT-2	3.00-3.45
		6	10	11				DS-3	4.00
						30		SPT-3	5.00-5.45
		6	12	18					
5.50m									
Very dense, brownish grey, silty sand (SM) with decomposed rock.		100				>100		SPT-4	6.00-6.10
6.30m		10.0				Refusal		*SPT-5	6.30-6.34 6.30
		100						R1	CR=29% RQD=Nil 7.00
								R2	CR=33% RQD=16% ↓
									8.50
								R3	CR=40% RQD=21% ↓
									10.00
Highly to moderately weathered, brownish grey, fine grained, moderately fractured sandstone.								R4	CR=44% RQD=25% ↓
									11.50
								R5	CR=50% RQD=30% ↓
									13.00
13.00m								R6	CR=52% RQD=36% ↓
									14.50
Moderately weathered, brownish grey, fine grained, moderately fractured sandstone.								R7	CR=55% RQD=40% ↓
									15.50
15.50m									

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

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-01	LOCATION	Gate Complex		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	278		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		NMW	CO-ORDINATES N	1405		CASING DEPTH, m		2.50				
START DATE		07/02/2023	GROUND ELEVATION	276.521		CORE DIAMETER		54 mm				
END DATE		07/02/2023	CIRCULATION FLUID	WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 1.20m, Filled up soil										
1.0					SPT	7	8	10	18			
1.5		1.20m to 5.50m, Yellowish brown silty clay of low plasticity with gravels										
2.0												
2.5					SPT	9	11	12	23			
3.0												
3.5												
4.0					SPT	4	7	11	18			
4.5												
5.0												
5.5					SPT	6	9	14	23			
6.0		5.50m to 8.50m, Yellowish brown clayey sand of medium plasticity with gravels										
6.5												
7.0					SPT	10	13	15	28			
7.5												
8.0												
8.5					SPT	19	28	50(3cm)	REF			
9.0		8.50m to 10.00m, Highly weathered and Very poor yellowish brown sandstone			CR					33.00	11.00	
9.5												
10.0												

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-02	LOCATION	Gate Complex	TYPE OF RIG		HYDRAULIC							
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	313	DRILLING METHOD		ROTARY							
GROUND WATER TABLE		3.60	CO-ORDINATES N	1401	CASING DEPTH, m		2.50							
START DATE		06/12/2022	GROUND ELEVATION	276.139	CORE DIAMETER		54 mm							
END DATE		07/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm							
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE				
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %		
0.5		0.00m to 0.50m, Filled up soil			DS									
1.0		0.50m to 4.50m, Yellowish brown clayey sand of medium plasticity with gravels												
1.5					SPT	7	10	15	25					
2.0														
2.5														
3.0					SPT	9	13	22	35					
3.5														
4.0														
4.5					SPT	10	21	35	56					
5.0		4.50m to 9.50m, Yellowish brown poorly graded silty sand, non-plastic with gravels												
5.5														
6.0					SPT	11	20	30	50					
6.5														
7.0														
7.5					SPT	50(7cm)	-	-	REF					
8.0														
8.5														
9.0					SPT	50(8cm)	-	-	REF					
9.5														
10.0		9.50m to 10.00m, Yellowish brown silty sand, non-plastic with gravels			SPT	50(6cm)	-	-	REF					

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-03	LOCATION	Construction Office	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	385	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.45	CO-ORDINATES N	1401	CASING DEPTH, m		2.00				
START DATE		20/12/2022	GROUND ELEVATION	276.162	CORE DIAMETER		54 mm				
END DATE		20/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.80m, Filled up soil		DS							
1.0											
1.5		0.80m to 4.00m, Brownish greyish silty clay of low plasticity	SPT	3	4	4	8				
2.0											
2.5											
3.0			SPT	11	17	25	42				
3.5											
4.0											
4.5		4.00m to 10.00m, Yellowish brownish silty clay of low plasticity	SPT	15	22	35	57				
5.0											
5.5											
6.0			SPT	17	24	38	62				
6.5											
7.0											
7.5			SPT	18	25	39	64				
8.0											
8.5											
9.0			SPT	19	26	40	66				
9.5											
10.0	SPT		18	27	45	72					

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-04		LOCATION		O & M Store		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		429		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		3.10		CO-ORDINATES N		1469		CASING DEPTH, m		2.50				
START DATE		22/12/2022		GROUND ELEVATION		277.426		CORE DIAMETER		54 mm				
END DATE		22/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.50m, Filled up soil				DS								
1.0		0.50m to 3.00m, Brownish silty clay of intermediate plasticity with small fraction of gravels												
1.5						SPT	2	2	4	6				
2.0														
2.5														
3.0		3.00m to 4.50m, Brownish silty sand, non-plastic with gravels				SPT	7	7	9	16				
3.5														
4.0														
4.5	SPT					11	18	25	43					
5.0		4.50m to 6.50m, Brownish poorly graded silty sand, non-plastic with gravels												
5.5														
6.0						SPT	13	20	29	49				
6.5														
7.0		6.50m to 12.00m, Highly weathered, poor to very poor reddish brown sandstone				CR						16.00	0.00	
7.5														
8.0						CR							30.00	0.00
8.5														
9.0														
9.5						CR							40.00	0.00
10.0														
10.5														
11.0						CR							33.00	30.00
11.5														
12.0														

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-05	LOCATION	Ash Silo SWGR	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	442	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		3.10	CO-ORDINATES N	1758	CASING DEPTH, m		6.00				
START DATE		25-02-2023	GROUND ELEVATION	281.203	CORE DIAMETER		54 mm				
END DATE		25-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil		DS-1							
1.0		0.50m to 3.50m, Yellowish brown poorly graded sand, non-plastic									
1.5				SPT-1	3	2	3	5			
2.0											
2.5											
3.0				SPT-2	40	50 (2cm)	-	REF			
3.5											
4.0		3.50m to 6.00m, Yellowish brown silty sand, non-plastic									
4.5				SPT-3	50 (10cm)	-	-	REF			
5.0											
5.5											
6.0				SPT-4	50 (9cm)	-	-	REF			
6.5		6.00m to 10.00m, Yellowish brown highly weathered and very poor to poor silty sandstone		CR						12.00	0.00
7.0											
7.5											
8.0				CR						15.00	0.00
8.5											
9.0											
9.5				CR						32.00	32.00
10.0											

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-06	LOCATION	Pipe Trestle	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	529	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10	CO-ORDINATES N	1379	CASING DEPTH, m		6.00				
START DATE		26-02-2023	GROUND ELEVATION	277.389	CORE DIAMETER		54 mm				
END DATE		27-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.70m, Filled up soil		DS-1							
1.0											
1.5		0.70m to 2.00m, Yellowish brown silty clay of low plasticity		SPT-1	5	7	9	16			
2.0											
2.5		2.00m to 6.00m, Yellowish brown highly weathered and poor to very poor sandstone		CR-1						66.00	38.00
3.0											
3.5				CR-2						38.00	0.00
4.0											
4.5											
5.0				SPT-2/CR-3	7	15	25	40		0.00	0.00
5.5		6.00m to 8.00m, Yellowish brown silty clay of low plasticity with small fraction of gravels									
6.0											
6.5											
7.0											
7.5		8.00m to 10.00m, Yellowish brown highly to slightly weathered and very poor siltstone		SPT-3	10	12	29	41			
8.0											
8.5				CR-4						90.00	0.00
9.0											
9.5				CR-5						45.00	10.00
10.0											

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-07		LOCATION		CWPH		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		431		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		3.40		CO-ORDINATES N		992		CASING DEPTH, m		6.00				
START DATE		06-03-2023		GROUND ELEVATION		271.604		CORE DIAMETER		54 mm				
END DATE		06-03-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.45m, Filled up soil				DS-1								
1.0		0.45m to 15.00m, Yellowish brown silty clay of low plasticity with intermittent small fraction of gravels												
1.5						SPT-1	2	2	3	5				
2.0														
2.5														
3.0						SPT-2	3	5	4	9				
3.5														
4.0														
4.5						SPT-3	5	8	9	17				
5.0														
5.5														
6.0						SPT-4	5	7	8	15				
6.5														
7.0														
7.5						SPT-5	7	9	11	20				
8.0														
8.5														
9.0						SPT-6	9	11	13	24				
9.5														
10.0														
10.5						SPT-7	12	16	19	35				
11.0														
11.5														
12.0	SPT-8	15	21	25	46									
12.5														
13.0														
13.5	SPT-9	18	23	29	52									
14.0														
14.5														
15.0		SPT-10	19	44	50 (4cm)	REF								

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-08	LOCATION		CT-01	TYPE OF RIG		HYDRAULIC					
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E		640	DRILLING METHOD		ROTARY					
GROUND WATER TABLE		2.50	CO-ORDINATES N		900	CASING DEPTH, m		2.50					
START DATE		11/02/2023	GROUND ELEVATION		276.21	CORE DIAMETER		54 mm					
END DATE		13/02/2023	CIRCULATION FLUID		WATER	DIAMETER OF HOLE		150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 1.20m, Filled up soil											
1.0													
1.5		1.20m to 4.50m, Greyish brown silty clay of low plasticity			SPT	5	9	13	22				
2.0													
2.5													
3.0					SPT	4	5	7	12				
3.5													
4.0													
4.5					SPT	4	6	9	15				
5.0		4.50m to 9.00m, Greyish brown silty clay of intermediate plasticity with gravels											
5.5													
6.0					SPT	7	13	22	35				
6.5													
7.0													
7.5					SPT	10	18	25	43				
8.0													
8.5													
9.0					SPT	8	22	32	54				
9.5					9.00m to 10.50m, Light brown silty clay of intermediate plasticity with gravels								
10.0													
10.5	SPT	11	20	30				50					
11.0		10.50m to 15.00m, Yellowish brown clayey sand of medium plasticity with small fraction of gravels											
11.5													
12.0					SPT	50(14cm)	-	-	REF				
12.5													
13.0													
13.5					SPT	13	23	36	59				
14.0													
14.5													
15.0					SPT	10	27	39	66				

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
			PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.			DBH-09		LOCATION		AWPH		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m			15.00		CO-ORDINATES E		676.605		DRILLING METHOD		ROTARY			
GROUND WATER TABLE			2.10		CO-ORDINATES N		998.391		CASING DEPTH, m		2.50			
START DATE			16/01/2023		GROUND ELEVATION		275.312		CORE DIAMETER		54 mm			
END DATE			17/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE					SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
								N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.47m, Filled up soil					DS							
1.0		0.47m to 3.00m, Greyish brown silty clay of low plasticity												
1.5							SPT	3	4	6	10			
2.0														
2.5														
3.0							UDS							
3.5		3.00m to 6.00m, Greyish brown clayey sand of medium plasticity with small fraction of gravels												
4.0														
4.5							SPT	5	6	7	13			
5.0														
5.5														
6.0		SPT	4	5	8	13								
6.5		6.00m to 7.50m, Yellowish brown silty clay of intermediate plasticity with gravels												
7.0														
7.5		SPT	7	8	10	18								
8.0		7.50m to 9.50m, Yellowish brown silty clay of low plasticity with gravels												
8.5														
9.0							SPT	10	12	13	25			
9.5														
10.0		9.50m to 15.00m, Yellowish brown silty sand, non-plastic with gravels												
10.5							SPT	16	24	38	62			
11.0														
11.5														
12.0							SPT	18	50(7cm)	-	REF			
12.5														
13.0														
13.5							SPT	50(9cm)	-	-	REF			
14.0														
14.5														
15.0							SPT	50(3cm)	-	-	REF			

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-10		LOCATION		CT-01		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		753		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.80		CO-ORDINATES N		912		CASING DEPTH, m		2.50			
START DATE		13/01/2023		GROUND ELEVATION		276.158		CORE DIAMETER		54 mm			
END DATE		14/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.30m, Filled up soil				DS							
1.0		0.30m to 3.00m, Yellowish brown clayey sand of medium plasticity with gravels											
1.5						SPT	3	4	4	8			
2.0													
2.5													
3.0						UDS							
3.5		3.00m to 10.50m, Greyish brown clayey sand of medium plasticity with gravels											
4.0													
4.5						SPT	5	6	8	14			
5.0													
5.5													
6.0						SPT	5	8	9	17			
6.5													
7.0													
7.5						SPT	7	10	12	22			
8.0													
8.5													
9.0						SPT	34	50(5cm)	-	REF			
9.5													
10.0													
10.5	SPT					50(10cm)	-	-	REF				
11.0	CR						53.00	0.00					
11.5	10.50m to 15.00m, Highly to moderately weathered, Very poor to poor yellowish brown silty sandstone												
12.0													
12.5					CR						61.00	36.00	
13.0													
13.5													
14.0					CR						46.00	15.00	
14.5													
15.0													

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-11		LOCATION		CT-01		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		733		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.95		CO-ORDINATES N		788		CASING DEPTH, m		2.50			
START DATE		09/02/2023		GROUND ELEVATION		276.236		CORE DIAMETER		54 mm			
END DATE		10/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.45m, Filled up soil				DS							
1.0		0.45m to 4.50m, Greyish brown silty clay of low plasticity with gravels											
1.5						SPT	1	2	4	6			
2.0													
2.5													
3.0						SPT	1	2	2	4			
3.5													
4.0													
4.5						SPT	3	5	7	12			
5.0		4.50m to 9.00m, Light brown silty clay of low plasticity with gravels											
5.5													
6.0						SPT	5	6	8	14			
6.5													
7.0													
7.5						SPT	8	10	12	22			
8.0													
8.5													
9.0	SPT	8	10	14	24								
9.5	9.00m to 15.00m, Yellowish brown clayey sand of medium plasticity with gravels												
10.0													
10.5					SPT	19	25	50(12cm)	REF				
11.0													
11.5													
12.0					SPT	18	50(8cm)	-	REF				
12.5													
13.0													
13.5					SPT	50(12cm)	-	-	REF				
14.0													
14.5													
15.0	SPT	50(8cm)	-	-	REF								

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-12		LOCATION		CT-01		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		646		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10		CO-ORDINATES N		810		CASING DEPTH, m		6.00				
START DATE		01-03-2023		GROUND ELEVATION		275.806		CORE DIAMETER		54 mm				
END DATE		01-03-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 1.00m, Filled up soil				DS-1								
1.0														
1.5		1.00m to 2.50m, Yellowish brown silty clay of low plasticity with small fraction of gravels				SPT-1	8	11	13	24				
2.0						UDS-1								
2.5														
3.0		2.50m to 5.00m, Yellowish brown silty sand, non-plastic				SPT-2	10	16	21	37				
3.5														
4.0														
4.5						SPT-3	26	47	50 (6cm)	REF				
5.0		5.00m to 15.00m, Yellowish brown clayey sand of high plasticity												
5.5														
6.0						SPT-4	39	50 (8cm)	-	REF				
6.5														
7.0														
7.5						SPT-5	50 (7cm)	-	-	REF				
8.0														
8.5														
9.0						SPT-6	50 (6cm)	-	-	REF				
9.5														
10.0														
10.5						SPT-7	50 (3cm)	-	-	REF				
11.0														
11.5														
12.0						SPT-8	50 (2cm)	-	-	REF				
12.5														
13.0														
13.5						SPT-9	50 (3cm)	-	-	REF				
14.0														
14.5														
15.0						SPT-10	50 (4cm)	-	-	REF				

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-14	LOCATION	CASP SWGR Room	TYPE OF RIG				HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	734	DRILLING METHOD				ROTARY				
GROUND WATER TABLE		2.10	CO-ORDINATES N	1004	CASING DEPTH, m				6.00				
START DATE		22-02-2023	GROUND ELEVATION	275.624	CORE DIAMETER				54 mm				
END DATE		26-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE				150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.80m, Filled up soil			DS-1								
1.0													
1.5		0.80m to 9.00m, Yellowish brown silty clay of low plasticity with intermittent small fraction of gravels			SPT-1	3	3	4	7				
2.0													
2.5													
3.0					SPT-2	3	4	6	10				
3.5													
4.0													
4.5					SPT-3	4	6	6	12				
5.0													
5.5													
6.0					SPT-4	3	6	9	15				
6.5													
7.0													
7.5					SPT-5	9	11	18	29				
8.0													
8.5													
9.0					SPT-6	12	12	15	27				
9.5	9.00m to 10.00m, Brown highly weathered and very poor sand stone			CR-1						33.00	0.00		
10.0	10.00m to 12.00m, Yellowish brown silty clay of low plasticity with intermittent small fraction of gravels			SPT-7	40	50 (4cm)	-	REF					
10.5													
11.0													
11.5													
12.0	12.00m to 15.00m, Yellowish brown highly weathered and very poor sand stone			SPT-8	50 (3cm)	-	-	REF					
12.5				CR-2						42.00	16.00		
13.0													
13.5													
14.0				CR-3						33.00	0.00		
14.5													
15.0													

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-15		LOCATION		LDO Unloading Platform		TYPE OF RIG		HYDRAULIC		
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1082		DRILLING METHOD		ROTARY		
GROUND WATER TABLE		1.80		CO-ORDINATES N		1026		CASING DEPTH, m		2.50		
START DATE		16/01/2023		GROUND ELEVATION		275.901		CORE DIAMETER		54 mm		
END DATE		17/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm		
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.30m, Filled up soil			DS							
1.0		0.30m to 4.50m, Greyish brown clayey sand of medium plasticity with gravels										
1.5					SPT	3	4	6	10			
2.0												
2.5												
3.0					SPT	6	7	8	15			
3.5												
4.0												
4.5					SPT	8	11	14	25			
5.0		4.50m to 10.50m, Yellowish brown silty clay of intermediate plasticity with gravels										
5.5												
6.0					SPT	15	23	34	57			
6.5												
7.0												
7.5					SPT	10	21	36	57			
8.0												
8.5												
9.0					SPT	13	50(7cm)	-	REF			
9.5												
10.0												
10.5					SPT	50(8cm)	-	-	REF			
11.0		10.50m to 12.00m, Highly weathered Very poor yellowish brown silty sandstone			CR					44.00	9.00	
11.5												
12.0												

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-16		LOCATION		FOPH		TYPE OF RIG		HYDRAULIC		
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1045.283		DRILLING METHOD		ROTARY		
GROUND WATER TABLE		1.85		CO-ORDINATES N		1055.501		CASING DEPTH, m		2.50		
START DATE		12/01/2023		GROUND ELEVATION		276.342		CORE DIAMETER		54 mm		
END DATE		13/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm		
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
		0.00m to 0.20m, Filled up soil										
0.5		0.20m to 10.50m, Greyish brown silty sand, non-plastic with gravels			DS							
1.0												
1.5					SPT	2	2	2	4			
2.0												
2.5												
3.0					SPT	4	4	6	10			
3.5												
4.0												
4.5					SPT	9	10	11	21			
5.0												
5.5												
6.0					SPT	8	11	11	22			
6.5												
7.0												
7.5					SPT	14	50(5cm)	-	REF			
8.0												
8.5												
9.0					SPT	18	20	50(2cm)	REF			
9.5												
10.0												
10.5					SPT	50(7cm)	-	-	REF			
11.0		CR						38.00	0.00			
11.5		10.50m to 12.00m, Highly weathered Very poor yellowish brown silty sandstone										
12.0												

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-17		LOCATION		LDO		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		971.023		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.90		CO-ORDINATES N		1081.202		CASING DEPTH, m		2.50			
START DATE		05/01/2023		GROUND ELEVATION		276.33		CORE DIAMETER		54 mm			
END DATE		09/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 6.50m, Yellowish brown clayey sand of medium plasticity with gravels											
1.5						SPT	2	2	4	6			
2.0													
2.5													
3.0						UDS							
3.5													
4.0													
4.5						SPT	5	6	8	14			
5.0													
5.5													
6.0						SPT	8	9	11	20			
6.5													
7.0		6.50m to 12.00m, Highly to slightly weathered, very poor to fair yellowish brown to white sandstone				CR						42.00	8.00
7.5						CR						62.00	61.00
8.0													
8.5													
9.0													
9.5						CR						53.00	0.00
10.0													
10.5						CR						76.00	71.00
11.0													
11.5													
12.0													

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-18	LOCATION	Gypsum Storage Shed	TYPE OF RIG		HYDRAULIC					
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	922	DRILLING METHOD		ROTARY					
GROUND WATER TABLE		1.76	CO-ORDINATES N	940	CASING DEPTH, m		6.00					
START DATE		18-02-2023	GROUND ELEVATION	276.45	CORE DIAMETER		54 mm					
END DATE		18-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 1.10m, Filled up soil		DS-1								
1.0												
1.5		1.10m to 2.00m, Yellowish brown clayey sand of high plasticity with gravels		SPT-1	3	3	5	8				
2.0												
2.5		2.00m to 5.00m, Yellowish brown silty clay of low plasticity with small fraction of gravels										
3.0				SPT-2	4	4	6	10				
3.5												
4.0												
4.5				SPT-3	12	9	9	18				
5.0												
5.5		5.00m to 6.00m, Yellowish brown highly weathered and very poor sand stone		CR-1						45.00	17.00	
6.0												
6.5		6.00m to 11.00m, Yellowish brown clayey sand of medium plasticity with small fraction of gravels										
7.0												
7.5				SPT-4	16	24	29	53				
8.0												
8.5												
9.0				SPT-5	22	45	50 (5cm)	REF				
9.5												
10.0												
10.5				SPT-5	35	46	50 (2cm)	REF				
11.0												
11.5		11.00m to 12.00m, Yellowish brown moderately weathered and very poor sand stone		CR-2						61.00	9.00	
12.0												
12.5		12.00m to 15.00m, Yellowish brown clayey sand of medium plasticity with small fraction of gravels										
13.0												
13.5				SPT-7	32	50 (13cm)	-	REF				
14.0												
14.5												
15.0				SPT-8	50 (7cm)	-	-	REF				

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-19		LOCATION	Gypsum Storage Shed	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E	915	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.90		CO-ORDINATES N	860	CASING DEPTH, m		2.50				
START DATE		10/02/2023		GROUND ELEVATION	277.728	CORE DIAMETER		54 mm				
END DATE		12/02/2023		CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.90m, Filled up soil			DS							
1.0												
1.5		0.90m to 4.50m, Yellowish brown silty sand, non-plastic with gravels			SPT	2	4	4	8			
2.0												
2.5												
3.0					SPT	4	5	4	9			
3.5												
4.0												
4.5					SPT	7	9	13	22			
5.0					4.50m to 10.50m, Reddish brown silty sand, non-plastic with gravels							
5.5												
6.0	SPT	7	7	9				16				
6.5												
7.0												
7.5	SPT	8	10	16				26				
8.0												
8.5												
9.0		4.50m to 10.50m, Reddish brown silty sand, non-plastic with gravels			SPT	5	8	10	18			
9.5												
10.0												
10.5					SPT	9	10	12	22			
11.0												
11.5												
12.0					SPT	50(14cm)	-	-	REF			
12.5												
13.0		10.50m to 15.00m, Yellowish brown clayey sand of medium plasticity with gravels										
13.5					SPT	50(12cm)	-	-	REF			
14.0												
14.5												
15.0					SPT	50(12cm)	-	-	REF			

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-20	LOCATION	Gypsum Dewatering	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	15.00	CO-ORDINATES E	927	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	2.20	CO-ORDINATES N	786	CASING DEPTH, m		2.50			
START DATE	08/02/2023	GROUND ELEVATION	276.571	CORE DIAMETER		54 mm			
END DATE	09/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.75m, Filled up soil	DS						
1.0		0.75m to 3.00m, Yellowish brown clayey sand of medium plasticity							
1.5			SPT	3	4	4	8		
2.0									
2.5									
3.0			UDS						
3.5		3.00m to 6.00m, Reddish brown silty clay of low plasticity with gravels							
4.0									
4.5			SPT	6	8	8	16		
5.0									
5.5		6.00m to 10.50m, Greyish brown silty clay of low plasticity with gravels							
6.0			SPT	6	11	10	21		
6.5									
7.0									
7.5		10.50m to 15.00m, Yellowish brown silty sand, non-plastic with gravels	SPT	10	12	14	26		
8.0									
8.5									
9.0			SPT	4	7	6	13		
9.5		10.50m to 15.00m, Yellowish brown silty sand, non-plastic with gravels							
10.0									
10.5			SPT	3	6	6	12		
11.0									
11.5		10.50m to 15.00m, Yellowish brown silty sand, non-plastic with gravels							
12.0			SPT	12	18	18	36		
12.5									
13.0									
13.5		10.50m to 15.00m, Yellowish brown silty sand, non-plastic with gravels	SPT	10	12	38	50		
14.0									
14.5									
15.0			SPT	11	11	35	46		

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-21	LOCATION	CAC	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	974	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.80	CO-ORDINATES N	951	CASING DEPTH, m	2.50					
START DATE		20-02-2023	GROUND ELEVATION	275.671	CORE DIAMETER	54 mm					
END DATE		21-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 1.10m, Filled up soil		DS-1							
1.0											
1.5		1.10m to 11.00m, Yellowish brown clayey sand of high plasticity with intermittent small fraction of gravels		SPT-1	3	2	4	6			
2.0											
2.5											
3.0				SPT-2	6	9	7	16			
3.5				UDS-1							
4.0											
4.5				SPT-3	6	3	13	16			
5.0											
5.5											
6.0				SPT-4	4	9	8	17			
6.5											
7.0											
7.5				SPT-5	15	21	25	46			
8.0											
8.5											
9.0				SPT-6	12	24	36	60			
9.5											
10.0											
10.5	SPT-7	15	29	39	68						
11.0											
11.5		11.00m to 13.50m, Yellowish brown moderately weathered and very poor rock		CR-1						72.00	46.00
12.0											
12.5				CR-2						73.00	47.00
13.0											
13.5		13.50m to 15.00m, Yellowish brown clayey sand of high plasticity with small fraction of gravels									
14.0											
14.5											
15.0				SPT-8	50 (6cm)	-	-	REF			

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-22	LOCATION	Fire Water Pump House	TYPE OF RIG		HYDRAULIC							
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	972	DRILLING METHOD		ROTARY							
GROUND WATER TABLE		2.25	CO-ORDINATES N	817	CASING DEPTH, m		2.50							
START DATE		07/02/2023	GROUND ELEVATION	277.268	CORE DIAMETER		54 mm							
END DATE		08/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm							
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE				
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %		
0.5		0.00m to 0.25m, Filled up soil			DS									
1.0														
1.5		SPT	3	8	8	16								
2.0														
2.5		0.25m to 4.50m, Greyish brown silty clay of low plasticity with gravels												
3.0					SPT	4	3	6	9					
3.5														
4.0														
4.5	SPT	4	6	7	13									
5.0		4.50m to 6.00m, Reddish brown clayey sand of medium plasticity with gravels												
5.5														
6.0					SPT	6	9	11	20					
6.5		6.00m to 15.00m, Yellowish brown silty sand, non-plastic with gravels												
7.0														
7.5					SPT	10	12	18	30					
8.0														
8.5														
9.0					SPT	17	50(5cm)	-	REF					
9.5														
10.0														
10.5					SPT	40	50(4cm)	-	REF					
11.0														
11.5														
12.0					SPT	38	50(10cm)	-	REF					
12.5														
13.0														
13.5					SPT	35	50(8cm)	-	REF					
14.0														
14.5														
15.0					SPT	37	50(7cm)	-	REF					

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-23		LOCATION		Clarifier		TYPE OF RIG		HYDRAULIC		
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1029		DRILLING METHOD		ROTARY		
GROUND WATER TABLE		1.10		CO-ORDINATES N		955		CASING DEPTH, m		2.50		
START DATE		31/01/2023		GROUND ELEVATION		275.639		CORE DIAMETER		54 mm		
END DATE		03/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm		
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.15m, Filled up soil				DS						
1.0		0.15m to 6.00m, Yellowish brown silty sand, non-plastic with gravels										
1.5			SPT	2	3	4	7					
2.0												
2.5												
3.0			SPT	2	2	4	6					
3.5												
4.0												
4.5			UDS									
5.0												
5.5												
6.0	SPT		4	5	7	12						
6.5		6.00m to 9.50m, Greyish brown clayey sand of medium plasticity with gravels										
7.0												
7.5			SPT	2	5	7	12					
8.0												
8.5												
9.0			SPT	22	38	39	77					
9.5												
10.0		9.50m to 10.50m, Moderately weathered poor yellowish brown silty sandstone	CR						62.00	47.00		
10.5		10.50m to 13.50m, Yellowish brown clayey sand of high plasticity with gravels										
11.0												
11.5												
12.0			SPT	50(3cm)	-	-	REF					
12.5												
13.0												
13.5			SPT	50(8cm)	-	-	REF					
14.0		13.50m to 15.00m, Highly weathered Very poor yellowish brown sandy siltstone	CR/SPT	50(8cm)	-	-	REF		28.00	0.00		
14.5												
15.0												

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-24		LOCATION		Acid Alkali Storage Area		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1013		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.20		CO-ORDINATES N		904		CASING DEPTH, m		2.50			
START DATE		14/02/2023		GROUND ELEVATION		275.569		CORE DIAMETER		54 mm			
END DATE		14/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
		0.00m to 0.20m, Filled up soil											
0.5		0.20m to 4.50m, Greyish brown clayey sand of medium plasticity				DS							
1.0													
1.5						SPT	3	3	5	8			
2.0													
2.5													
3.0						SPT	4	7	7	14			
3.5													
4.0													
4.5						SPT	4	6	12	18			
5.0							4.50m to 8.00m, Greyish brown silty sand, non-plastic						
5.5													
6.0	SPT	8	6	8	14								
6.5													
7.0													
7.5	SPT	10	13	22	35								
8.0													
8.5													
9.0	SPT	11	22	33	55								
9.5													
10.0		8.00m to 12.00m, Yellowish brown silty sand, non-plastic											
10.5						SPT	50(14cm)	-	-	REF			
11.0													
11.5													
12.0						SPT	50(12cm)	-	-	REF			

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-25	LOCATION	Clarifier	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1058.95	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10	CO-ORDINATES N	965.15	CASING DEPTH, m		2.50				
START DATE		28/01/2023	GROUND ELEVATION	276.994	CORE DIAMETER		54 mm				
END DATE		30/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 1.10m, Filled up soil		DS							
1.0											
1.5		1.10m to 4.50m, Yellowish brown silty clay of low plasticity		SPT	2	3	3	6			
2.0											
2.5											
3.0				UDS							
3.5											
4.0											
4.5				SPT	3	4	4	8			
5.0					4.50m to 6.50m, Yellowish brown clayey sand of medium plasticity with small fraction of gravels						
5.5											
6.0	SPT	6	7				8	15			
6.5											
7.0		6.50m to 9.00m, Highly weathered Very poor to poor yellowish brown silty sandstone		CR						47.00	0.00
7.5											
8.0				CR						43.00	8.00
8.5											
9.0		9.00m to 15.00m, Highly to moderately weathered, Very poor to poor reddish brown silty sandstone		CR						38.00	38.00
9.5											
10.0											
10.5											
11.0				CR						66.00	42.00
11.5											
12.0											
12.5				CR						56.00	20.00
13.0											
13.5											
14.0											
14.5											
15.0											

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-26		LOCATION		DM & PT SWGR		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1089		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.75		CO-ORDINATES N		864		CASING DEPTH, m		2.50			
START DATE		28/01/2023		GROUND ELEVATION		277.215		CORE DIAMETER		54 mm			
END DATE		01/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.38m, Filled up soil				DS							
1.0		0.38m to 4.50m, Yellowish brown silty sand, non-plastic with small fraction of gravels											
1.5						SPT	3	5	7	12			
2.0													
2.5													
3.0						UDS							
3.5						SPT	7	10	13	23			
4.0													
4.5		SPT	6	9	12	21							
5.0		4.50m to 9.00m, Yellowish brown silty clay of low plasticity with gravels											
5.5													
6.0						SPT	9	12	18	30			
6.5													
7.0													
7.5						SPT	8	13	17	30			
8.0													
8.5													
9.0		SPT	8	13	18	31							
9.5		9.00m to 15.00m, Yellowish brown clayey sand of medium plasticity with gravels											
10.0													
10.5						SPT	10	15	22	37			
11.0													
11.5													
12.0						SPT	22	50(12cm)	-	REF			
12.5													
13.0													
13.5						SPT	50(3cm)	-	-	REF			
14.0													
14.5													
15.0	SPT	50(8cm)	-	-	REF								

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-27		LOCATION		Alam Lime Storage Area		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1017		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.90		CO-ORDINATES N		822		CASING DEPTH, m		2.50			
START DATE		05/02/2023		GROUND ELEVATION		276.992		CORE DIAMETER		54 mm			
END DATE		05/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.40m, Filled up soil				DS							
1.0		0.40m to 4.50m, Greyish brown silty clay of low plasticity with gravels											
1.5						SPT	3	4	6	10			
2.0													
2.5													
3.0						SPT	5	6	8	14			
3.5													
4.0													
4.5						SPT	7	8	10	18			
5.0		4.50m to 9.00m, Greyish brown clayey sand of medium plasticity with gravels											
5.5													
6.0						SPT	15	12	16	28			
6.5						UDS							
7.0													
7.5						SPT	26	20	24	44			
8.0													
8.5													
9.0	SPT	24	34	48	82								
9.5		9.00m to 12.00m, Greyish brown silty clay of intermediate plasticity with gravels											
10.0													
10.5						SPT	22	32	50(5cm)	REF			
11.0													
11.5													
12.0						SPT	25	35	50(3cm)	REF			

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-28		LOCATION		DM Pump House		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1083		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.60		CO-ORDINATES N		818		CASING DEPTH, m		2.50			
START DATE		03/02/2023		GROUND ELEVATION		276.312		CORE DIAMETER		54 mm			
END DATE		04/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.65m, Filled up soil				DS							
1.0		0.65m to 7.50m, Greyish brown clayey sand of medium plasticity											
1.5						SPT	3	8	8	16			
2.0													
2.5													
3.0						SPT	4	3	3	6			
3.5													
4.0													
4.5						SPT	3	4	5	9			
5.0													
5.5													
6.0						SPT	8	7	8	15			
6.5													
7.0													
7.5						SPT	15	20	23	43			
8.0		7.50m to 10.50m, Yellowish brown clayey sand of medium plasticity											
8.5													
9.0						SPT	13	18	26	44			
9.5													
10.0													
10.5						SPT	50(2cm)	-	-	REF			
11.0		10.50m to 12.00m, Yellowish brown silty sand, non-plastic											
11.5													
12.0						SPT	50(12cm)	-	-	REF			

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-29		LOCATION		Clarifier Water Tank		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1036		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.60		CO-ORDINATES N		868		CASING DEPTH, m		2.50			
START DATE		08/02/2023		GROUND ELEVATION		276.112		CORE DIAMETER		54 mm			
END DATE		08/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 1.20m, Filled up soil				DS							
1.0													
1.5		1.20m to 6.00m, Yellowish brown clayey sand of medium plasticity				SPT	3	4	6	10			
2.0													
2.5													
3.0						SPT	4	5	7	12			
3.5													
4.0													
4.5						SPT	8	10	12	22			
5.0													
5.5													
6.0		SPT	5	9	9	18							
6.5		6.00m to 9.00m, Yellowish brown silty sand, non-plastic											
7.0													
7.5						SPT	6	8	9	17			
8.0													
8.5													
9.0						SPT	10	16	24	40			
9.5		9.00m to 12.00m, Yellowish brown clayey sand of high plasticity with small fraction of gravels											
10.0													
10.5						SPT	14	50(11cm)	-	REF			
11.0													
11.5													
12.0						SPT	50(14cm)	-	-	REF			

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-30		LOCATION		CT-02		TYPE OF RIG		HYDRAULIC	
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		450		DRILLING METHOD		ROTARY	
GROUND WATER TABLE		3.10		CO-ORDINATES N		958		CASING DEPTH, m		6.00	
START DATE		04-03-2023		GROUND ELEVATION		271.615		CORE DIAMETER		54 mm	
END DATE		04-03-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm	
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5	0.00m to 8.00m, Yellowish brown silty clay of low plasticity with intermittent small fraction of gravels			DS-1							
1.0											
1.5				SPT-1	2	3	5	8			
2.0				UDS-1							
2.5											
3.0				SPT-2	5	6	9	15			
3.5											
4.0											
4.5				SPT-3	4	6	6	12			
5.0											
5.5											
6.0				SPT-4	9	15	19	34			
6.5											
7.0											
7.5				SPT-5	11	17	21	38			
8.0											
8.5	8.00m to 15.00m, Yellowish brown silty sand, non-plastic										
9.0				SPT-6	50 (11cm)	-	-	REF			
9.5											
10.0											
10.5				SPT-7	50 (10cm)	-	-	REF			
11.0											
11.5											
12.0				SPT-8	50 (6cm)	-	-	REF			
12.5											
13.0											
13.5				SPT-9	50 (5cm)	-	-	REF			
14.0											
14.5											
15.0				SPT-10	50 (3cm)	-	-	REF			

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-31		LOCATION		CT-02		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		440		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		3.10		CO-ORDINATES N		822		CASING DEPTH, m		6.00			
START DATE		05-03-2023		GROUND ELEVATION		270.178		CORE DIAMETER		54 mm			
END DATE		05-03-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m, Filled up soil				DS-1							
1.0		0.50m to 3.50m, Yellowish brown silty clay of low plasticity											
1.5						SPT-1	7	8	8	16			
2.0													
2.5													
3.0						SPT-2	3	4	5	9			
3.5													
4.0		3.50m to 13.50m, Yellowish brown silty sand, non-plastic											
4.5						SPT-3	4	7	9	16			
5.0													
5.5													
6.0						SPT-4	6	9	12	21			
6.5													
7.0													
7.5						SPT-5	18	31	35	66			
8.0													
8.5													
9.0						SPT-6	50 (10cm)	-	-	REF			
9.5													
10.0													
10.5						SPT-7	50 (5cm)	-	-	REF			
11.0													
11.5													
12.0						SPT-8	50 (6cm)	-	-	REF			
12.5													
13.0													
13.5	SPT-9	50 (4cm)	-	-	REF								
14.0		13.50m to 15.00m, Yellowish brown highly weathered and very poor sand stone				CR-1					14.00	7.00	
14.5													
15.0													

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-32	LOCATION	CT-02	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	503	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.96	CO-ORDINATES N	813	CASING DEPTH, m	6.00					
START DATE		04-03-2023	GROUND ELEVATION	271.191	CORE DIAMETER	54 mm					
END DATE		04-03-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 1.00m, Filled up soil		DS-1							
1.0											
1.5		1.00m to 15.00m, Yellowish brown silty clay of low plasticity with small fraction of gravels		SPT-1	2	4	5	9			
2.0											
2.5											
3.0				SPT-2	6	7	9	16			
3.5											
4.0											
4.5				SPT-3	9	9	12	21			
5.0											
5.5											
6.0				SPT-4	10	12	13	25			
6.5											
7.0											
7.5				SPT-5	14	15	19	34			
8.0											
8.5											
9.0				SPT-6	18	40	46	86			
9.5											
10.0											
10.5				SPT-7	36	47	50 (4cm)	REF			
11.0											
11.5											
12.0				SPT-8	50 (10cm)	-	-	REF			
12.5											
13.0											
13.5				SPT-9	50 (5cm)	-	-	REF			
14.0											
14.5											
15.0					SPT-10	50 (3cm)	-	-	REF		

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-33		LOCATION		RWPH SWGR		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1164		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.75		CO-ORDINATES N		610		CASING DEPTH, m		6.00				
START DATE		20-02-2023		GROUND ELEVATION		275.118		CORE DIAMETER		54 mm				
END DATE		21-02-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.50m, Filled up soil				DS-1								
1.0		0.50m to 2.00m, Yellowish brown silty clay of intermediate plasticity												
1.5						SPT-1	3	3	3	6				
2.0														
2.5		2.00m to 12.00m, Yellowish brown silty clay of low plasticity with small fraction of gravels												
3.0						UDS-1								
3.5														
4.0														
4.5						SPT-2	2	3	5	8				
5.0														
5.5														
6.0						SPT-3	4	4	5	9				
6.5														
7.0														
7.5						SPT-4	12	16	22	38				
8.0														
8.5														
9.0						SPT-5	11	19	23	42				
9.5														
10.0														
10.5						SPT-6	10	21	31	52				
11.0														
11.5														
12.0						SPT-7	12	25	32	57				

Receipt No : 292418/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-34	LOCATION	RWPH	TYPE OF RIG		HYDRAULIC					
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1170	DRILLING METHOD	ROTARY						
GROUND WATER TABLE		1.60	CO-ORDINATES N	646	CASING DEPTH, m	6.00						
START DATE		17-02-2023	GROUND ELEVATION	275.109	CORE DIAMETER	54 mm						
END DATE		20-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm						
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.50m, Filled up soil		DS-1								
1.0		0.50m to 15.00m, Yellowish brown silty clay of low plasticity with intermittent traces of gravels										
1.5				SPT-1	2	3	2	5				
2.0												
2.5												
3.0				SPT-2	2	3	3	6				
3.5												
4.0												
4.5				UDS-1								
5.0												
5.5												
6.0				SPT-3	4	4	5	9				
6.5												
7.0												
7.5				SPT-4	8	10	17	27				
8.0												
8.5												
9.0				SPT-5	11	15	19	34				
9.5												
10.0												
10.5				SPT-6	7	17	22	39				
11.0												
11.5												
12.0	SPT-7	50 (9cm)	-	-	REF							
12.5												
13.0												
13.5	SPT-8	50 (12cm)	-	-	REF							
14.0												
14.5												
15.0	SPT-9	50 (10cm)	-	-	REF							

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-35		LOCATION		Near ADMN Bldg		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1094		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.60		CO-ORDINATES N		436		CASING DEPTH, m		6.00				
START DATE		15-02-2023		GROUND ELEVATION		275.209		CORE DIAMETER		54 mm				
END DATE		16-02-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.30m, Filled up soil				DS-1								
1.0		0.30m to 12.00m, Yellowish brown silty clay of low plasticity												
1.5						SPT-1	3	3	5	8				
2.0														
2.5														
3.0						UDS-1								
3.5														
4.0														
4.5						SPT-2	6	7	8	15				
5.0														
5.5														
6.0						SPT-3	7	9	12	21				
6.5														
7.0														
7.5						SPT-4	4	5	7	12				
8.0														
8.5														
9.0						SPT-5	8	10	12	22				
9.5														
10.0														
10.5						SPT-6	5	7	7	14				
11.0														
11.5														
12.0						SPT-7	8	9	9	18				

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-36	LOCATION	Construction Power	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	1638	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.65	CO-ORDINATES N	625	CASING DEPTH, m	6.00					
START DATE		15-02-2023	GROUND ELEVATION	275.087	CORE DIAMETER	54 mm					
END DATE		15-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.35m, Filled up soil		DS-1							
1.0											
1.5				UDS-1							
2.0											
2.5											
3.0				SPT-1	6	6	8	14			
3.5											
4.0											
4.5				SPT-2	5	7	10	17			
5.0											
5.5		0.35m to 10.00m, Yellowish brown silty clay of low plasticity									
6.0				SPT-3	6	10	12	22			
6.5											
7.0											
7.5				SPT-4	12	14	16	30			
8.0											
8.5											
9.0				SPT-5	10	17	18	35			
9.5											
10.0			SPT-6	15	20	30	50				

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-37	LOCATION	CONV 39	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1635.173	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.60	CO-ORDINATES N	1362.642	CASING DEPTH, m	6.00					
START DATE		28-02-2023	GROUND ELEVATION	277.37	CORE DIAMETER	54 mm					
END DATE		28-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 1.10m, Filled up soil		DS-1							
1.0											
1.5		1.10m to 13.50m, Yellowish brown silty clay of low plasticity with intermittent small fraction of gravels		SPT-1	5	5	6	11			
2.0											
2.5											
3.0				SPT-2	4	6	6	12			
3.5											
4.0											
4.5				SPT-3	6	7	8	15			
5.0											
5.5											
6.0				SPT-4	7	9	12	21			
6.5											
7.0											
7.5				SPT-5	8	12	15	27			
8.0											
8.5											
9.0				SPT-6	10	15	18	33			
9.5											
10.0											
10.5				SPT-7	20	38	50 (5cm)	REF			
11.0											
11.5											
12.0				SPT-8	50 (14cm)	-	-	REF			
12.5											
13.0											
13.5				SPT-9	50 (7cm)	-	-	REF			
14.0		13.50m to 15.00m, Yellowish brown highly weathered and very poor silty sandstone		CR-1						21.00	0.00
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-38	LOCATION	CONV 39	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1610	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		3.10	CO-ORDINATES N	1359	CASING DEPTH, m	6.00					
START DATE		26-02-2023	GROUND ELEVATION	276.719	CORE DIAMETER	54 mm					
END DATE		26-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.80m, Filled up soil		DS-1							
1.0											
1.5		0.80m to 2.50m, Yellowish brown silty clay of intermediate plasticity		SPT-1	4	4	6	10			
2.0				UDS-1							
2.5											
3.0		2.50m to 15.00m, Yellowish brown silty clay of low plasticity with intermittent traces of gravels		SPT-2	5	6	6	12			
3.5											
4.0											
4.5				SPT-3	7	8	8	16			
5.0											
5.5											
6.0				SPT-4	8	9	10	19			
6.5											
7.0											
7.5				SPT-5	7	10	9	19			
8.0											
8.5											
9.0				SPT-6	8	10	11	21			
9.5											
10.0											
10.5				SPT-7	9	12	14	26			
11.0											
11.5											
12.0				SPT-8	10	14	16	30			
12.5											
13.0											
13.5	SPT-9	50 (6cm)	-	-	REF						
14.0											
14.5											
15.0		SPT-10	50 (4cm)	-	-	REF					

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-39	LOCATION	CONV 39	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1519	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		3.20	CO-ORDINATES N	1361	CASING DEPTH, m		6.00				
START DATE		24-02-2023	GROUND ELEVATION	276.847	CORE DIAMETER		54 mm				
END DATE		24-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.85m, Filled up soil		DS-1							
1.0											
1.5				0.85m to 2.00m, Yellowish brown silty clay of intermediate plasticity	SPT-1	4	4	5	9		
2.0											
2.5											
3.0		2.00m to 15.00m, Yellowish brown silty clay of low plasticity with intermittent traces of gravels	SPT-2	5	6	6	12				
3.5											
4.0											
4.5			SPT-3	6	7	6	13				
5.0											
5.5											
6.0			SPT-4	7	9	10	19				
6.5											
7.0											
7.5			SPT-5	12	16	22	38				
8.0											
8.5											
9.0			SPT-6	50 (3cm)	-	-	REF				
9.5											
10.0											
10.5			SPT-7	50 (11cm)	-	-	REF				
11.0											
11.5											
12.0			SPT-8	50 (8cm)	-	-	REF				
12.5											
13.0											
13.5			SPT-9	50 (9cm)	-	-	REF				
14.0											
14.5											
15.0				SPT-10	50 (14cm)	-	-	REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-40	LOCATION		TP	TYPE OF RIG		HYDRAULIC					
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E		1407	DRILLING METHOD		ROTARY					
GROUND WATER TABLE		1.45	CO-ORDINATES N		1201	CASING DEPTH, m		2.50					
START DATE		27/01/2023	GROUND ELEVATION		276.87	CORE DIAMETER		54 mm					
END DATE		27/01/2023	CIRCULATION FLUID		WATER	DIAMETER OF HOLE		150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.65m, Filled up soil			DS								
1.0		0.65m to 4.50m, Yellowish brown silty clay of low plasticity with gravels											
1.5					SPT	8	6	9	15				
2.0													
2.5													
3.0					SPT	4	4	6	10				
3.5													
4.0													
4.5					SPT	7	8	15	23				
5.0		4.50m to 7.50m, Reddish brown clayey sand of medium plasticity with gravels											
5.5													
6.0					SPT	22	39	49	88				
6.5													
7.0													
7.5					SPT	18	42	50(3cm)	REF				
8.0		7.50m to 9.00m, Greyish brown clayey sand of medium plasticity with gravels											
8.5													
9.0					SPT	15	50(4cm)	-	REF				
9.5		9.00m to 15.00m, Highly weathered Very poor reddish brown silty sandstone			CR						24.00	0.00	
10.0													
10.5													
11.0					CR						29.00	0.00	
11.5													
12.0													
12.5					CR						36.00	0.00	
13.0													
13.5													
14.0					CR						36.00	0.00	
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-41	LOCATION	TP	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1403	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.10	CO-ORDINATES N	1297	CASING DEPTH, m	6.00					
START DATE		01-03-2023	GROUND ELEVATION	276.926	CORE DIAMETER	54 mm					
END DATE		01-03-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 1.10m, Filled up soil		DS-1							
1.0											
1.5		1.10m to 6.50m, Yellowish brown silty clay of intermediate plasticity		SPT-1	2	3	4	7			
2.0											
2.5											
3.0				SPT-2	4	4	6	10			
3.5											
4.0											
4.5				SPT-3	6	8	8	16			
5.0											
5.5											
6.0				SPT-4	8	10	12	22			
6.5											
7.0		6.50m to 15.50m, Yellowish brown clayey sand of high plasticity									
7.5				SPT-5	26	35	41	76			
8.0											
8.5											
9.0				SPT-6	25	38	50 (5cm)	REF			
9.5											
10.0											
10.5				SPT-7	33	50 (5cm)	-	REF			
11.0											
11.5											
12.0				SPT-8	45	50 (10cm)	-	REF			
12.5											
13.0											
13.5				SPT-9	50 (10cm)	-	-	REF			
14.0											
14.5											
15.0				SPT-10	50 (8cm)	-	-	REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-42	LOCATION	Stacker	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	910	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.98	CO-ORDINATES N	1271	CASING DEPTH, m	2.50					
START DATE		14/01/2023	GROUND ELEVATION	277.151	CORE DIAMETER	54 mm					
END DATE		14/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.00m to 0.19m		0.00m to 0.19m, Filled up soil									
0.5		0.19m to 4.50m, Greyish brown clayey sand of medium plasticity with gravels		DS							
1.0											
1.5				UDS							
2.0											
2.5											
3.0				SPT	7	9	13	22			
3.5											
4.0											
4.5				SPT	10	13	17	30			
5.0		4.50m to 9.50m, Yellowish brown silty clay of low plasticity with gravels									
5.5											
6.0				SPT	13	16	18	34			
6.5											
7.0											
7.5				SPT	11	20	29	49			
8.0											
8.5											
9.0				SPT	10	22	32	54			
9.5											
10.0		9.00m to 15.00m, Highly to moderately weathered, Very poor to poor brownish sandstone with thin bands of siltstones		CR						43.00	0.00
10.5											
11.0				CR						45.00	27.00
11.5											
12.0											
12.5				CR						55.00	9.00
13.0											
13.5											
14.0				CR						67.00	34.00
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-43	LOCATION	Stacker	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	913	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.70	CO-ORDINATES N	1201	CASING DEPTH, m	2.50					
START DATE		09/01/2023	GROUND ELEVATION	276.262	CORE DIAMETER	54 mm					
END DATE		10/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
		0.00m to 0.35m, Filled up soil									
0.5		0.35m to 7.50m, Yellowish brown silty clay of low plasticity with gravels		DS							
1.0											
1.5				SPT	6	5	5	10			
2.0				UDS							
2.5											
3.0				SPT	7	8	9	17			
3.5											
4.0											
4.5				SPT	5	16	18	34			
5.0											
5.5											
6.0				SPT	13	17	21	38			
6.5											
7.0											
7.5	SPT	16	50(6cm)	-	REF						
8.0		7.50m to 15.00m, Highly to moderately weathered Very poor yellowish brown silty sandstone		CR						33.00	12.00
8.5											
9.0				CR						53.00	0.00
9.5											
10.0											
10.5				CR						36.00	0.00
11.0											
11.5											
12.0				CR						39.00	8.00
12.5											
13.0											
13.5				CR						36.00	0.00
14.0											
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-44		LOCATION		Stacker		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1025		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.60		CO-ORDINATES N		1358		CASING DEPTH, m		2.50			
START DATE		14/02/2023		GROUND ELEVATION		277.5		CORE DIAMETER		54 mm			
END DATE		15/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 1.10m, Filled up soil				DS							
1.0													
1.5		1.10m to 4.50m, Yellowish brown clayey sand of medium plasticity with gravels				SPT	4	6	8	14			
2.0													
2.5													
3.0						SPT	9	13	18	31			
3.5													
4.0													
4.5						SPT	50(13cm)	-	-	REF			
5.0		4.50m to 7.50m, Highly weathered Very poor yellowish brown silty sandstone				CR					30.00	0.00	
5.5													
6.0													
6.5						CR						31.00	14.00
7.0		7.50m to 9.00m, Reddish brown silty sand, non-plastic with gravels											
7.5													
8.0		9.00m to 10.50m, Highly weathered poor yellowish brown silty sandstone											
8.5													
9.0		10.50m to 12.00m, Reddish brown silty sand, non-plastic with gravels				SPT	50(15cm)	-	-	REF			
9.5						CR						45.00	30.00
10.0													
10.5		12.00m to 15.00m, Highly weathered Very poor greyish brown silty sandstone											
11.0													
11.5													
12.0		12.00m to 15.00m, Highly weathered Very poor greyish brown silty sandstone				SPT	50(14cm)	-	-	REF			
12.5						CR						43.00	9.00
13.0													
13.5													
14.0						CR						48.00	0.00
14.5													
15.0													

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-45		LOCATION		Stacker		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1168		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.76		CO-ORDINATES N		1358		CASING DEPTH, m		2.50				
START DATE		16-02-2023		GROUND ELEVATION		277.286		CORE DIAMETER		54 mm				
END DATE		17-02-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 1.50m, Filled up soil				DS-1								
1.0														
1.5						SPT-1	3	5	9	14				
2.0		1.50m to 4.50m, Reddish brown silty sand, non-plastic												
2.5														
3.0						SPT-2	5	8	13	21				
3.5														
4.0														
4.5						SPT-3	50 (13cm)	-	-	REF				
5.0		4.50m to 15.00m, Reddish brown highly weathered and very poor to poor silty sandstone				CR						43.00	7.00	
5.5														
6.0														
6.5						CR							37.00	7.00
7.0														
7.5														
8.0						CR							53.00	21.00
8.5														
9.0														
9.5						CR							47.00	25.00
10.0														
10.5														
11.0						CR							51.00	19.00
11.5														
12.0														
12.5	CR							41.00	36.00					
13.0														
13.5														
14.0								45.00	45.00					
14.5														
15.0														

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-46		LOCATION		Stacker		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1052.484		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.40		CO-ORDINATES N		1261.144		CASING DEPTH, m		2.50			
START DATE		18/01/2023		GROUND ELEVATION		277.004		CORE DIAMETER		54 mm			
END DATE		23/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 2.00m, Filled up soil				DS							
1.0													
1.5						DS							
2.0													
2.5		2.00m to 6.50m, Yellowish brown clayey sand of medium plasticity with small fraction of gravels											
3.0						SPT	3	4	6	10			
3.5													
4.0													
4.5						SPT	5	6	6	12			
5.0													
5.5													
6.0						SPT	10	12	13	25			
6.5													
7.0		6.50m to 13.50m, Highly to moderately weathered Very poor to poor yellowish brown silty sandstone				CR						39.00	0.00
7.5													
8.0						CR						26.00	0.00
8.5													
9.0													
9.5						CR						39.00	16.00
10.0													
10.5													
11.0							53.00	30.00					
11.5													
12.0													
12.5							42.00	15.00					
13.0													
13.5													
14.0		13.50m to 15.00m, Greyish silty sand, non-plastic with gravels											
14.5													
15.0						SPT	50(5cm)	-	-	REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-47		LOCATION		Stacker		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1167.799		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.40		CO-ORDINATES N		1259.899		CASING DEPTH, m		2.50				
START DATE		19/01/2023		GROUND ELEVATION		276.939		CORE DIAMETER		54 mm				
END DATE		24/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 1.00m, Filled up soil				DS								
1.0														
1.5	1.00m to 6.00m, Yellowish brown silty sand, non-plastic with gravels					DS								
2.0														
2.5														
3.0						SPT	2	3	5	8				
3.5														
4.0														
4.5						SPT	5	6	7	13				
5.0														
5.5														
6.0						SPT	6	8	12	20				
6.5	6.00m to 10.50m, Greyish brown silty clay of low plasticity with gravels													
7.0														
7.5						SPT	11	17	22	39				
8.0														
8.5														
9.0						SPT	11	20	26	46				
9.5														
10.0														
10.5						SPT	13	22	37	59				
11.0						10.50m to 12.00m, Yellowish brown silty clay of low plasticity with gravels								
11.5														
12.0	SPT	18	32	40	72									
12.5	12.00m to 15.00m, Highly weathered Very poor yellowish brown silty sandstone					CR						48.00	0.00	
13.0														
13.5														
14.0						CR						35.00	0.00	
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
			PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-49		LOCATION		Stacker		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		972.844		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.50		CO-ORDINATES N		1259.896		CASING DEPTH, m		2.50			
START DATE		18/01/2023		GROUND ELEVATION		276.964		CORE DIAMETER		54 mm			
END DATE		23/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 2.00m, Filled up soil				DS							
1.0													
1.5						DS							
2.0													
2.5		2.00m to 6.50m Yellowish brown clayey sand											
3.0						SPT	6	9	16	25			
3.5													
4.0													
4.5						SPT	9	13	14	27			
5.0													
5.5													
6.0						SPT	10	18	20	38			
6.5													
7.0		6.50m to 10.50m, Highly weathered ,very poor yellowish brown silty sandstone				CR						94.00	0.00
7.5						CR						42.00	0.00
8.0													
8.5													
9.0		10.50m to 12.00m , Highly weathered ,very poor yellowish brown siltstone				SPT/CR	21	28	38	66		54.00	11.00
9.5													
10.0													
10.5													
11.0		12.00m to 13.50 , Highly weathered , very poor yellowish brown siltstone				SPT/CR	18	50 (3cm)		REF		50.00	13.00
11.5													
12.0													
12.5						SPT/CR	50 (13cm)			REF		31.00	17.00
13.0		13.50m to 15.00m , Highly weathered ,poor yellowish brown siltstone											
13.5													
14.0						CR						46.00	28.00
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-50	LOCATION	Stacker	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	972.828	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.30	CO-ORDINATES N	1184.637	CASING DEPTH, m		2.50				
START DATE		25/01/2023	GROUND ELEVATION	276.264	CORE DIAMETER		54 mm				
END DATE		30/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.45m ,Filled up soil		DS							
1.0		0.45m to 3.50m, Yellowish brown silty clay of high plasticity									
1.5				SPT	10	10	10	20			
2.0											
2.5											
3.0				UDS							
3.5		SPT	9	11	18	29					
4.0		3.50m to 4.50m , Yellowish brown clayey sand									
4.5		SPT	12	16	22	38					
5.0		4.50m to 15.00m , Highly to moderately weathered ,very poor yellowish brown silty sand stone		CR						56.00	10.00
5.5											
6.0											
6.5				CR						39.00	10.00
7.0											
7.5											
8.0				CR						47.00	10.00
8.5											
9.0											
9.5				CR						48.00	19.00
10.0											
10.5											
11.0				CR						43.00	0.00
11.5											
12.0											
12.5	CR						43.00	7.00			
13.0											
13.5											
14.0	CR						45.00	15.00			
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-51	LOCATION	Stacker	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	972.828	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.40	CO-ORDINATES N	1184.64	CASING DEPTH, m		2.50				
START DATE		24/01/2023	GROUND ELEVATION	276.264	CORE DIAMETER		54 mm				
END DATE		25/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.40m ,Filled up soil		DS							
1.0		0.40m to 5.00m, Yellowish brown clayey sand of high plasticity									
1.5				SPT	8	11	15	26			
2.0											
2.5											
3.0				SPT	10	13	18	31			
3.5											
4.0											
4.5				SPT	11	15	22	37			
5.0											
5.5					5.00m to 10.50m , Highly to moderately weathered ,very poor yellowish brown silty sand stone		CR				
6.0	CR									42.00	7.00
6.5											
7.0											
7.5											
8.0	CR									36.00	24.00
8.5											
9.0											
9.5	SPT/CR	50 (14cm)						REF		41.00	22.00
10.0											
10.5											
11.0		10.50m to 12.00m , Highly weathered , poor brownish gray silty sand stone		SPT/CR	50 (9cm)			REF		45.00	42.00
11.5											
12.0											
12.5		12.0m to 15.00m, Slightly weathered , very poor brownish red silty sandstone		CR						46.00	46.00
13.0											
13.5											
14.0				CR						79.00	21.00
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-52		LOCATION		Stacker		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1241.014		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		3.00		CO-ORDINATES N		1188.314		CASING DEPTH, m		2.50			
START DATE		25/01/2023		GROUND ELEVATION		276.3		CORE DIAMETER		54 mm			
END DATE		27/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.45m ,Filled up soil				DS							
1.0		0.45m to 2.50m , Reddish brown silty sand non-plastic											
1.5						SPT	5	5	7	12			
2.0													
2.5						UDS							
3.0		2.50m to 4.50m , Grayish brown clayey sand of high plasticity				SPT	5	6	10	16			
3.5													
4.0													
4.5						SPT	5	7	12	19			
5.0		4.50m to 7.50m , Yellowish brown silty clay of low plasticity											
5.5													
6.0						SPT	8	14	21	35			
6.5													
7.0													
7.5						SPT	10	16	23	39			
8.0		7.50m to 12.00m , Reddish brown clayey sand of medium plasticity with fraction of gravels											
8.5													
9.0						SPT	12	18	25	43			
9.5													
10.0													
10.5						SPT	25	50 (13cm)		REF			
11.0													
11.5													
12.0						SPT	27	50 (11cm)		REF			
12.5		12.00m to 15.00m , Highly weathered, very poor yellowish brown silty sandstone				CR					41.00	0.00	
13.0													
13.5													
14.0						SPT/CR	50 (13cm)			REF		16.00	10.00
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-53		LOCATION		Stacker		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1135.509		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.40		CO-ORDINATES N		1187.785		CASING DEPTH, m		2.50				
START DATE		24/01/2023		GROUND ELEVATION		276.057		CORE DIAMETER		54 mm				
END DATE		25/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.45m ,Filled up soil				DS								
1.0		0.45m to 7.50m, Yellowish brown silty sand non-plastic with traces of gravels												
1.5						SPT	2	3	3	6				
2.0														
2.5														
3.0						SPT	3	6	9	15				
3.5														
4.0														
4.5						SPT	3	4	7	11				
5.0														
5.5														
6.0						SPT	10	14	19	33				
6.5														
7.0														
7.5						SPT	18	25	36	61				
8.0		CR							44.00	0.00				
8.5														
9.0														
9.5		CR							48.00	0.00				
10.0														
10.5														
11.0		CR							54.00	0.00				
11.5														
12.0														
12.5		CR							44.00	26.00				
13.0														
13.5														
14.0		CR							70.00	50.00				
14.5														
15.0														

Job No.: MK/01/03-23

100 | PAGE

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-55		LOCATION		Lime Handling		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1002		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		2.50		CO-ORDINATES N		1118		CASING DEPTH, m		2.50			
START DATE		04/01/2023		GROUND ELEVATION		276.526		CORE DIAMETER		54 mm			
END DATE		04/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 5.00m, Yellowish brownish clayey sand of medium plasticity with gravels											
1.5						UDS/SPT	3	2	6	8			
2.0													
2.5													
3.0						SPT	3	5	7	12			
3.5													
4.0													
4.5						SPT	11	15	21	36			
5.0													
5.5		5.00m to 7.50m, Greyish brown silty sand, non-plastic with gravels											
6.0						SPT	14	20	28	48			
6.5													
7.0													
7.5		SPT	50(11cm)	-	-	REF							
8.0		7.50m to 12.00m, Highly to moderately weathered, very poor greyish brown sandstone				CR					61.00	22.00	
8.5													
9.0													
9.5						CR						39.00	18.00
10.0													
10.5													
11.0						CR						35.00	0.00
11.5													
12.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-56		LOCATION		Lime Handeling		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		1181		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.45		CO-ORDINATES N		1118		CASING DEPTH, m		2.50				
START DATE		16/01/2023		GROUND ELEVATION		276.432		CORE DIAMETER		54 mm				
END DATE		17/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.25m , Filled up soil				DS								
1.0		0.25 to 6.00m , Yellowish brown silty sand non-plastic												
1.5						SPT	5	6	6	12				
2.0														
2.5														
3.0						SPT	6	7	13	20				
3.5														
4.0														
4.5						SPT	8	12	12	24				
5.0														
5.5														
6.0						SPT	18	22	28	50				
6.5		6.00m to 12.00m , Yellowish brown clayey sand of high plasticity with traces of gravels												
7.0														
7.5						SPT	19	25	32	57				
8.0														
8.5														
9.0						SPT	16	22	50 (2cm)	REF				
9.5														
10.0														
10.5						SPT	50 (6cm)			REF				
11.0														
11.5														
12.0		SPT	50 (8cm)			REF								

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-57	LOCATION		Lime Handeling	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		12.00	CO-ORDINATES E		1298	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.83	CO-ORDINATES N		1115	CASING DEPTH, m		2.50				
START DATE		20/01/2023	GROUND ELEVATION		276.623	CORE DIAMETER		54 mm				
END DATE		23/01/2023	CIRCULATION FLUID		WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
		0.00m to 0.15m , Filled up soil										
0.5		0.15m to 4.50m , Grayish brown clayey sand of high plasticity with traces of gravels			DS							
1.0												
1.5					SPT	4	6	8	14			
2.0												
2.5												
3.0					SPT	3	6	8	14			
3.5												
4.0												
4.5					SPT	20	20	19	39			
5.0						4.50m to 10.50m , Yellowish brown silty sand non-plastic						
5.5												
6.0	SPT	30	45	50 (4cm)					REF			
6.5												
7.0												
7.5	SPT	35	50 (5cm)						REF			
8.0												
8.5												
9.0	SPT	50 (10cm)							REF			
9.5												
10.0												
10.5		SPT	50 (4cm)			REF						
11.0		10.50m to 12.00m , Yellowish brown highly weathered very poor silty sandstone			CR						44.00	12.00
11.5												
12.0												

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD								
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-58	LOCATION	Clarifier	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1068	DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.40	CO-ORDINATES N	895	CASING DEPTH, m		2.50			
START DATE		04/02/2023	GROUND ELEVATION	276.654	CORE DIAMETER		54 mm			
END DATE		06/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
		0.00m to 0.20m , Filled up soil								
0.5		0.20m to 4.50m , Yellowish brown clayey sand of high plasticity with traces of gravels	DS							
1.0										
1.5			SPT	3	5	5	10			
2.0										
2.5										
3.0			SPT	2	2	2	4			
3.5										
4.0										
4.5			SPT	3	4	6	10			
5.0		4.50m to 7.50m , Yellowish brown silty sand non-plastic								
5.5										
6.0			SPT	5	5	9	14			
6.5										
7.0										
7.5			SPT	3	10	18	28			
8.0		7.50m to 15.00m , Grayish brown silty clay of intermediate plasticity with traces of gravels								
8.5										
9.0			SPT	12	28	38	66			
9.5										
10.0										
10.5			SPT	21	38	46	84			
11.0										
11.5										
12.0			SPT	16	38	50 (4cm)	REF			
12.5										
13.0										
13.5			SPT	18	50 (7cm)		REF			
14.0										
14.5										
15.0			SPT	50 (8cm)			REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-59	LOCATION	FGD U#5	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	20.00	CO-ORDINATES E	849.209	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	2.10	CO-ORDINATES N	1338.408	CASING DEPTH, m		2.50			
START DATE	01-03-2023	GROUND ELEVATION	277.286	CORE DIAMETER		54 mm			
END DATE	02-03-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.50m, Filled up soil	DS-1						
1.0		0.50m to 3.50m, Yellowish brown silty clay of low plasticity							
1.5			SPT-1	6	9	9	18		
2.0									
2.5									
3.0			SPT-2	8	8	18	26		
3.5									
4.0		3.50m to 4.50m, Yellowish brown clayey sand of medium plasticity with traces of gravels							
4.5			SPT-3	7	17	19	36		
5.0		4.50m to 7.50m, Brownish highly weathered and very poor sand stone	CR					42.00	11.00
5.5									
6.0									
6.5			CR					37.00	0.00
7.0									
7.5		7.50m to 12.00m, Brownish slightly weathered and very poor sand stone	CR					75.00	77.00
8.0									
8.5									
9.0			CR					58.00	13.00
9.5									
10.0									
10.5			CR					80.00	47.00
11.0		12.00m to 20.00m, Brownish slightly weathered and very poor to fair silt stone							
11.5									
12.0			CR					70.00	17.00
12.5									
13.0									
13.5									
14.0			CR					81.00	9.00
14.5									
15.0									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-59		LOCATION		FGD U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		849.209		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10		CO-ORDINATES N		1338.408		CASING DEPTH, m		2.50				
START DATE		01-03-2023		GROUND ELEVATION		277.286		CORE DIAMETER		54 mm				
END DATE		02-03-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
	15.5	12.00m to 20.00m, Brownish slightly weathered and very poor to fair silt stone				CR						95.00	57.00	
	16.0													
	16.5													
	17.0													
	17.5													
	18.0													
	18.5													
	19.0													
	19.5													
	20.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD													
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.												
BOREHOLE NO.		DBH-64		LOCATION		Pipe Trestle		TYPE OF RIG		HYDRAULIC					
BOREHOLE DEPTH, m		10.00		CO-ORDINATES E		392		DRILLING METHOD		ROTARY					
GROUND WATER TABLE		9.30		CO-ORDINATES N		1673		CASING DEPTH, m		6.00					
START DATE		25-02-2023		GROUND ELEVATION		281.18		CORE DIAMETER		54 mm					
END DATE		25-02-2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE				
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %		
0.5		0.00m to 0.30m, Filled up soil				DS-1									
1.0															
1.5		SPT-1	3	5	7	12									
2.0															
2.5															
3.0		SPT-2	4	7	11	18									
3.5															
4.0															
4.5		SPT-3	7	12	13	25									
5.0															
5.5		5.00m to 10.00m, Yellowish brown silty sand, non-plastic				SPT-4	50 (7cm)	-	-	REF					
6.0															
6.5															
7.0															
7.5						SPT-5	50 (2cm)	-	-	REF					
8.0															
8.5															
9.0						SPT-6	50 (3cm)	-	-	REF					
9.5															
10.0						SPT-7	50 (2cm)	-	-	REF					

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-65	LOCATION	Ash Trestle	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	454	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		9.00	CO-ORDINATES N	1622	CASING DEPTH, m		6.00				
START DATE		26-02-2023	GROUND ELEVATION	281.212	CORE DIAMETER		54 mm				
END DATE		26-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.45m, Filled up soil		DS-1							
1.0		0.45m to 10.00m, Yellowish brown silty sand, non-plastic with small fraction of gravels									
1.5				SPT-1	11	33	40	73			
2.0											
2.5											
3.0				SPT-2	44	50 (6cm)	-	REF			
3.5											
4.0											
4.5				SPT-3	50 (3cm)	-	-	REF			
5.0											
5.5											
6.0				SPT-4	50 (12cm)	-	-	REF			
6.5											
7.0											
7.5				SPT-5	50 (8cm)	-	-	REF			
8.0											
8.5											
9.0				SPT-6	50 (9cm)	-	-	REF			
9.5											
10.0				SPT-7	50 (5cm)	-	-	REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-66	LOCATION	Ash Trestle	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	507.288	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		3.30	CO-ORDINATES N	1465.29	CASING DEPTH, m	2.50					
START DATE		24-02-2023	GROUND ELEVATION	281.916	CORE DIAMETER	54 mm					
END DATE		25-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.80m, Filled up soil		DS-1							
1.0											
1.5		0.80m to 5.00m, Yellowish brown clayey sand of high plasticity		SPT-1	4	6	8	14			
2.0											
2.5											
3.0				SPT-2	7	8	11	19			
3.5											
4.0											
4.5				SPT-3	10	14	18	32			
5.0											
5.5		5.00m to 10.00m, Yellowish brown silty clay of intermediate plasticity									
6.0				SPT-4	9	13	20	33			
6.5											
7.0											
7.5				SPT-5	12	16	23	39			
8.0											
8.5											
9.0				SPT-6	10	15	29	44			
9.5											
10.0				SPT-7	50 (4cm)	-	-	REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-67	LOCATION	Ash Trestle	TYPE OF RIG		HYDRAULIC					
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	566	DRILLING METHOD	ROTARY						
GROUND WATER TABLE		3.10	CO-ORDINATES N	1393	CASING DEPTH, m	2.50						
START DATE		28-02-2023	GROUND ELEVATION	281.825	CORE DIAMETER	54 mm						
END DATE		28-02-2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm						
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 1.00m, Filled up soil		DS-1								
1.0												
1.5		1.00m to 3.50m, Yellowish brown clayey sand of high plasticity		SPT-1	6	9	13	22				
2.0												
2.5												
3.0				SPT-2	5	11	14	25				
3.5												
4.0		3.50m to 9.00m, Yellowish brown silty clay of intermediate plasticity										
4.5				SPT-3	10	50 (10cm)	-	REF				
5.0												
5.5												
6.0				SPT-4	10	16	23	39				
6.5												
7.0												
7.5				SPT-5	12	22	27	49				
8.0												
8.5												
9.0				SPT-6	50 (8cm)	-	-	REF				
9.5		9.00m to 10.00m, Reddish brown slightly weathered and fair sand stone		CR-1						76.00	73.00	
10.0												

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-69		LOCATION		GT U#6		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		459.56		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.20		CO-ORDINATES N		1153.69		CASING DEPTH, m		2.50				
START DATE		12/12/2022		GROUND ELEVATION		275.309		CORE DIAMETER		54 mm				
END DATE		12/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.50m, Filled up soil				DS								
1.0		0.50m to 5.00m, Yellowish brownish silty clay of low plasticity with gravels												
1.5						SPT	2	3	3	6				
2.0														
2.5														
3.0						SPT	1	2	2	4				
3.5														
4.0														
4.5						SPT	3	5	7	12				
5.0														
5.5		5.00m to 7.50m, Greyish brown silty clay of intermediate plasticity with gravels												
6.0						SPT	5	7	7	14				
6.5														
7.0														
7.5		SPT	12	20	32	52								
8.0		7.50m to 9.50m, Yellowish brownish clayey sand of high plasticity with gravels												
8.5														
9.0						SPT	13	22	35	57				
9.5														
10.0		9.50m to 10.50m, Yellowish brownish silty sand, non-plastic with gravels												
10.5						SPT	15	25	40	65				
11.0		10.50m to 12.00m, Highly to moderately weathered, very poor yellowish brown sandstone				CR						35.00	0.00	
11.5														
12.0														
12.5						CR						68.00	21.00	
13.0		12.00m to 15.00m, Slightly weathered, fair sandstone with thin bands of shales and siltstone												
13.5														
14.0						CR						83.00	74.00	
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-70	LOCATION	GT U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	440.56	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.20	CO-ORDINATES N	1103.2	CASING DEPTH, m	2.00					
START DATE		21/12/2022	GROUND ELEVATION	276.195	CORE DIAMETER	54 mm					
END DATE		22/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil		DS							
1.0		0.50m to 9.00m, Yellowish brown clayey sand of high plasticity with gravels									
1.5				SPT	4	6	6	12			
2.0											
2.5											
3.0				SPT	6	3	1	4			
3.5											
4.0											
4.5				SPT	6	7	9	16			
5.0											
5.5											
6.0				SPT	4	4	4	8			
6.5											
7.0											
7.5				SPT	18	29	40	69			
8.0											
8.5											
9.0				SPT	50(12cm)	-	-	REF			
9.5		9.00m to 12.00m, Greyish brown silty sand, non-plastic with gravels									
10.0											
10.5				SPT	50(5cm)	-	-	REF			
11.0											
11.5		12.00m to 15.00m, Slightly weathered, very poor reddish brown sandstone									
12.0	SPT			30	50(2cm)	-	REF				
12.5	CR								69.92	0.00	
13.0											
13.5											
14.0	CR								72.00	24.00	
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
			PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-71		LOCATION		GT U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		457		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.80		CO-ORDINATES N		1305		CASING DEPTH, m		2.00				
START DATE		01/12/2022		GROUND ELEVATION		276.52		CORE DIAMETER		54 mm				
END DATE		05/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 1.30m, Filled up soil				DS								
1.0						UDS/SPT	3	4	6	10				
1.5														
2.0		1.30m to 2.60m, Yellowish brown silty sand, non-plastic with gravels												
2.5						SPT	6	8	10	18				
3.0														
3.5		2.60m to 4.00m, Yellowish brown silty clay of low plasticity												
4.0						SPT	8	12	18	30				
4.5														
5.0		4.00m to 7.00m, Yellowish brown clayey sand of high plasticity												
5.5						SPT	12	22	32	54				
6.0														
6.5														
7.0						SPT/DS	50(8cm)	-	-	REF				
7.5						CR						8.00	0.00	
8.0		7.00m to 11.50m, Completely to highly weathered, very poor yellowish brown to greyish sandstone with no intact pieces												
8.5														
9.0						SPT/CR	37	50(10cm)	-	REF		8.00	0.00	
9.5														
10.0														
10.5						CR						39.00	8.00	
11.0		11.50m to 15.00m, Highly weathered, poor to very poor yellowish brown sand stone with thin bands of shales observed and siltstone												
11.5														
12.0						CR						21.00	0.00	
12.5														
13.0														
13.5						CR						45.00	26.00	
14.0														
14.5														
15.0						CR						50.00	24.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
			PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.			DBH-72		LOCATION		TG U#5		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m			15.00		CO-ORDINATES E		487		DRILLING METHOD		ROTARY			
GROUND WATER TABLE			1.70		CO-ORDINATES N		1300		CASING DEPTH, m		2.50			
START DATE			01/12/2022		GROUND ELEVATION		276.578		CORE DIAMETER		54 mm			
END DATE			02/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE					SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
								N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		Filled up soil					DS							
1.0		0.50m to 1.55m, Yellowish brown poorly graded silty sand, non-plastic					SPT	6	6	9	15			
1.5														
2.0		1.55m to 5.50m, Yellowish brown silty clay of low plasticity												
2.5														
3.0														
3.5														
4.0							SPT	15	14	20	34			
4.5														
5.0														
5.5							SPT	50(10cm)	-	-	REF			
6.0		5.50m to 7.05m, Greyish brown poorly graded silty sand, non-plastic with traces of gravels												
6.5														
7.0							SPT	50(5cm)	-	-	REF			
7.5		7.05m to 8.50m, Highly weathered, very poor, brownish to whitish sandstone					SPT/CR	50(11cm)	-	-	REF		25.33	
8.0													0.00	
8.5														
9.0		8.50m to 11.50m, Yellowish brown to greyish clayey sand of high plasticity												
9.5														
10.0							SPT	50(9cm)	-	-	REF			
10.5														
11.0														
11.5							SPT	50(8cm)	-	-	REF			
12.0		11.50m to 15.00m, Moderately weathered to slightly weathered, very poor to good, greyish brown sandstone with thin bands of shales					CR						68.00	
12.5														
13.0														
13.5							CR						84.00	
14.0													38.66	
14.5														
15.0							CR					84.00	76.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-73		LOCATION		TG U#5		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		500		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.40		CO-ORDINATES N		1270		CASING DEPTH, m		2.50			
START DATE		03/12/2022		GROUND ELEVATION		275.292		CORE DIAMETER		54 mm			
END DATE		07/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 2.00m, Yellowish brown clayey sand of high plasticity with small fraction of gravels											
1.5						SPT	5	5	7	12			
2.0													
2.5		2.00m to 13.50m, Yellowish brown silty clay of intermediate plasticity with small fraction of gravels											
3.0						SPT/UDS	7	9	14	23			
3.5													
4.0													
4.5						SPT	15	25	30	55			
5.0													
5.5													
6.0						SPT	50(9cm)	-	-	REF			
6.5													
7.0													
7.5						SPT	30	50(13cm)	-	REF			
8.0													
8.5													
9.0						SPT	50(11cm)	-	-	REF			
9.5													
10.0													
10.5	SPT	50(10cm)	-	-	REF								
11.0													
11.5													
12.0	SPT	50(8cm)	-	-	REF								
12.5													
13.0													
13.5	SPT	50(9cm)	-	-	REF								
14.0		13.50m to 15.00m, Highly weathered, very poor yellowish brown sandstone				CR					28.00	0.00	
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD								
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-73	LOCATION	TG U#5	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	500	DRILLING METHOD	ROTARY				
GROUND WATER TABLE		1.40	CO-ORDINATES N	1270	CASING DEPTH, m	2.50				
START DATE		03/12/2022	GROUND ELEVATION	275.292	CORE DIAMETER	54 mm				
END DATE		07/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE			ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
15.5		15.00m to 20.00m, Highly to slightly weathered, very poor yellowish brown sandstone		CR					71.00	9.00
16.0										
16.5										
17.0				CR					48.00	0.00
17.5										
18.0										
18.5				CR					74.00	0.00
19.0										
19.5										
20.0				CR					92.00	0.00

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-74	LOCATION	TG U#5	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	482	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.30	CO-ORDINATES N	1275	CASING DEPTH, m		2.00				
START DATE		07/12/2022	GROUND ELEVATION	276.101	CORE DIAMETER		54 mm				
END DATE		08/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		Filled up soil		DS							
1.0		0.50m to 6.00m, Yellowish brown to greyish silty clay of intermediate plasticity with gravels									
1.5				SPT/UDS	5	6	8	14			
2.0											
2.5											
3.0				SPT	10	12	12	24			
3.5											
4.0											
4.5				SPT	11	20	29	49			
5.0											
5.5											
6.0				SPT	18	50(12cm)	-	REF			
6.5		6.00m to 9.00m, Yellowish brown to whitish silty clay of intermediate plasticity with gravels									
7.0											
7.5				SPT	15	22	35	57			
8.0											
8.5											
9.0				SPT	18	25	40	65			
9.5		9.00m to 9.50m, Yellowish brown silty sand, non-plastic									
10.0		9.50m to 10.50m, Highly weathered, very poor greyish brown sandstone		CR/SPT	50(10cm)			REF		16.00	0.00
10.5											
11.0		10.50m to 12.00m, Yellowish brown silty sand, non-plastic with gravels									
11.5											
12.0				SPT	50(13cm)	-	-	REF			
12.5		12.13m to 13.50m, Highly weathered, very poor yellowish brown sandstone		CR						31.00	0.00
13.0											
13.5											
14.0		13.50m to 15.00m, Highly weathered, poor yellowish brown sandstone		CR						42.00	28.00
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-75	LOCATION	TG U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	492	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.50	CO-ORDINATES N	1104	CASING DEPTH, m		2.50				
START DATE		12/12/2022	GROUND ELEVATION	276.231	CORE DIAMETER		54 mm				
END DATE		13/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		Filled up soil		DS							
1.0		0.50m to 7.50m, Yellowish greyish to brownish silty clay of intermediate plasticity with gravels									
1.5				SPT	8	7	9	16			
2.0											
2.5											
3.0				SPT	3	2	2	4			
3.5											
4.0											
4.5				SPT	5	6	11	17			
5.0											
5.5											
6.0				SPT	10	20	34	54			
6.5											
7.0											
7.5				SPT	50(13cm)	-	-	REF			
8.0		7.50m to 10.50m, Yellowish greyish to brownish silty sand, non-plastic with gravels									
8.5											
9.0				SPT	50(7cm)	-	-	REF			
9.5											
10.0		10.50m to 12.00m, Highly weathered, very poor yellowish brown sandstone									
10.5	SPT			50(12cm)	-	-	REF				
11.0	CR								38.00	20.00	
11.5		12.00m to 15.00m, Moderately weathered, very poor to poor reddish brown sandstone									
12.0											
12.5	CR								52.00	50.00	
13.0											
13.5											
14.0											
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-75	LOCATION	TG U#6	TYPE OF RIG				HYDRAULIC		
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	492	DRILLING METHOD				ROTARY		
GROUND WATER TABLE		2.50	CO-ORDINATES N	1104	CASING DEPTH, m				2.50		
START DATE		12/12/2022	GROUND ELEVATION	276.231	CORE DIAMETER				54 mm		
END DATE		13/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE				150 mm		
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
		15.00m to 16.50m, Highly weathered, very poor reddish brown sandstone	CR						50.00	9.00	
		16.50m to 20.00m, slightly to fresh weathered, poor to excellent reddish brown sandstone	CR						54.00	32.00	
			CR						74.00	48.00	
			CR								
			CR						94.00	92.00	

Receipt No : 292420/2024/PS-HQ-HRM

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		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-76	LOCATION	TG U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	477	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		3.60	CO-ORDINATES N	1077	CASING DEPTH, m	2.50					
START DATE		12/12/2022	GROUND ELEVATION	276.543	CORE DIAMETER	54 mm					
END DATE		15/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m, Filled up soil		DS							
1.0		0.50m to 1.50m, Silty sand Non-plastic									
1.5				SPT	6	7	9	16			
2.0		1.50m to 3.50, Grayish brown silty clay of intermediate plasticity									
2.5											
3.0				SPT	4	5	7	12			
3.5											
4.0		3.50m to 9.50m, Yellowish brown silty clay of intermediate plasticity									
4.5				SPT	4	4	7	11			
5.0											
5.5											
6.0				SPT	6	6	8	14			
6.5											
7.0											
7.5				SPT	11	13	18	31			
8.0											
8.5											
9.0				SPT	10	20	35	55			
9.5											
10.0		9.50m to 15.00m, Highly to moderately weathered, very poor sandstone with shale bands		CR						33.00	0.00
10.5											
11.0				CR						46.00	15.00
11.5											
12.0											
12.5				CR						59.00	20.00
13.0											
13.5											
14.0				CR						59.00	7.00
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD								
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-76	LOCATION	TG U#6	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	477	DRILLING METHOD	ROTARY				
GROUND WATER TABLE		3.60	CO-ORDINATES N	1077	CASING DEPTH, m	2.50				
START DATE		12/12/2022	GROUND ELEVATION	276.543	CORE DIAMETER	54 mm				
END DATE		15/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		15.00m to 20.00m , Higly to slightly weathered, very poor to fair yellowish brown sandstone	CR						72.00	48.00
16.0			CR						64.00	56.00
16.5										
17.0										
17.5										
18.0			CR						33.00	28.00
18.5										
19.0										
19.5			CR						90.00	0.00
20.0										

Receipt No : 292420/2024/PS-HQ-HRM

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M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-77	LOCATION	DG U#6	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	10.00	CO-ORDINATES E	463	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	1.90	CO-ORDINATES N	1361	CASING DEPTH, m		2.50			
START DATE	05/12/2022	GROUND ELEVATION	276.051	CORE DIAMETER		54 mm			
END DATE	06/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.50m, Filled up soil	DS						
1.0		0.50m to 1.95m, Yellowish brown silty sand ,Non-plastic							
1.5			SPT/UDS	7	6	7	13		
2.0									
2.5		1.95m to 6.00m, Yellowish brown clayey sand of high plasticity with small fraction of gravels							
3.0			SPT	30	50(10cm)	-	REF		
3.5									
4.0									
4.5			SPT	50 (5cm)	-	-	REF		
5.0									
5.5									
6.0			SPT	50 (6cm)	-	-	REF		
6.5		6.00m to 7.50m, Completely weathered, very poor brownish sandstone fragments	SPT/CR	50 (2cm)	-	-	REF	-	4.00
7.0									
7.5		7.50m to 9.00m, Completely weathered, very poor brownish sandstone	SPT/CR	50 (4cm)	-	-	REF	-	4.00
8.0									
8.5		9.00m to 10.00m, Slightly weathered, very poor sandstone							
9.0									
9.5			CR						
10.0									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-78		LOCATION		Service Building		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		513		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.40		CO-ORDINATES N		1343		CASING DEPTH, m		2.00			
START DATE		07/12/2022		GROUND ELEVATION		276.352		CORE DIAMETER		54 mm			
END DATE		08/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		1.00m to 4.00m, Yellowish brown silty clay of intermediate plasticity				SPT	9	13	16	29			
1.5													
2.0													
2.5						SPT/UDS	10	17	29	46			
3.0													
3.5													
4.0		4.00m to 5.50m, Yellowish brown silty sand Non-plastic				SPT	23	50(2cm)	-	REF			
4.5													
5.0													
5.5		5.50m to 7.00m, Yellowish brown clayey sand of high plasticity				SPT	37	50(8cm)	-	REF			
6.0													
6.5													
7.0		7.00m to 15.00m, Highly to slightly weathered, very poor to excellent yellowish brown sandstone with shale content				SPT	35	50(8cm)	-	REF			
7.5						CR						42.00	0.00
8.0													
8.5													
9.0						CR						84.00	36.00
9.5													
10.0													
10.5						CR						62.00	8.00
11.0													
11.5													
12.0		CR						53.00	9.00				
12.5													
13.0													
13.5		CR						74.00	51.00				
14.0													
14.5													
15.0								84.00	76.00				

Receipt No : 292420/2024/PS-HQ-HRM

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		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-79	LOCATION	TG U#5	TYPE OF RIG				HYDRAULIC		
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	520	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.60	CO-ORDINATES N	1300	CASING DEPTH, m	2.00					
START DATE		09/12/2022	GROUND ELEVATION	276.302	CORE DIAMETER	54 mm					
END DATE		10/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil		DS							
1.0		0.50m to 3.00m ,Yellowish brown silty clay of low plasticity with fraction of gravels									
1.5				SPT	5	9	12	21			
2.0											
2.5											
3.0				SPT	10	50(1cm)	-	REF			
3.5		3.00m to 6.00m Yellowish brown clayey sand									
4.0											
4.5				SPT	25	50(10cm)	-	REF			
5.0											
5.5											
6.0		SPT	30	50(8cm)	-	REF					
6.5		6.00m to 15.00m , Highly to moderately weathered, very poor to poor brown sandstone		CR						28.00	0.00
7.0											
7.5											
8.0				CR						18.00	8.00
8.5											
9.0											
9.5				CR						44.00	30.00
10.0											
10.5											
11.0				CR						50.00	34.00
11.5											
12.0											
12.5		CR						60.00	26.00		
13.0											
13.5											
14.0		CR						56.00	31.00		
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

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		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-80		LOCATION		TG U#5		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		520		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.20		CO-ORDINATES N		1240		CASING DEPTH, m		2.50			
START DATE		15/12/2022		GROUND ELEVATION		276.093		CORE DIAMETER		54 mm			
END DATE		16/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0	0.50m to 6.50m, Yellowish brown silty clay of intermediate plasticity												
1.5						SPT	7	10	15	25			
2.0													
2.5													
3.0						SPT	12	15	19	34			
3.5													
4.0													
4.5						SPT	11	17	23	40			
5.0													
5.5													
6.0						SPT	13	18	35	53			
6.5													
7.0	6.50m to 13.50m, Highly to moderately weathered, very poor to fair brown sandstone					CR						57.00	12.00
7.5						CR						60.00	58.00
8.0													
8.5													
9.0						CR						48.00	9.00
9.5													
10.0													
10.5						CR						57.00	34.00
11.0													
11.5													
12.0						CR						43.00	0.00
12.5													
13.0													
13.5													
14.0	13.50m to 20.00m, slightly weathered, poor brown sandstone					CR						62.00	39.00
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-80	LOCATION	TG U#5	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	520	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.20	CO-ORDINATES N	1240	CASING DEPTH, m	2.50					
START DATE		15/12/2022	GROUND ELEVATION	276.093	CORE DIAMETER	54 mm					
END DATE		16/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		13.50m to 20.00m, Highly to slightly weathered, very poor to poor brown sandstone		CR						48.00	44.00
16.0											
16.5											
17.0				CR						30.00	18.00
17.5											
18.0											
18.5				CR						52.00	48.00
19.0											
19.5											
20.0				CR					86.00	33.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-81		LOCATION		TG U#6 <th colspan="2">TYPE OF RIG</th> <td colspan="2">HYDRAULIC</td>		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		520		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.97		CO-ORDINATES N		1162		CASING DEPTH, m		2.50				
START DATE		23/12/2022		GROUND ELEVATION		276.688		CORE DIAMETER		54 mm				
END DATE		24/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.50m, Filled up soil				DS								
1.0		0.50m to 12.50m, Yellowish brownish clayey sand of high plasticity with gravels												
1.5						SPT	2	3	3	6				
2.0														
2.5														
3.0						SPT	2	3	5	8				
3.5														
4.0														
4.5						SPT	3	4	6	10				
5.0														
5.5														
6.0						SPT	5	7	8	15				
6.5														
7.0														
7.5						SPT	15	50(13cm)	-	REF				
8.0														
8.5														
9.0						SPT	18	50(7cm)	-	REF				
9.5														
10.0														
10.5						SPT	20	50(5cm)	-	REF				
11.0														
11.5														
12.0						SPT	25	50(2cm)	-	REF				
12.5		SPT/CR	40	50(2cm)	-	REF			39.00	0.00				
13.0		12.00m to 15.00m, Highly to moderately weathered, very poor greyish sandstone				CR					51.00	13.00		
13.5														
14.0														
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-81		LOCATION		TG U#6		TYPE OF RIG		HYDRAULIC	
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		520		DRILLING METHOD		ROTARY	
GROUND WATER TABLE		2.97		CO-ORDINATES N		1162		CASING DEPTH, m		2.50	
START DATE		23/12/2022		GROUND ELEVATION		276.688		CORE DIAMETER		54 mm	
END DATE		24/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm	
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5	15.00m to 20.00m, Slightly weathered, very poor to fair greyish brown sandstone			CR						71.00	22.00
16.0											
16.5											
17.0											
17.5											
18.0											
18.5											
19.0											
19.5											
20.0				CR						88.00	68.00

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-82		LOCATION		TG U#6		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		484		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.00		CO-ORDINATES N		1174		CASING DEPTH, m		2.50			
START DATE		08/12/2022		GROUND ELEVATION		276.774		CORE DIAMETER		54 mm			
END DATE		11/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 4.50m, Yellowish brown clayey sand of medium plasticity											
1.5						SPT	3	3	4	7			
2.0													
2.5													
3.0						SPT	4	4	5	9			
3.5													
4.0													
4.5						SPT	5	6	6	12			
5.0		4.50m to 6.50m, Yellowish brownish silty clay of intermediate plasticity with small fraction of gravels											
5.5													
6.0						SPT	6	8	10	18			
6.5													
7.0		6.50m to 10.50m, Yellowish greyish silty clay of intermediate plasticity with small fraction of gravels											
7.5						SPT	10	14	20	34			
8.0													
8.5													
9.0						SPT	12	18	32	50			
9.5													
10.0													
10.5						SPT	12	50(11cm)	-	REF			
11.0		10.50m to 20.00m, Highly to moderately weathered, very poor to poor yellowish brown silty sandstone				CR					34.00	15.00	
11.5													
12.0													
12.5						CR						42.00	18.00
13.0													
13.5													
14.0						CR						66.00	28.00
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD								
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-82	LOCATION	TG U#6	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	484	DRILLING METHOD	ROTARY				
GROUND WATER TABLE		1.00	CO-ORDINATES N	1174	CASING DEPTH, m	2.50				
START DATE		08/12/2022	GROUND ELEVATION	276.774	CORE DIAMETER	54 mm				
END DATE		11/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE			ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
		11.00m to 20.00m, Slightly weathered, very poor to fair yellowish brown silty sandstone		CR					84.00	66.00
				CR					68.00	59.00
				CR					78.00	65.00
				CR					88.00	7.50

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-83		LOCATION		TG U#6		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		512		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.95		CO-ORDINATES N		1058		CASING DEPTH, m		2.00			
START DATE		17/12/2022		GROUND ELEVATION		276.756		CORE DIAMETER		54 mm			
END DATE		19/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m,Filled up soil				DS							
1.0		0.50m to 3.00m, Yellowish brown clayey sand of high plasticity											
1.5						SPT	1	2	2	4			
2.0													
2.5													
3.0		3.00m to 7.50m, Yellowish brown silty sand, non-plastic				SPT	1	2	3	5			
3.5													
4.0													
4.5	SPT					1	2	4	6				
5.0													
5.5													
6.0						SPT	5	7	11	18			
6.5													
7.0		7.50m to 9.00m, Yellowish brown silty clay of intermediate plasticity with small fraction of gravels											
7.5						SPT	15	24	42	66			
8.0													
8.5													
9.0		9.00m to 20.00m, Highly to slightly weathered, very poor to good greyish brown silty sandstone				SPT	15	50(2cm)	-	REF			
9.5	CR										41.00	9.00	
10.0													
10.5													
11.0	CR										70.00	40.00	
11.5													
12.0													
12.5	CR										76.00	52.00	
13.0													
13.5													
14.0						CR					77.00	38.00	
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-83	LOCATION	TG U#6	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	512	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.95	CO-ORDINATES N	1058	CASING DEPTH, m	2.00					
START DATE		17/12/2022	GROUND ELEVATION	276.756	CORE DIAMETER	54 mm					
END DATE		19/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		9.50m to 20.00m, Moderately to slightly weathered, good to fair greyish brown silty sandstone		CR						82.00	76.00
16.0											
16.5											
17.0				CR					71.00	69.00	
17.5											
18.0											
18.5				CR					50.00	50.00	
19.0											
19.5											
20.0				CR					58.00	56.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-84	LOCATION	TG U#6	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m	20.00	CO-ORDINATES E	525	DRILLING METHOD	ROTARY				
GROUND WATER TABLE	2.90	CO-ORDINATES N	1081	CASING DEPTH, m	2.50				
START DATE	15/12/2022	GROUND ELEVATION	276.332	CORE DIAMETER	54 mm				
END DATE	16/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5	0.00m to 0.50m, Filled up soil		DS						
1.0	0.50m to 4.50m, Brownish silty sand, non-plastic with gravels								
1.5			SPT	3	3	5	8		
2.0									
2.5									
3.0			SPT	5	5	9	14		
3.5									
4.0									
4.5			SPT	8	9	11	20		
5.0	4.50m to 9.50m, Yellowish brownish clayey sand of medium plasticity								
5.5									
6.0			SPT	9	12	17	29		
6.5									
7.0									
7.5			SPT	10	14	19	33		
8.0									
8.5									
9.0			SPT	9	15	22	37		
9.5									
10.0	9.50m to 20.00m, Highly to moderately weathered, very poor to poor reddish brown silty sandstone		CR						32.00 11.00
10.5									
11.0			CR						50.00 16.00
11.5									
12.0									
12.5			CR						64.00 30.00
13.0									
13.5									
14.0			CR						52.00 28.00
14.5									
15.0									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-84	LOCATION	TG U#6	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	525	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.90	CO-ORDINATES N	1081	CASING DEPTH, m	2.50					
START DATE		15/12/2022	GROUND ELEVATION	276.332	CORE DIAMETER	54 mm					
END DATE		16/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		9.50m to 20.00m, Moderately to fresh weathered, very poor to fair reddish brown silty sandstone		CR						44.00	10.00
16.0											
16.5											
17.0				CR						54.00	18.00
17.5											
18.0											
18.5				CR						61.00	27.00
19.0											
19.5											
20.0				CR					100.0	52.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-85		LOCATION		SWAS Room		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		542		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		3.10		CO-ORDINATES N		1185		CASING DEPTH, m		2.50				
START DATE		23/12/2022		GROUND ELEVATION		276.113		CORE DIAMETER		54 mm				
END DATE		24/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.50m, Filled up soil				DS								
1.0		0.50m to 9.00m, Greyish brown silty clay of intermediate plasticity with gravels												
1.5						SPT	2	2	4	6				
2.0														
2.5														
3.0						SPT	3	3	4	7				
3.5														
4.0														
4.5						SPT	4	5	5	10				
5.0														
5.5														
6.0						SPT	10	14	21	35				
6.5														
7.0														
7.5						SPT	40	50(10cm)	-	REF				
8.0														
8.5														
9.0						SPT	50(10cm)	-	-	REF				
9.5		9.00m to 10.50m, Highly weathered, very poor greyish brown silty sandstone				CR					50.00	0.00		
10.0														
10.5														
11.0		10.50m to 12.00m, Highly weathered, very poor brownish sandstone				SPT/CR	50(7cm)	-	-	REF		37.00	0.00	
11.5														
12.0														
12.5		12.00m to 20.00m, Highly to moderately weathered, very poor brownish silty sandstone				CR						54.00	19.00	
13.0														
13.5														
14.0						CR						34.00	0.00	
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD								
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-85	LOCATION	SWAS Room	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	542	DRILLING METHOD	ROTARY				
GROUND WATER TABLE		3.10	CO-ORDINATES N	1185	CASING DEPTH, m	2.50				
START DATE		23/12/2022	GROUND ELEVATION	276.113	CORE DIAMETER	54 mm				
END DATE		24/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE			ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
15.5		12.00m to 20.00m, Highly to freshly weathered, very poor to excellent brownish silty sandstone		CR					24.00	14.00
16.0										
16.5										
17.0				CR					42.00	24.00
17.5										
18.0										
18.5				CR					63.00	58.00
19.0										
19.5										
20.0				CR					98.00	98.00

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-86	LOCATION	Boiler U#5	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	15.00	CO-ORDINATES E	533	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	1.65	CO-ORDINATES N	1267	CASING DEPTH, m		2.50			
START DATE	17/12/2022	GROUND ELEVATION	276.035	CORE DIAMETER		54 mm			
END DATE	19/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	ROD, %
0.5		0.00m to 0.50m, Filled up soil	DS						
1.0		0.50m to 5.00m, Yellowish brownish clayey sand of high plasticity with gravels							
1.5			SPT	6	7	11	18		
2.0									
2.5									
3.0			SPT	8	10	16	26		
3.5									
4.0									
4.5			SPT	15	22	35	57		
5.0		5.00m to 9.00m, Moderately to slightly weathered, very poor to poor reddish brown sandstone	CR						
5.5								87.00	49.00
6.0			CR						
6.5								80.00	56.00
7.0									
7.5			CR					61.00	23.00
8.0									
8.5									
9.0		9.00m to 15.00m, Slightly to freshly weathered, very poor to fair, reddish brown silty sandstone	CR					74.00	44.00
9.5									
10.0			CR					82.00	57.00
10.5									
11.0									
11.5									
12.0			CR					100.0	62.00
12.5									
13.0									
13.5									
14.0			CR					44.00	7.00
14.5									
15.0									

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-87		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		534		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.75		CO-ORDINATES N		1320		CASING DEPTH, m		2.00				
START DATE		09/12/2022		GROUND ELEVATION		276.29		CORE DIAMETER		54 mm				
END DATE		10/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.50m, Filled up soil				DS								
1.0		0.50m to 4.50m, Greyish brown clayey sand of high plasticity with gravels												
1.5						SPT	6	10	18	28				
2.0														
2.5														
3.0						SPT	14	30	50(3cm)	REF				
3.5														
4.0														
4.5						SPT	41	50(2cm)	-	REF				
5.0		4.50m to 6.00m, Highly weathered, very poor greyish brown sandstone with thin bands of shales and siltstone				SPT/CR	50(3cm)	-	-	REF		40.00	0.00	
5.5														
6.0		6.00m to 15.00m, Moderately to slightly weathered, very poor to good, reddish brown silty sandstone				CR						52.00	12.00	
6.5												71.00	11.00	
7.0														
7.5														
8.0						CR							62.00	36.00
8.5														
9.0														
9.5						CR							65.00	42.00
10.0														
10.5														
11.0	CR							65.00	42.00					
11.5														
12.0														
12.5	CR								62.00	18.00				
13.0														
13.5														
14.0	CR								88.00	83.00				
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
			PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.			DBH-88		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m			15.00		CO-ORDINATES E		598		DRILLING METHOD		ROTARY				
GROUND WATER TABLE			1.30		CO-ORDINATES N		1337		CASING DEPTH, m		2.50				
START DATE			28/12/2022		GROUND ELEVATION		276.371		CORE DIAMETER		54 mm				
END DATE			30/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE					SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
								N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.65m, Filled up soil					DS								
1.0		0.65m to 4.50m, Greyish brown clayey sand of high plasticity with gravels													
1.5							SPT	6	9	20	29				
2.0															
2.5															
3.0							SPT	13	24	50	74				
3.5															
4.0															
4.5							SPT	50(8cm)	-	-	REF				
5.0		4.50m to 6.00m, Greyish brown silty clay of intermediate plasticity with gravels													
5.5															
6.0							SPT	50(9cm)	-	-	REF				
6.5		6.00m to 10.50m, Highly to moderately weathered, very poor to poor greyish brown sandstone with thin bands of shales and siltstone					CR						45.00	17.00	
7.0															
7.5															
8.0							CR							46.00	32.00
8.5															
9.0															
9.5										63.00	29.00				
10.0															
10.5															
11.0		10.50m to 13.50m, Highly to moderately weathered, poor yellowish brown silty sandstone					CR						54.00	38.00	
11.5															
12.0															
12.5							CR							48.00	26.00
13.0															
13.5															
14.0		13.50m to 15.00m, Mmoderately weathered, very poor greyish brown sandstone with thin bands of shales and siltstone					CR						54.00	23.00	
14.5															
15.0															

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-89		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		558		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		0.80		CO-ORDINATES N		1258		CASING DEPTH, m		2.50				
START DATE		20/12/2022		GROUND ELEVATION		275.921		CORE DIAMETER		54 mm				
END DATE		21/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.75m, Filled up soil				DS								
1.0						SPT	7	13	16	29				
1.5		0.75m to 4.50m, Yellowish brownish silty clay of intermediate plasticity												
2.0														
2.5						SPT	10	14	18	32				
3.0														
3.5														
4.0						SPT	20	9	37	46				
4.5														
5.0						4.50m to 15.00m, Moderately to freshly weathered, poor to excellent, reddish brown silty sandstone				CR				
5.5														
6.0		CR										48.00	46.00	
6.5														
7.0														
7.5		CR										72.00	38.00	
8.0														
8.5														
9.0		CR										75.00	40.00	
9.5														
10.0														
10.5		CR										80.00	62.00	
11.0														
11.5														
12.0		CR						61.00	44.00					
12.5														
13.0														
13.5		CR						72.00	41.00					
14.0														
14.5														
15.0		CR						98.00	96.00					

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-90		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		578.203		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.10		CO-ORDINATES N		1232.029		CASING DEPTH, m		2.50			
START DATE		04/01/2023		GROUND ELEVATION		276.858		CORE DIAMETER		54 mm			
END DATE		09/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 6.00m, Yellowish brownish poorly graded silty sand, non-plastic with gravels											
1.5						SPT	9	18	20	38			
2.0													
2.5													
3.0						SPT	4	5	10	15			
3.5													
4.0													
4.5						SPT	6	12	16	28			
5.0													
5.5													
6.0						SPT	30	50(4cm)	-	REF			
6.5		6.00m to 7.50m, Yellowish brownish clayey sand of medium plasticity with gravels											
7.0													
7.5						SPT	50(6cm)	-	-	REF			
8.0		7.50m to 15.00m, Highly to slightly weathered, very poor to fair, yellowish brown silty sandstone				CR					42.00	23.00	
8.5													
9.0													
9.5						CR						48.00	34.00
10.0													
10.5													
11.0						CR						73.00	73.00
11.5													
12.0													
12.5						CR						64.00	54.00
13.0													
13.5													
14.0	CR						60.00	31.00					
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-90	LOCATION	Boiler U#5	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	578.203	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.10	CO-ORDINATES N	1232.029	CASING DEPTH, m	2.50					
START DATE		04/01/2023	GROUND ELEVATION	276.858	CORE DIAMETER	54 mm					
END DATE		09/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
		15.00m to 20.00m, Moderately to freshly weathered, poor to excellent, reddish brown silty sandstone		CR						66.00	48.00
				CR						86.00	30.00
				CR						67.00	30.00
				CR						96.00	94.00

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
			PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.			DBH-91		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m			20.00		CO-ORDINATES E		605		DRILLING METHOD		ROTARY				
GROUND WATER TABLE			1.80		CO-ORDINATES N		1315		CASING DEPTH, m		2.50				
START DATE			31/12/2022		GROUND ELEVATION		276.318		CORE DIAMETER		54 mm				
END DATE			03/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE					SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
								N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.95m, Filled up soil					DS								
1.0															
1.5		0.95m to 3.00m, Greyish brown clayey sand of medium plasticity with traces of gravels					UDS								
2.0															
2.5															
3.0							SPT	7	12	20	32				
3.5		3.00m to 4.50m, Greyish brown silty clay of intermediate plasticity with gravels													
4.0															
4.5							SPT	35	50 (7cm)		REF				
5.0		4.50m to 6.00m, Yellowish brown silty clay of high plasticity with gravels													
5.5															
6.0							SPT	22	50 (10cm)		REF				
6.5		6.00m to 8.00m, Yellowish brown silty clay of intermediate plasticity with gravels													
7.0															
7.5							SPT	25	50 (8cm)		REF				
8.0		7.50m to 15.50m, Moderately weathered, very poor to good, yellowish brown sandstone with thin bands of shales and siltstone					CR						68.00	0.00	
8.5															
9.0															
9.5							CR							69.00	41.00
10.0															
10.5															
11.0							CR							76.00	22.00
11.5															
12.0															
12.5							CR							84.00	62.00
13.0															
13.5															
14.0		CR								85.00	22.00				
14.5															
15.0															

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-91	LOCATION	Boiler U#5	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	605	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		1.80	CO-ORDINATES N	1315	CASING DEPTH, m	2.50					
START DATE		31/12/2022	GROUND ELEVATION	276.318	CORE DIAMETER	54 mm					
END DATE		03/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		7.50m to 15.50m, Moderately weathered, very poor to good, yellowish brown sandstone with thin bands of shales and siltstone		CR						86.00	76.00
16.0											
16.5											
17.0		CR						82.00	70.00		
17.5											
18.0											
18.5		CR						96.00	82.00		
19.0											
19.5											
20.0				CR					80.00	56.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-92	LOCATION	Boiler U#5	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	643.406	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.95	CO-ORDINATES N	1314.31	CASING DEPTH, m		6.00				
START DATE		28/02/2023	GROUND ELEVATION	276.301	CORE DIAMETER		54 mm				
END DATE		28/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.45m, Filled up soil		DS-1							
1.0		0.45m to 12.50m, Yellowish brown silty clay of low plasticity									
1.5				SPT-1	6	8	10	18			
2.0											
2.5											
3.0				SPT-2	9	9	11	20			
3.5											
4.0											
4.5				UDS-1							
5.0											
5.5											
6.0				SPT-3	6	7	6	13			
6.5											
7.0											
7.5				SPT-4	3	8	10	18			
8.0											
8.5											
9.0				SPT-5	8	10	29	39			
9.5											
10.0											
10.5				SPT-6	50 (5cm)			REF			
11.0											
11.5											
12.0				SPT-7	10	16	22	38			
12.5											
13.0		12.50m to 15.00m, Greyish brown slightly weathered and poor to very poor silty sandstone		SPT-8/CR	50 (3cm)			REF		80.00	13.00
13.5											
14.0				CR						73.00	53.00
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-93		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		630		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.95		CO-ORDINATES N		1126		CASING DEPTH, m		2.60				
START DATE		11/01/2023		GROUND ELEVATION		276.156		CORE DIAMETER		54 mm				
END DATE		12/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.48m , Filled up soil				DS								
1.0		0.48m to 5.00m , Yellowish brown clayey sand of medium plasticity with traces of gravels												
1.5						UDS								
2.0														
2.5														
3.0						SPT	8	15	22	37				
3.5														
4.0														
4.5						SPT	12	19	18	37				
5.0														
5.5							5.00m to 20.00m , Highly to moderately weathered very poor to poor silty sandstone				CR			
6.0												42.00	20.00	
6.5	CR												36.00	27.00
7.0														
7.5														
8.0	CR												64.00	44.00
8.5														
9.0														
9.5	CR												50.00	38.00
10.0														
10.5														
11.0	CR							55.00	33.00					
11.5														
12.0														
12.5														
13.0														
13.5														
14.0														
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-93		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC	
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		630		DRILLING METHOD		ROTARY	
GROUND WATER TABLE		1.95		CO-ORDINATES N		1126		CASING DEPTH, m		2.60	
START DATE		11/01/2023		GROUND ELEVATION		276.156		CORE DIAMETER		54 mm	
END DATE		12/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm	
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5	5.00m to 20.00m , Highly to freshly weathered very poor to excellent silty sandstone			CR						56.00	53.00
16.0				CR						63.00	23.00
16.5											
17.0											
17.5				CR						49.00	7.00
18.0											
18.5											
19.0				CR						100.0	90.00
19.5											
20.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-94	LOCATION	Boiler U#5	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	577	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		3.50	CO-ORDINATES N	1294	CASING DEPTH, m		2.50				
START DATE		22/12/2022	GROUND ELEVATION	276.49	CORE DIAMETER		54 mm				
END DATE		27/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.56m, Filled up soil		DS							
1.0		0.56m to 3.00m, Yellowish brown poorly graded silty sand, non-plastic with traces of gravels									
1.5				SPT	7	9	11	20			
2.0											
2.5											
3.0				SPT	11	17	25	42			
3.5		3.00m to 5.00m, Yellowish brown clayey sand of medium plasticity with small fraction of gravels									
4.0											
4.5				SPT	15	22	30	52			
5.0											
5.5		5.00m to 10.50m, Highly to slightly weathered, very poor to good yellowish brown sandstone		CR						52.00	9.60
6.0											
6.5				CR						48.00	30.00
7.0											
7.5											
8.0				CR						62.00	24.00
8.5											
9.0											
9.5				CR					78.00	62.00	
10.0											
10.5											
11.0		10.50m to 12.00m, Moderately weathered, fair yellowish brown silty sandstone		CR						65.00	53.00
11.5											
12.0											
12.5		12.00m to 13.50m, Slightly weathered, good reddish brown sandstone		CR						85.00	82.00
13.0											
13.5											
14.0		13.50m to 20.00m, Slightly weathered, good yellowish brown silty sandstone		CR						90.00	85.00
14.5											
15.0											

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD								
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-94	LOCATION	Boiler U#5	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	577	DRILLING METHOD	ROTARY				
GROUND WATER TABLE		3.50	CO-ORDINATES N	1294	CASING DEPTH, m	2.50				
START DATE		22/12/2022	GROUND ELEVATION	276.49	CORE DIAMETER	54 mm				
END DATE		27/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
	15.5	13.50m to 20.00m, Slightly weathered, poor to good yellowish brown silty sandstone	CR						90.00	87.00
	16.0									
	16.5									
	17.0		CR						78.00	64.00
	17.5									
	18.0									
	18.5		CR						76.00	48.00
	19.0									
	19.5									
	20.0		CR						84.00	78.00

Receipt No : 292420/2024/PS-HQ-HRM

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		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-95		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		664.502		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.70		CO-ORDINATES N		1270.63		CASING DEPTH, m		2.50			
START DATE		30/01/2023		GROUND ELEVATION		276.226		CORE DIAMETER		54 mm			
END DATE		01/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.45m ,Filled up soil				DS							
1.0		0.45m to 6.00m , Yellowish brown silty sand with traces of gravels non-plastic											
1.5						UDS							
2.0													
2.5													
3.0						SPT	5	6	9	15			
3.5													
4.0													
4.5						SPT	9	14	21	35			
5.0													
5.5													
6.0						SPT	15	50 (13cm)		REF			
6.5		6.00m to 7.50m , Yellowish gray silty clay of intermediate plasticity											
7.0													
7.5						SPT	50 (14cm)		REF				
8.0		7.50m to 20.00m , Moderately to slightly weathered, very poor to good sandstone with thin bands of siltstones				CR						52.00	0.00
8.5													
9.0													
9.5						CR						72.00	43.00
10.0													
10.5													
11.0						CR						67.00	59.00
11.5													
12.0													
12.5						CR						71.00	70.00
13.0													
13.5													
14.0	CR						86.00	78.00					
14.5													
15.0													

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-95		LOCATION		Boiler U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		664.502		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.70		CO-ORDINATES N		1270.63		CASING DEPTH, m		2.50				
START DATE		30/01/2023		GROUND ELEVATION		276.226		CORE DIAMETER		54 mm				
END DATE		01/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
		7.50m to 20.00m , Moderately to slightly weathered, very poor to good sandstone with thin bands of siltstones				CR						95.00	93.00	
						CR							77.00	66.00
						CR							97.00	88.00
						CR							100.0	100.0

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-96		LOCATION		Boiler U#6		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		588		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.85		CO-ORDINATES N		1188		CASING DEPTH, m		2.50				
START DATE		27/12/2022		GROUND ELEVATION		276.518		CORE DIAMETER		54 mm				
END DATE		28/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.45m, Filled up soil				DS								
1.0		0.45m to 4.50m, Greyish brown silty sand, non-plastic												
1.5						SPT	4	3	3	6				
2.0														
2.5														
3.0						SPT	4	3	14	17				
3.5														
4.0														
4.5						SPT	4	8	11	19				
5.0		4.50m to 6.50m, Yellowish brown clayey sand of medium plasticity												
5.5														
6.0						SPT	19	14	19	33				
6.5														
7.0		6.50m to 9.50m, Moderately weathered, very poor yellowish brown silty sandstone and its fragments				CR						52.00	0.00	
7.5														
8.0						SPT	18	40	48	88				
8.5														
9.0						SPT	20	42	50	92				
9.5														
10.0		9.50m to 12.50m, Moderately to slightly weathered, very poor to fair yellowish brown sandstone with thin bands of shales and siltstone				CR						84.00	0.00	
10.5														
11.0						CR						61.00	24.00	
11.5														
12.0														
12.5						CR						80.00	64.00	
13.0		12.50m to 20.00m, Moderately weathered, poor yellowish brown silty sandstone												
13.5														
14.0						CR						68.00	36.00	
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-96		LOCATION		Boiler U#6		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		588		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.85		CO-ORDINATES N		1188		CASING DEPTH, m		2.50				
START DATE		27/12/2022		GROUND ELEVATION		276.518		CORE DIAMETER		54 mm				
END DATE		28/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE					SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
15.5	12.50m to 20.00m, Moderately to slightly weathered, poor to good, yellowish brown silty sandstone					CR						58.00	36.00	
16.0						CR						76.00	38.00	
16.5														
17.0														
17.5						CR							82.00	62.00
18.0														
18.5														
19.0						CR								
19.5														
20.0								80.00	80.00					

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-97		LOCATION		Boiler U#6		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		646		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		2.90		CO-ORDINATES N		1176		CASING DEPTH, m		2.50			
START DATE		19/12/2022		GROUND ELEVATION		276.435		CORE DIAMETER		54 mm			
END DATE		20/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 3.00m , Yellowish brown silty sand of high plasticity with fraction of gravels											
1.5						SPT	8	12	17	29			
2.0													
2.5													
3.0						SPT	7	13	20	33			
3.5		3.00m to 9.50m, Grayish brown sandy clay of intermediate plasticity high plasticity with traces of gravels											
4.0													
4.5						SPT	10	16	23	39			
5.0													
5.5													
6.0						SPT	13	19	26	45			
6.5													
7.0													
7.5						SPT	17	28	38	66			
8.0													
8.5													
9.0						SPT	25	32	48	80			
9.5													
10.0		9.50m to 20.00m,Highly to slightly weathered , very poor to fair reddish brown silty sandstone				CR					89.00	66.00	
10.5													
11.0						CR						29.00	15.00
11.5													
12.0													
12.5						CR						66.00	14.00
13.0													
13.5													
14.0						CR						48.00	14.00
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-97	LOCATION	Boiler U#6	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	646	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.90	CO-ORDINATES N	1176	CASING DEPTH, m	2.50					
START DATE		19/12/2022	GROUND ELEVATION	276.435	CORE DIAMETER	54 mm					
END DATE		20/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
		9.50m to 20.00m,Highly to freshly weathered, very poor to poor reddish brown silty sandstone		CR						84.00	11.00
15.5											
16.0											
16.5											
17.0				CR						71.00	41.00
17.5											
18.0											
18.5				CR						48.00	0.00
19.0											
19.5											
20.0				CR						100.0	20.00

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-98		LOCATION		Boiler U#6		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		645		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		2.23		CO-ORDINATES N		1138		CASING DEPTH, m		2.50			
START DATE		16/12/2022		GROUND ELEVATION		276.434		CORE DIAMETER		54 mm			
END DATE		17/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 6.00m, Yellowish brown silty clay of intermediate plasticity				SPT	4	5	11	16			
1.5													
2.0													
2.5						SPT	4	1	3	4			
3.0													
3.5													
4.0						SPT	8	10	14	24			
4.5													
5.0													
5.5						SPT	8	15	24	39			
6.0													
6.5		6.00m to 10.50m , Yellowish brown clayey sand, Non-plastic											
7.0						SPT	14	18	26	44			
7.5													
8.0													
8.5						SPT	20	50 (12cm)		REF			
9.0													
9.5													
10.0						SPT	32	50 (10cm)		REF			
10.5													
11.0		10.00m to 20.00m, Highly to moderately weathered, very poor to poor, reddish brown sand stone				CR					68.00	17.00	
11.5													
12.0						CR					59.00	39.00	
12.5													
13.0													
13.5						CR					53.00	36.00	
14.0													
14.5													
15.0								48.00	42.00				

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-98	LOCATION	Boiler U#6	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	645	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.23	CO-ORDINATES N	1138	CASING DEPTH, m	2.50					
START DATE		16/12/2022	GROUND ELEVATION	276.434	CORE DIAMETER	54 mm					
END DATE		17/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
		10.00m to 20.00m, Moderately to slightly weathered, poor to fair, reddish brown sand stone									
15.5											
16.0					CR					78.00	61.00
16.5											
17.0					CR					73.00	62.00
17.5											
18.0											
18.5					CR					58.00	35.00
19.0											
19.5											
20.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-99	LOCATION	Boiler U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	655.926	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10	CO-ORDINATES N	1079.738	CASING DEPTH, m		2.50				
START DATE		28/12/2022	GROUND ELEVATION	276.11	CORE DIAMETER		54 mm				
END DATE		29/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.80m, Filled up soil		DS							
1.0											
1.5		0.80m to 6.00m , Yellowish brown poorly graded silty sand , Non-plastic		SPT	2	2	4	6			
2.0											
2.5											
3.0				SPT/UDS	3	2	5	7			
3.5											
4.0											
4.5				SPT	6	8	10	18			
5.0				UDS/DS							
5.5											
6.0				SPT	13	28	30	58			
6.5		6.00m to 6.50m, Yellowish brown clayey sand of high plasticity									
7.0		6.50m to 7.00m , Completely weathered, very poor silty sand stone		CR					0.00	0.00	
7.5		7.00m to 7.50m, Yellowish brown poorly graded silty sand,Non-plastic		SPT	50 (7cm)			REF			
8.0		7.50m to 20.00m, Highly to slightly weathered, poor to fair yellowish brown silty sand stone		CR						47.00	38.00
8.5											
9.0											
9.5				CR						74.00	58.00
10.0											
10.5											
11.0				CR						64.00	59.00
11.5											
12.0											
12.5				CR						42.00	34.00
13.0											
13.5											
14.0											
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-99	LOCATION	Boiler U#6	TYPE OF RIG		HYDRAULIC						
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	655.926	DRILLING METHOD		ROTARY						
GROUND WATER TABLE		2.10	CO-ORDINATES N	1079.738	CASING DEPTH, m		2.50						
START DATE		28/12/2022	GROUND ELEVATION	276.11	CORE DIAMETER		54 mm						
END DATE		29/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm						
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE				
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %		
		7.50m to 20.00m, Highly to moderately weathered, very poor to fair yellowish brown silty sand stone			CR						51.00	29.00	
					CR							66.00	58.00
					CR							44.00	8.00
					CR							66.00	48.00
15.5													
16.0													
16.5													
17.0													
17.5													
18.0													
18.5													
19.0													
19.5													
20.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-100	LOCATION	Boiler U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	630	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.28	CO-ORDINATES N	1092	CASING DEPTH, m		2.50				
START DATE		26/12/2022	GROUND ELEVATION	276.099	CORE DIAMETER		54 mm				
END DATE		27/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m, Filled up soil		DS							
1.0		0.50m to 2.00m, Grayish brown silty clay of intermediate plasticity									
1.5				SPT	1	2	4	6			
2.0				UDS/DS							
2.5		2.00m to 4.50m, Grayish brown clayey sand of high plasticity with fraction of gravels									
3.0				SPT	2	3	4	7			
3.5				UDS/DS							
4.0											
4.5				SPT	5	8	7	15			
5.0		4.50m to 6.00m, Grayish brown silty clay of intermediate plasticity									
5.5											
6.0				SPT	15	22	35	57			
6.5		6.00m to 6.50m, Yellowish brown clayey sand of high plasticity with gravels									
7.0		6.50m to 20.00m, Highly to slightly weathered, very poor to fair, yellowish brown silty sandstone		CR						47.00	10.00
7.5				CR						42.00	0.00
8.0											
8.5											
9.0											
9.5				CR						54.00	22.00
10.0											
10.5											
11.0				CR						67.00	25.00
11.5											
12.0											
12.5				CR						77.00	62.00
13.0											
13.5											
14.0	CR						42.00	26.00			
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-100	LOCATION	Boiler U#6	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	630	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.28	CO-ORDINATES N	1092	CASING DEPTH, m	2.50					
START DATE		26/12/2022	GROUND ELEVATION	276.099	CORE DIAMETER	54 mm					
END DATE		27/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		6.50m to 20.00m, Highly to moderately weathered, very poor yellowish brown silty sandstone		CR						59.00	41.00
16.0											
16.5											
17.0				CR						39.00	0.00
17.5											
18.0											
18.5				CR						50.00	0.00
19.0											
19.5											
20.0				CR					64.00	0.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-101		LOCATION		Boiler U#6		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		602		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		2.90		CO-ORDINATES N		1153		CASING DEPTH, m		2.50			
START DATE		21/12/2022		GROUND ELEVATION		276.504		CORE DIAMETER		54 mm			
END DATE		23/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 7.00m, Yellowish brown clayey sand of high plasticity with fraction of gravels				SPT	3	2	3	5			
1.5													
2.0													
2.5						SPT	2	2	3	5			
3.0													
3.5													
4.0						SPT	5	6	8	14			
4.5													
5.0													
5.5						SPT	6	10	10	20			
6.0													
6.5													
7.0						SPT	18	26	38	64			
7.5		7.00m to 10.00m, Grayish brown silty clay of intermediate plasticity											
8.0													
8.5						SPT	22	26	45	71			
9.0													
9.5													
10.0						SPT	40	50 (4cm)		REF			
10.5		10.00m to 20.00m, Highly to slightly weathered, very poor to poor reddish brown silty sandstone				CR					65.00	24.00	
11.0													
11.5													
12.0						CR					45.00	15.00	
12.5													
13.0													
13.5						CR					55.00	8.00	
14.0													
14.5													
15.0	CR						82.00	48.00					

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

 MK		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-102		LOCATION		Boiler U#6		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		25.00		CO-ORDINATES E		561		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		5.50		CO-ORDINATES N		1067		CASING DEPTH, m		2.50				
START DATE		20/12/2022		GROUND ELEVATION		276.208		CORE DIAMETER		54 mm				
END DATE		22/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.50m, Filled up soil				DS								
1.0		0.50m to 8.50m, Yellowish brown clayey sand of high plasticity with traces gravels				SPT	2	3	3	6				
1.5														
2.0														
2.5						SPT	4	4	6	10				
3.0														
3.5														
4.0						SPT	4	7	8	15				
4.5														
5.0														
5.5						SPT	11	15	15	30				
6.0														
6.5														
7.0						SPT	13	18	25	43				
7.5														
8.0														
8.5														
9.0		8.50m to 25.00m, Highly to slightly weathered, very poor to fair reddish brown silty sandstone				CR						36.00	0.00	
9.5														
10.0														
10.5						CR							34.00	15.00
11.0														
11.5														
12.0						CR							66.00	53.00
12.5														
13.0														
13.5						CR							72.00	9.00
14.0														
14.5														
15.0														
15.5														
16.0														
16.5														
17.0														
17.5														
18.0														
18.5														
19.0														
19.5														
20.0														
20.5														
21.0														
21.5														
22.0														
22.5														
23.0														
23.5														
24.0														
24.5														
25.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-102	LOCATION	Boiler U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		25.00	CO-ORDINATES E	561	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		5.50	CO-ORDINATES N	1067	CASING DEPTH, m		2.50				
START DATE		20/12/2022	GROUND ELEVATION	276.208	CORE DIAMETER		54 mm				
END DATE		22/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
15.5		8.50m to 25.00m, Highly to slightly weathered, very poor to fair reddish brown silty sandstone									
16.0											
16.5				CR						75.00	14.00
17.0											
17.5											
18.0				CR						84.00	59.00
18.5											
19.0											
19.5				CR						80.00	76.00
20.0											
20.5											
21.0				CR						94.00	90.00
21.5											
22.0											
22.5				CR						86.00	72.00
23.0											
23.5											
24.0	CR						70.00	66.00			
24.5											
25.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-103	LOCATION	Boiler U#6	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	20.00	CO-ORDINATES E	612.382	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	2.80	CO-ORDINATES N	1081.891	CASING DEPTH, m		2.50			
START DATE	23/12/2022	GROUND ELEVATION	276.201	CORE DIAMETER		54 mm			
END DATE	24/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.50m, Filled up soil	DS						
1.0		0.50m to 8.00m, Yellowish brown silty clay of intermediate plasticity							
1.5			SPT	1	2	3	5		
2.0			UDS/DS						
2.5									
3.0			SPT	3	3	5	8		
3.5									
4.0									
4.5			SPT	5	7	6	13		
5.0									
5.5									
6.0			SPT	6	7	10	17		
6.5									
7.0									
7.5			SPT	10	12	18	30		
8.0									
8.5		8.00m to 20.00m, Highly to moderately weathered, very poor to poor reddish brown silty sandstone	CR						11.00 0.00
9.0									
9.5			CR						52.00 40.00
10.0									
10.5									
11.0			CR						34.00 22.00
11.5									
12.0									
12.5			CR						48.00 30.00
13.0									
13.5									
14.0			CR						31.00 0.00
14.5									
15.0									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-103	LOCATION	Boiler U#6	TYPE OF RIG	HYDRAULIC						
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	612.382	DRILLING METHOD	ROTARY						
GROUND WATER TABLE		2.80	CO-ORDINATES N	1081.891	CASING DEPTH, m	2.50						
START DATE		23/12/2022	GROUND ELEVATION	276.201	CORE DIAMETER	54 mm						
END DATE		24/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm						
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE			ROCK CORE			
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		8.00m to 20.00m, Highly to moderately weathered, very poor to fair reddish brown silty sandstone and fragments										
16.0												
16.5					SPT	40	50 (6cm)		REF			
17.0					CR/SPT	50 (5cm)			REF		22.00	12.00
17.5												
18.0												
18.5					CR						30.00	23.00
19.0												
19.5												
20.0								70.00	56.00			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-104	LOCATION	ESP U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	691.156	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		3.00	CO-ORDINATES N	1175.773	CASING DEPTH, m		2.50				
START DATE		26/12/2022	GROUND ELEVATION	276.363	CORE DIAMETER		54 mm				
END DATE		27/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 2.0m, Filled up soil		DS							
1.0											
1.5				SPT	3	4	5	9			
2.0											
2.5		2.00m to 6.50m, Yellowish brown clayey sand of high plasticity									
3.0				SPT	2	2	4	6			
3.5				UDS/DS							
4.0											
4.5				SPT	5	6	8	14			
5.0											
5.5											
6.0				SPT	10	13	14	27			
6.5											
7.0		6.50m to 15.00m, Moderately to slightly weathered, very poor to fair yellowish brown silty sandstone		CR						72.00	15.00
7.5				CR						73.00	20.00
8.0											
8.5											
9.0				CR						64.00	24.00
9.5											
10.0											
10.5											
11.0				CR						65.00	15.00
11.5											
12.0											
12.5				CR						74.00	8.00
13.0											
13.5											
14.0	CR						69.00	59.00			
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-105	LOCATION		ESP U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E		695.541	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.90	CO-ORDINATES N		1079.826	CASING DEPTH, m		2.60				
START DATE		11/01/2023	GROUND ELEVATION		276.181	CORE DIAMETER		54 mm				
END DATE		13/01/2023	CIRCULATION FLUID		WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.70m, Filled up soil			DS							
1.0					0.70m to 6.50m , Yellowish brown silty clay of low plasticity							
1.5		SPT	2	3				3	6			
2.0												
2.5												
3.0		SPT	2	3				5	8			
3.5												
4.0												
4.5		SPT	5	6				7	13			
5.0												
5.5												
6.0		SPT	7	10				15	25			
6.5												
7.0		6.50m to 20.00m , Highly to moderately weathered, poor to good, grayish brown sandstone with thin bands of siltstones			CR						56.00	11.00
7.5												
8.0					CR						46.00	31.00
8.5												
9.0												
9.5					CR						55.00	27.00
10.0												
10.5												
11.0					CR						46.00	40.00
11.5												
12.0												
12.5					CR						64.00	45.00
13.0												
13.5												
14.0												
14.5												
15.0												

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-105	LOCATION	ESP U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	695.541	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.90	CO-ORDINATES N	1079.826	CASING DEPTH, m		2.60				
START DATE		11/01/2023	GROUND ELEVATION	276.181	CORE DIAMETER		54 mm				
END DATE		13/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
15.5		6.50m to 20.00m , Moderately to freshly weathered, very poor to fair greyish brown sandstone with thin bands of siltstone		CR						64.30	49.87
16.0											
16.5											
17.0				CR						68.80	55.37
17.5											
18.0											
18.5				CR						79.00	73.00
19.0											
19.5											
20.0				CR						100.0	60.00

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-106	LOCATION	ESP U#6	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	15.00	CO-ORDINATES E	700	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	2.40	CO-ORDINATES N	1100	CASING DEPTH, m		2.50			
START DATE	14/12/2022	GROUND ELEVATION	276.731	CORE DIAMETER		54 mm			
END DATE	15/12/2022	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.50m, Filled up soil	DS						
1.0		0.50m to 2.00m, Yellowish brown silty clay of low plasticity							
1.5			SPT	2	3	4	7		
2.0									
2.5		2.00m to 7.50, Yellowish brown silty clay of intermediate plasticity							
3.0			SPT	5	4	5	9		
3.5			UDS/DS						
4.0									
4.5			SPT	4	6	7	13		
5.0									
5.5									
6.0			SPT	5	9	13	22		
6.5									
7.0									
7.5			SPT	17	22	29	51		
8.0		7.50mm to 10.50m, Yellowish brown clayey sand Non-plastic							
8.5									
9.0			SPT	24	50 (12cm)		REF		
9.5									
10.0									
10.5			SPT	28	50 (4cm)		REF		
11.0		10.50m to 15.00m, Highly to slightly weathered, very poor to poor reddish brown silty sandstone	CR						72.00 39.00
11.5									
12.0									
12.5			CR						42.00 14.00
13.0									
13.5									
14.0			CR						50.00 18.00
14.5									
15.0									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-107		LOCATION		ESP U#6		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		751		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		3.00		CO-ORDINATES N		1172		CASING DEPTH, m		2.50			
START DATE		23/12/2022		GROUND ELEVATION		276.183		CORE DIAMETER		54 mm			
END DATE		24/12/2022		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 3.00m , Reddish brown silty sand ,Non-plastic											
1.5						SPT	5	5	5	10			
2.0													
2.5													
3.0		3.00m to 9.50m , Reddish brown clayey sand of high plasticity				SPT	4	5	6	11			
3.5													
4.0													
4.5						SPT	4	5	6	11			
5.0													
5.5													
6.0						SPT	11	13	12	25			
6.5													
7.0													
7.5						SPT	10	17	24	41			
8.0													
8.5													
9.0						SPT	9	19	27	46			
9.5													
10.0		9.50m to 15.00m,Highly to moderately weathered, very poor to poor brown silty sandstone				CR					48.00	31.00	
10.5													
11.0						CR						60.00	28.00
11.5													
12.0													
12.5						CR						32.00	10.00
13.0													
13.5													
14.0						CR					30.00	0.00	
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-108		LOCATION		ESP U#6 <th colspan="2">TYPE OF RIG</th> <td colspan="2">HYDRAULIC</td>		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		727.562		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.70		CO-ORDINATES N		1207.899		CASING DEPTH, m		2.50				
START DATE		09/02/2023		GROUND ELEVATION		276.426		CORE DIAMETER		54 mm				
END DATE		10/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.33m , Filled up soil				DS								
1.0		0.33m to 3.00mm , Reddish brown clayey sand of medium plasticity												
1.5						SPT	4	6	7	13				
2.0														
2.5														
3.0						SPT	6	9	15	24				
3.5		3.00m to 4.50m , Yellowish brown silty clay of low plasticity												
4.0														
4.5						SPT	11	25	50 (10CM)	REF				
5.0		4.50m to 5.00m , Yellowish brown silty clay of intermediate plasticity												
5.5		5.00m to 15.00m , Highly to freshly weathered, very poor to good yellowish brown sandstone with thin bands of siltstone				CR						52.00	22.00	
6.0														
6.5						CR							60.00	53.00
7.0														
7.5														
8.0						CR							45.00	31.00
8.5														
9.0														
9.5						CR							92.00	68.00
10.0														
10.5														
11.0						CR							86.00	76.00
11.5														
12.0														
12.5						CR							71.00	50.00
13.0														
13.5														
14.0	CR							73.00	52.00					
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-109	LOCATION	ESP U#6	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	20.00	CO-ORDINATES E	743.81	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	1.60	CO-ORDINATES N	1071.501	CASING DEPTH, m		2.50			
START DATE	30/12/2022	GROUND ELEVATION	276.413	CORE DIAMETER		54 mm			
END DATE	02/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.50m, Filled up soil	DS						
1.0		0.50m to 3.00m, Brown clay of high plasticity							
1.5			UDS						
2.0									
2.5									
3.0			SPT	3	4	3	7		
3.5		3.00m to 5.00m, Yellowish brown silty clay of low plasticity							
4.0									
4.5			SPT	4	4	6	10		
5.0									
5.5		5.00m to 6.50m, Highly weathered, very poor brown silty sandstone	CR						26.00
6.0									0.00
6.5									
7.0		6.50m to 11.00m, Yellowish clayey sand of high plasticity with fraction of gravels							
7.5			SPT	4	5	7	12		
8.0									
8.5									
9.0			SPT	11	16	20	36		
9.5									
10.0									
10.5			SPT	50 (13cm)			REF		
11.0									
11.5		11.00m to 20.00m, Highly to moderately weathered, very poor to poor, reddish brown silty sandstone	CR						36.00
12.0									0.00
12.5			CR						40.00
13.0									0.00
13.5									
14.0			CR						48.00
14.5									37.00
15.0									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-109		LOCATION		ESP U#6 <th colspan="2">TYPE OF RIG</th> <td colspan="2">HYDRAULIC</td>		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		743.81		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.60		CO-ORDINATES N		1071.501		CASING DEPTH, m		2.50				
START DATE		30/12/2022		GROUND ELEVATION		276.413		CORE DIAMETER		54 mm				
END DATE		02/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
15.5		11.00m to 20.00m,Highly to moderately weathered, very poor reddish brown silty sandstone				CR						56.00	30.00	
16.0														
16.5														
17.0						CR							44.00	7.00
17.5														
18.0														
18.5						CR							42.00	0.00
19.0														
19.5														
20.0		CR							54.00	0.00				

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD															
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.														
BOREHOLE NO.		DBH-110		LOCATION		ESP U#5		TYPE OF RIG		HYDRAULIC							
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		719.201		DRILLING METHOD		ROTARY							
GROUND WATER TABLE		1.69		CO-ORDINATES N		1324.12		CASING DEPTH, m		6.00							
START DATE		23/02/2023		GROUND ELEVATION		276.109		CORE DIAMETER		54 mm							
END DATE		24/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm							
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE						
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %				
0.5		0.00m to 0.68m, Filled up soil				DS-1											
1.0																	
1.5						0.68m to 2.00m, Yellowish brown clayey sand of medium plasticity				SPT-1	9	12	16	28			
2.0																	
2.5		2.00m to 5.00m, Yellowish brown silty clay of intermediate plasticity with small fraction of gravels															
3.0						UDS-1											
3.5																	
4.0																	
4.5						SPT-2	7	10	13	23							
5.0																	
5.5		5.00m to 15.00m, Yellowish brown moderately to slightly weathered and good to fair silty sandstone				SPT-3/CR-1	50 (2cm)			REF		52.00	33.00				
6.0						CR-2							72.00	46.00			
6.5																	
7.0																	
7.5																	
8.0						CR-3							88.00	63.00			
8.5																	
9.0																	
9.5						CR-4							91.00	73.00			
10.0																	
10.5																	
11.0						CR-5							80.00	78.00			
11.5																	
12.0																	
12.5		CR-6							61.00	34.00							
13.0																	
13.5																	
14.0		CR-7							83.00	59.00							
14.5																	
15.0																	

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-111	LOCATION	ESP U#5	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	685	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.95	CO-ORDINATES N	1237	CASING DEPTH, m		2.50				
START DATE		06/02/2023	GROUND ELEVATION	276.419	CORE DIAMETER		54 mm				
END DATE		07/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.40m , Filled up soil		DS							
1.0		0.40m to 4.50m , Yellowish brown sandy clay of low plasticity		UDS							
1.5											
2.0											
2.5											
3.0				SPT	10	15	22	37			
3.5											
4.0											
4.5				SPT	18	50 (9cm)		REF			
5.0		4.50m to 15.00m, Slightly weathered, poor to fair, yellowish brown sandstone with thin bands of siltstone		CR						88.00	37.00
5.5											
6.0											
6.5				CR						89.00	47.00
7.0											
7.5											
8.0				CR						77.00	72.00
8.5											
9.0											
9.5				CR						86.00	69.00
10.0											
10.5											
11.0	CR						90.00	37.00			
11.5											
12.0											
12.5	CR						76.00	54.00			
13.0											
13.5											
14.0	CR						76.00	68.00			
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-112	LOCATION	Absorber U#6	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	862.841	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.10	CO-ORDINATES N	1125.722	CASING DEPTH, m	2.50					
START DATE		09/01/2023	GROUND ELEVATION	276.382	CORE DIAMETER	54 mm					
END DATE		10/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.65m , Filled up soil		DS							
1.0		0.65m to 7.50m , Yellowish brown clayey sand of medium plasticity with traces of gravels									
1.5				SPT	5	6	6	12			
2.0											
2.5											
3.0				SPT	5	7	11	18			
3.5											
4.0				UDS							
4.5				SPT	6	10	14	24			
5.0											
5.5											
6.0				SPT	10	19	17	36			
6.5											
7.0											
7.5				SPT	14	50 (9cm)		REF			
8.0		7.50m to 20.00m , Highly to slightly weathered, very poor to poor, yellowish brown silty sandstone		CR						52.00	0.00
8.5											
9.0											
9.5				CR						68.00	34.00
10.0											
10.5											
11.0				CR						82.00	30.00
11.5											
12.0											
12.5				CR						49.00	13.00
13.0											
13.5											
14.0	CR						45.00	45.00			
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD								
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.		DBH-112	LOCATION	Absorber U#6	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	862.841	DRILLING METHOD	ROTARY				
GROUND WATER TABLE		2.10	CO-ORDINATES N	1125.722	CASING DEPTH, m	2.50				
START DATE		09/01/2023	GROUND ELEVATION	276.382	CORE DIAMETER	54 mm				
END DATE		10/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		8.50m to 20.00m ,Highly to moderately weathered, poor to very poor, yellowish brown silty sandstone	CR						37.00	13.00
16.0			CR					39.00	0.00	
16.5										
17.0										
17.5										
18.0			CR					55.00	15.00	
18.5										
19.0										
19.5			CR						14.00	0.00
20.0										

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-113		LOCATION		Absorber U#6		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		865		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.95		CO-ORDINATES N		1228		CASING DEPTH, m		2.50			
START DATE		14/02/2023		GROUND ELEVATION		276.422		CORE DIAMETER		54 mm			
END DATE		15/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.65m , Filled up soil				DS							
1.0		0.65m to 4.50m , Grayish brown silty sand with traces of gravels non-plastic											
1.5						SPT	5	6	6	12			
2.0													
2.5													
3.0						SPT	6	7	8	15			
3.5													
4.0													
4.5						SPT	7	8	10	18			
5.0		4.50m to 8.00m , Grayish brown sandy clay of low plasticity with traces of gravels											
5.5													
6.0						SPT	10	15	20	35			
6.5													
7.0													
7.5						SPT	9	12	19	31			
8.0													
8.5							8.00m to 13.50m , Highly to moderately weathered, poor to very poor, yellowish brown sand stone with thin bands of shales and siltstone				CR		
9.0	CR											32.00	0.00
9.5													
10.0													
10.5													
11.0	CR											62.00	50.00
11.5													
12.0													
12.5	SPT /CR	50 (14cm)			REF							58.00	0.00
13.0													
13.5													
14.0		13.50m to 15.00m , Freshly weathered, poor yellowish browns and stone with thin bands of shales and siltstone				CR						98.00	31.00
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-114	LOCATION	Chimney	TYPE OF RIG	HYDRAULIC					
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	855	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		2.40	CO-ORDINATES N	1174	CASING DEPTH, m	2.50					
START DATE		09/02/2023	GROUND ELEVATION	276.474	CORE DIAMETER	54 mm					
END DATE		12/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 1.30m ,Filled up soil		DS							
1.0											
1.5				SPT	3	4	6	10			
2.0		1.30m to 8.00m ,Yellowish brown clayey sand of high plasticity with traces of gravels		UDS							
2.5											
3.0				SPT	6	8	8	16			
3.5											
4.0											
4.5				SPT	7	9	10	19			
5.0											
5.5											
6.0				SPT	10	16	20	36			
6.5											
7.0											
7.5				SPT	25	50 (13cm)		REF			
8.0				7.50m to 9.00m, Moderately weathered, very poor yellowish brown silty sandstone		SPT/CR	50 (9cm)			REF	
8.5											
9.0											
9.5	9.00m to 20.00m , Highly to slightly weathered, very poor to fair, yellowish brown sand stone with thin bands of shales and siltstone		CR						62.00	23.00	
10.0											
10.5											
11.0			CR						44.00	0.00	
11.5											
12.0											
12.5			CR						80.00	36.00	
13.0											
13.5											
14.0	CR						86.00	70.00			
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-114		LOCATION		Chimney		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		855		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.40		CO-ORDINATES N		1174		CASING DEPTH, m		2.50				
START DATE		09/02/2023		GROUND ELEVATION		276.474		CORE DIAMETER		54 mm				
END DATE		12/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
	15.5	9.50m to 20.00m , Moderately to freshly weathered, very poor to fair yellowish brown sand stone with thin bands of shales and siltstone				CR						93.00	30.00	
	16.0													
	16.5													
	17.0													
	17.5													
	18.0													
	18.5													
	19.0													
	19.5													
	20.0											98.00	0.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-115		LOCATION		ID Fan U#5		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		781.832		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10		CO-ORDINATES N		1224.487		CASING DEPTH, m		2.50				
START DATE		11/02/2023		GROUND ELEVATION		276.512		CORE DIAMETER		54 mm				
END DATE		13/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.45m , Filled up soil				DS								
1.0		0.45m to 7.50m , Grayish brown silty sand non-plastic												
1.5						SPT	4	4	5	9				
2.0														
2.5														
3.0						UDS								
3.5														
4.0														
4.5						SPT	7	8	9	17				
5.0														
5.5														
6.0						SPT	5	8	12	20				
6.5														
7.0														
7.5	SPT					11	22	23	45					
8.0		7.50m to 9.00m , Grayish brown silty clay of low plasticity with fraction of gravels												
8.5														
9.0		SPT	12	20	21	41								
9.5		9.00m to 10.50m , Grayish brown silty clay of intermediate plasticity with traces of gravels												
10.0														
10.5		SPT	50 (6cm)			REF								
11.0		10.50m to 15.00m , Moderately to freshly weathered, poor to fair, yellowish brown silty sandstone				CR						95.00	46.00	
11.5														
12.0														
12.5						CR						64.00	64.00	
13.0														
13.5														
14.0						CR						92.00	47.00	
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-116	LOCATION	ID Fan U#5	TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m	15.00	CO-ORDINATES E	978.402	DRILLING METHOD		ROTARY			
GROUND WATER TABLE	1.85	CO-ORDINATES N	1245.108	CASING DEPTH, m		6.00			
START DATE	15/02/2023	GROUND ELEVATION	276.321	CORE DIAMETER		54 mm			
END DATE	16/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE	SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5		0.00m to 0.45m, Filled up soil	DS-1						
1.0		0.45m to 8.00m, Yellowish brown silty clay of low plasticity							
1.5			SPT-1	3	3	5	8		
2.0									
2.5									
3.0			UDS-1						
3.5									
4.0									
4.5			SPT-2	5	7	9	16		
5.0									
5.5									
6.0			SPT-3	50 (3cm)			REF		
6.5									
7.0									
7.5			SPT-4	10	11	15	26		
8.0									
8.5		8.00m to 11.00m, Yellowish brown moderately to slightly weathered and very poor sandstone	CR-1						81.00
9.0									
9.5			CR-2						64.00
10.0									25.00
10.5		11.00m to 13.50m, Yellowish brown silty clay of low plasticity	CR-3/SPT-5	30	50 (10cm)		REF		37.00
11.0									0.00
11.5									
12.0									
12.5		13.50m to 15.00m, Yellowish brown fresh and good sandstone							
13.0									
13.5			SPT-6	50 (14cm)			REF		
14.0			CR-4						97.00
14.5									89.00
15.0									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-117		LOCATION		ID Fan U#5 <th colspan="2">TYPE OF RIG</th> <td colspan="2">HYDRAULIC</td>		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		791		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.65		CO-ORDINATES N		1300		CASING DEPTH, m		2.50				
START DATE		17/02/23		GROUND ELEVATION		276.305		CORE DIAMETER		54 mm				
END DATE		20/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00 to 0.50m ,Filled up soil				DS-1								
1.0		0.50m to 2.00m , Yellowish brown clayey sand of intermediate plasticity				SPT-1								
1.5							6	6	8	14				
2.0														
2.5		2.00m to 3.50m , Yellowish brown silty clay of intermediate plasticity				UDS-1								
3.0														
3.5														
4.0		3.50m to 6.00m ,Yellowish brown silty clay of low plasticity				SPT-2								
4.5							5	8	10	18				
5.0														
5.5														
6.0							SPT-3	6	9	11	20			
6.5														
7.0		6.50m to 7.50m , Grayish brown moderately weathered and very poor sand stone				SPT-4/CR-1	50 (1cm)	-	-	REF		55.00	14.00	
7.5		7.50m to 9.00m ,Grayish brown moderately weathered and poor silty sand stone				CR-2						60.00	36.00	
8.0														
8.5														
9.0		9.00m to 10.50m , Yellowish brown highly weathered and very poor silt stone				CR-3						47.00	17.00	
9.5														
10.0														
10.5		10.50m to 15.00m ,Grayish brown highly weathered poor to very poor sand stone				CR-4						41.00	0.00	
11.0														
11.5														
12.0														
12.5						CR-5						49.00	26.00	
13.0														
13.5														
14.0		CR-6/SPT	19	50 (4cn)	-	REF		42.00	23.00					
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
			PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.			DBH-118		LOCATION		Trestle		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m			15.00		CO-ORDINATES E		649		DRILLING METHOD		ROTARY				
GROUND WATER TABLE			1.86		CO-ORDINATES N		1358		CASING DEPTH, m		6.00				
START DATE			25/02/2023		GROUND ELEVATION		276.508		CORE DIAMETER		54 mm				
END DATE			27/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE					SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
								N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.45m, Filled up soil					DS-1								
1.0		0.45m to 3.00m, Yellowish brown silty gravel, non-plastic													
1.5							SPT-1	50 (6cm)			REF				
2.0															
2.5															
3.0							SPT-2	50 (10cm)			REF				
3.5		3.00m to 6.00m, Yellowish brown highly weathered and very poor siltstone					CR-1						41.00	0.00	
4.0															
4.5															
5.0							SPT-3/ CR-2	50 (9cm)			REF		53.00	7.00	
5.5															
6.0		6.00m to 7.50m, Yellowish brown silty gravel, non-plastic													
6.5															
7.0															
7.5			SPT-4	50 (4cm)			REF								
8.0		7.50m to 15.00m, Greyish brown highly to moderately and very poor to poor siltstone					CR-3						53.00	24.00	
8.5															
9.0															
9.5							CR-4							37.00	0.00
10.0															
10.5															
11.0							CR-5							61.00	43.00
11.5															
12.0															
12.5							CR-6							73.00	28.00
13.0															
13.5															
14.0							CR-7							56.00	32.00
14.5															
15.0															

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
			PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-119		LOCATION		CHP Pump House <th colspan="2">TYPE OF RIG</th> <td colspan="2">HYDRAULIC</td>		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		716		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.65		CO-ORDINATES N		1348		CASING DEPTH, m		3.50				
START DATE		25/02/2023		GROUND ELEVATION		276.085		CORE DIAMETER		54 mm				
END DATE		25/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.45m , Filledup soil				DS-1								
1.0		0.45m to 3.50m , Yellowish brown silty clay of intermediate plasticity												
1.5						SPT-1	15	18	19	37				
2.0														
2.5														
3.0						SPT-2	16	20	25	45				
3.5														
4.0		3.50m to 4.50, Yellowish brown completely weathered and very poor silty sand stone				CR-1						28.00	0.00	
4.5		4.50m to 6.00m , Yellowish brown moderately weathered and very poor silt stone				CR-2						71.00	15.00	
5.0														
5.5		6.00m to 15.00m , Grayish brown slightly weatherd and fair to poor silt stone												
6.0														
6.5														
7.0														
7.5						SPT-3	13	20	20	40				
8.0														
8.5						CR-3							98.00	49.00
9.0														
9.5						CR-4							89.00	39.00
10.0														
10.5						CR-5							99.00	79.00
11.0														
11.5														
12.0														
12.5	CR-6							82.00	33.00					
13.0														
13.5														
14.0	CR-7							93.00	29.00					
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD										
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-120	LOCATION		Trestle	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E		793	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.89	CO-ORDINATES N		1356	CASING DEPTH, m		6.00				
START DATE		23/02/2023	GROUND ELEVATION		276.282	CORE DIAMETER		54 mm				
END DATE		23/02/2023	CIRCULATION FLUID		WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
						N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.40m, Filled up soil			DS-1							
1.0		0.40m to 3.50m , Yellowish brown clayey sand of intermediate plasticity										
1.5					SPT-1	6	8	9	17			
2.0												
2.5												
3.0					SPT-2	5	9	11	20			
3.5												
4.0		3.50m to 6.00m , Yellowish brown poorly graded silty sand non-plastic										
4.5					SPT-3	50 (4cm)			REF			
5.0												
5.5												
6.0					SPT-4	50 (3cm)			REF			
6.5		6.00m to 10.50m , Yellowish brown highly weathered very poor sand stone			CR-1						41.00	0.00
7.0												
7.5												
8.0					CR-2						49.00	15.00
8.5												
9.0												
9.5					CR-3						40.00	0.00
10.0												
10.5												
11.0											57.00	7.00
11.5		10.50m to 14.00m , Yellowish brown slightly weathered very poor sand stone			CR-4						57.00	7.00
12.0												
12.5					SPT-5/CR-5	48	50 (4cm)		REF		51.00	9.00
13.0												
13.5												
14.0		14.00m to 15.00m , Yellowish brown slightly weathered very poor silt stone			CR-6						68.00	15.00
14.5												
15.0												

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M&K SOIL TESTING LABORATORY PRIVATE LIMITED			M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
			PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-121		LOCATION		FGD U#5 <th colspan="2">TYPE OF RIG</th> <td colspan="2">HYDRAULIC</td>		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		799		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.95		CO-ORDINATES N		1325		CASING DEPTH, m		3.50				
START DATE		20/02/2023		GROUND ELEVATION		276.152		CORE DIAMETER		54 mm				
END DATE		21/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.50m , Filled up soil				DS-1								
1.0		0.50m to 2.00m , Yellowish brown silty sand with traces of gravels ,Non-elastic												
1.5						SPT-1	6	8	8	16				
2.0		2.00m to 3.50m Yellowish brown clayey sand of inermediate plasticity with traces of gravels												
2.5														
3.0		3.50m to 5.00m , Yellowish brown silty sand with traces of gravels ,Non-elastic				UDS-1								
3.5														
4.0		5.00m to 6.50m , Grayish brown moderately weathered poor silty sand stone												
4.5						SPT-2	7	9	11	20				
5.0		6.50m to 7.50m, Brown silty sand , non-plastic												
5.5														
6.0		7.50m to 13.00m , Yellowish brown moderately and weathered fair to poor silt stone				CR-1						60.00	0.00	
6.5														
7.0		13.00m to 15.00m , Yellowish brown fresh and good silt stone												
7.5						SPT-3	30	50 (3cm)		REF				
8.0		7.50m to 13.00m , Yellowish brown moderately and weathered fair to poor silt stone				CR-2						67.00	31.00	
8.5														
9.0														
9.5						CR-3						73.00	61.00	
10.0														
10.5														
11.0						CR-4						80.00	69.00	
11.5														
12.0														
12.5	CR-5							85.00	73.00					
13.0														
13.5		13.00m to 15.00m , Yellowish brown fresh and good silt stone												
14.0						CR-6						97.00	79.00	
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-122		LOCATION		FGD U#5		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		860		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.95		CO-ORDINATES N		1231		CASING DEPTH, m		3.50			
START DATE		02/03/2023		GROUND ELEVATION		276.381		CORE DIAMETER		54 mm			
END DATE		03/03/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m , Filled up soil				DS-1							
1.0		0.50m to 8.00m , Yellowish brown clayey sand of intermediate plasticity											
1.5						SPT-1	5	5	9	14			
2.0													
2.5													
3.0						SPT-2	4	10	13	23			
3.5													
4.0													
4.5						UDS-1							
5.0													
5.5													
6.0						SPT-3	9	11	15	26			
6.5													
7.0													
7.5						SPT-4	8	18	28	46			
8.0													
8.5		8.00m to 9.00m, Yellowish brown fresh and very poor sand stone				CR-1					100.0	21.00	
9.0		9.00m to 12.00m, Yellowish brown slightly weathered and poor to very poor sand stone				CR-2					89.00	24.00	
9.5													
10.0													
10.5													
11.0		CR-3						83.00	27.00				
11.5													
12.0													
12.5		CR-4						99.00	55.00				
13.0		12.00m to 13.50m, Yellowish brown fresh and fair sand stone											
13.5													
14.0	CR-5										90.00	77.00	
14.5	13.50m to 16.50m, Yellowish brown fresh and good sand stone												
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-122		LOCATION		FGD U#5		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		860		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.95		CO-ORDINATES N		1231		CASING DEPTH, m		3.50			
START DATE		02/03/2023		GROUND ELEVATION		276.381		CORE DIAMETER		54 mm			
END DATE		03/03/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		13.50m to 16.50m, Yellowish brown fresh and good sand stone				CR-6						94.00	80.00
16.0													
16.5													
17.0		16.50m to 19.50 , yellowish brown slightly weathered poor to very poor sand stone				CR-7						78.00	21.00
17.5													
18.0													
18.5												81.00	45.00
19.0													
19.5													
20.0	19.50m to 20.00m , Yellowish brown fresh and excellent sand stone				CR-9						100.0	100.0	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-123	LOCATION	Coal Settling Pond	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	968	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.50	CO-ORDINATES N	1167	CASING DEPTH, m		2.50				
START DATE		05/01/2023	GROUND ELEVATION	276.265	CORE DIAMETER		54 mm				
END DATE		05/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil		DS							
1.0		0.50 to 3.00m, Yellowish brown poorly graded silty sand non-plastic									
1.5				SPT	9	15	20	35			
2.0											
2.5											
3.0				SPT	8	25	50 (5cm)	REF			
3.5		3.00m to 4.50m, Yellowish brown clayey sand of high plasticity with fraction of gravels									
4.0											
4.5				SPT	20	50 (3cm)		REF			
5.0		4.50m to 6.00m, Yellowish brown silty sand ,Non-plastic									
5.5											
6.0				SPT	50 (7cm)			REF			
6.5		6.00m to 10.00m, Highly to moderately weathered, very poor yellowish brown silty sandstone		CR						31.00	0.00
7.0											
7.5											
8.0				CR						29.00	0.00
8.5											
9.0											
9.5				CR						57.00	0.00
10.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-124		LOCATION		Lime Handling		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		916		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		3.50		CO-ORDINATES N		1120		CASING DEPTH, m		2.50			
START DATE		29/12/2022		GROUND ELEVATION		276.543		CORE DIAMETER		54 mm			
END DATE		02/01/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.50m, Filled up soil				DS							
1.0		0.50m to 3.00m, Yellowish brown clayey sand of high plasticity with traces of gravels											
1.5						UDS							
2.0													
2.5													
3.0						SPT	3	5	7	12			
3.5		3.00m to 4.50m, Yellowish brown sandy clay of intermediate plasticity											
4.0													
4.5						SPT	10	12	18	30			
5.0		4.50m to 6.00m, Yellowish brown clayey sand of high plasticity											
5.5													
6.0						SPT	24	35	50 (5cm)	REF			
6.5		6.00m to 7.50m, Yellowish brown silty sand with fraction of gravels , Non-plastic											
7.0													
7.5						SPT	50 (12cm)			REF			
8.0		7.50m to 15.00m, Highly to slightly weathered , poor reddish brown sandstone with bands of shale and siltstone				CR						75.00	14.00
8.5													
9.0													
9.5						CR						82.00	39.00
10.0													
10.5													
11.0						CR						64.00	30.00
11.5													
12.0													
12.5						CR						52.00	38.00
13.0													
13.5													
14.0													
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

MK M.K. SOIL TESTING LABORATORY PRIVATE LIMITED		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-125		LOCATION		Railway Crossing		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		82.081		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.50		CO-ORDINATES N		2047.125		CASING DEPTH, m		6.00				
START DATE		02/03/2023		GROUND ELEVATION		276.81		CORE DIAMETER		54 mm				
END DATE		02/03/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
	0.5	0.00m to 0.50m , Filled up soil				DS-1								
	1.0	0.50m to 12.00m , Yellowish brown silty sand non-plastic												
	1.5					SPT-1	17	21	23	44				
	2.0													
	2.5													
	3.0					SPT-2	19	26	31	57				
	3.5													
	4.0													
	4.5					SPT-3	47	50 (11cm)		REF				
	5.0													
	5.5													
	6.0					SPT-4	50 (9cm)			REF				
	6.5													
	7.0													
	7.5					SPT-5	50 (6cm)			REF				
	8.0													
	8.5													
	9.0					SPT-6	50 (7cm)			REF				
	9.5													
	10.0													
	10.5					SPT-7	50 (3cm)			REF				
	11.0													
	11.5													
	12.0	SPT-8	50 (14cm)			REF								

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-126		LOCATION		Railway Crossing		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		164		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.65		CO-ORDINATES N		1996		CASING DEPTH, m		6.00			
START DATE		26/02/2023		GROUND ELEVATION		278.308		CORE DIAMETER		54 mm			
END DATE		26/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m , Filled up soil				DS-1							
1.0		0.50m to 7.00m , Yellowish brown silty clay of intermediate plasticity with intermittent races of gravelas											
1.5						SPT-1	12	17	23	40			
2.0													
2.5													
3.0						SPT-2	15	19	26	45			
3.5													
4.0													
4.5						SPT-3	20	27	31	58			
5.0													
5.5													
6.0						SPT-4	26	33	39	72			
6.5													
7.0													
7.5		7.00m to 12.00m , Yellowish brown clayey sand of high plasticity				SPT-5	48	50 (3cm)		REF			
8.0													
8.5													
9.0						SPT-6	46	50 (3cm)		REF			
9.5													
10.0													
10.5						SPT-7	50 (12cm)			REF			
11.0													
11.5													
12.0						SPT-8	50 (6cm)			REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-127		LOCATION		Railway Crossing		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		12.00		CO-ORDINATES E		200		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		NMW		CO-ORDINATES N		1966		CASING DEPTH, m		2.50			
START DATE		14/02/2023		GROUND ELEVATION		276.283		CORE DIAMETER		54 mm			
END DATE		14/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m , Filled up soil				DS							
1.0		0.50m to 3.00m , Yellowish brown silty sand non-plastic											
1.5						SPT	10	11	13	24			
2.0													
2.5													
3.0						SPT	12	19	21	40			
3.5		3.00m to 12.00m , Yellowish white silty sand of high plasticity											
4.0													
4.5						SPT	13	21	24	45			
5.0													
5.5													
6.0						SPT	36	50 (5cm)		REF			
6.5													
7.0													
7.5						SPT	45	50 (3cm)		REF			
8.0													
8.5													
9.0						SPT	50 (10cm)			REF			
9.5													
10.0													
10.5						SPT	50 (8cm)			REF			
11.0													
11.5													
12.0						SPT	50 (6cm)			REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-128	LOCATION	Ash Silo	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	353	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		9.00	CO-ORDINATES N	1684	CASING DEPTH, m		6.00				
START DATE		24/02/2023	GROUND ELEVATION	281.169	CORE DIAMETER		54 mm				
END DATE		24/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
		0.00m to 0.20m , Filled up soil		DS-1							
0.5		0.20m to 4.50m , Yellowish brown clayey sand of high plasticity									
1.0											
1.5				SPT-1	4	5	7	12			
2.0											
2.5											
3.0				SPT-2	15	27	34	61			
3.5											
4.0											
4.5				SPT-3	27	50 (4cm)		REF			
5.0		4.50m to 15.00m , Yellowish brown highly weathered and poor to very poor silty sand stone		CR						29.00	0.00
5.5											
6.0											
6.5				CR						43.00	21.00
7.0											
7.5											
8.0				CR						45.00	13.00
8.5											
9.0											
9.5				CR						40.00	31.00
10.0											
10.5											
11.0				CR						21.00	0.00
11.5											
12.0											
12.5	CR						41.00	25.00			
13.0											
13.5											
14.0	CR						38.00	30.00			
14.5											
15.0											

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-129	LOCATION	Utility Bldg.	TYPE OF RIG		HYDRAULIC						
BOREHOLE DEPTH, m		10.00	CO-ORDINATES E	398	DRILLING METHOD		ROTARY						
GROUND WATER TABLE		9.00	CO-ORDINATES N	1726	CASING DEPTH, m		6.00						
START DATE		25/02/2023	GROUND ELEVATION	281.081	CORE DIAMETER		54 mm						
END DATE		25/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm						
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE				
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %		
0.5		0.00m to 0.25m , Filled up soil		DS-1									
1.0		0.25m to 2.00m , Yellowish brown poorly graded silty sand non-plastic											
1.5				SPT-1	2	3	3	6					
2.0		2.00m to 3.50m , Yellowish brown silty sand , non-plastic											
2.5													
3.0				SPT-2	4	8	17	25					
3.5		3.50m to 8.00m ,Yellowish brown silty clay of low plasticity											
4.0													
4.5				SPT-3	18	29	43	72					
5.0													
5.5													
6.0				SPT-4	31	50 (4cm)		REF					
6.5													
7.0													
7.5		8.00m to 10.00m , Yellowish brown poorly graded silty sand non-plastic		SPT-5	50 (13cm)			REF					
8.0													
8.5													
9.0				SPT-6	50 (2cm)			REF					
9.5													
10.0				SPT-7	50 (4cm)			REF					

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.									
BOREHOLE NO.		DBH-131		LOCATION		CT-02		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		20.00		CO-ORDINATES E		404		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		1.86		CO-ORDINATES N		862		CASING DEPTH, m		6.00			
START DATE		05/03/2023		GROUND ELEVATION		270.302		CORE DIAMETER		54 mm			
END DATE		05/03/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 0.50m , Filled up soil				DS-1							
1.0		0.50m to 5.00m, Yellowish brown clayey sand of intermediate plasticity											
1.5						SPT-1	4	6	8	14			
2.0													
2.5													
3.0						SPT-2	3	6	7	13			
3.5													
4.0													
4.5						SPT-3	4	7	9	16			
5.0		5.00m to 10.50m , Yellowish brown silty sand , non-plastic											
5.5													
6.0	SPT-4					8	13	14	27				
6.5													
7.0													
7.5	SPT-5					50 (13cm)			REF				
8.0													
8.5													
9.0	SPT-6					50 (2cm)			REF				
9.5													
10.0		10.50m to 13.50m , Yellowish brown highly weathered and very poor silty sand stone											
10.5	SPT-7					50 (5cm)			REF				
11.0	SPT-8/CR-1					50 (6cm)			REF		28.00	23.00	
11.5													
12.0													
12.5		SPT-9/CR-2	51 (8cm)			REF		26.00	7.00				
13.0		13.50m to 19.50m, Yellowish brown silty sand , non-plastic											
13.5													
14.0													
14.5													
15.0													

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-131	LOCATION	CT-02	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	404	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.86	CO-ORDINATES N	862	CASING DEPTH, m		6.00				
START DATE		05/03/2023	GROUND ELEVATION	270.302	CORE DIAMETER		54 mm				
END DATE		05/03/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
15.5		13.50m to 19.50m, Yellowish brown silty sand , non-plastic									
16.0				SPT-11	50 (4cm)			REF			
16.5											
17.0											
17.5											
18.0				SPT-12	50 (7cm)			REF			
18.5											
19.0											
19.5				SPT-13	50 (3cm)			REF			
20.0		19.50m to 20.00m , Grayish brown fresh and fair silty sand stone		CR-3					93.00	66.00	

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-132	LOCATION	Crusher House	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	1409.775	DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10	CO-ORDINATES N	1353.691	CASING DEPTH, m		6.00				
START DATE		27/02/2023	GROUND ELEVATION	277.235	CORE DIAMETER		54 mm				
END DATE		27/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 0.85m , Filled up soil		DS-1							
1.0											
1.5		UDS-1									
2.0											
2.5											
3.0		SPT-1	2	3	7	10					
3.5											
4.0											
4.5		SPT-2	2	2	4	6					
5.0											
5.5											
6.0		SPT-3	7	7	8	15					
6.5											
7.0											
7.5		SPT-4	4	6	7	13					
8.0											
8.5											
9.0	SPT-5	50 (10cm)			REF						
9.5		9.00m to 10.50m, Reddish brown highly weathered and very poor sand stone		CR-1						36.00	0.00
10.0											
10.5											
11.0		10.50m to 20.00m, Yellowish brown silty clay of inermediate plasticity									
11.5											
12.0				SPT-6	50 (6cm)			REF			
12.5											
13.0											
13.5				SPT-7	50 (8cm)			REF			
14.0											
14.5											
15.0				SPT-8	50 (4cm)			REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD															
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.														
BOREHOLE NO.		DBH-132	LOCATION	Crusher House	TYPE OF RIG		HYDRAULIC										
BOREHOLE DEPTH, m		20.00	CO-ORDINATES E	1409.775	DRILLING METHOD		ROTARY										
GROUND WATER TABLE		2.10	CO-ORDINATES N	1353.691	CASING DEPTH, m		6.00										
START DATE		27/02/2023	GROUND ELEVATION	277.235	CORE DIAMETER		54 mm										
END DATE		27/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE		150 mm										
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE			SAMPLE TYPE	SPT N-VALUE				ROCK CORE								
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %						
15.5	10.50m to 20.00m, Yellowish brown silty clay of intermediate plasticity																
SPT-9											50 (5cm)			REF			
SPT-10											50 (4cm)			REF			
SPT-11											50 (5cm)			REF			
SPT-12											50 (4cm)			REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.								
BOREHOLE NO.		DBH-133	LOCATION	MCC CHP	TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00	CO-ORDINATES E	1298.691	DRILLING METHOD	ROTARY					
GROUND WATER TABLE		3.10	CO-ORDINATES N	1426.882	CASING DEPTH, m	6.00					
START DATE		23/02/2023	GROUND ELEVATION	281.201	CORE DIAMETER	54 mm					
END DATE		23/02/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm					
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
					N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %
0.5		0.00m to 1.20m , Filled up soil		DS-1							
1.0											
1.5		1.20m to 5.00m, Yellowish brown clayey sand of intermediate plasticity whith gravwls		SPT-1	3	4	4	8			
2.0											
2.5											
3.0				SPT-2	6	7	8	15			
3.5											
4.0											
4.5				SPT-3	5	5	7	12			
5.0											
5.5		5.00m to 15.00m, Yellowish brown clayey sand of intermediate plasticity									
6.0				SPT-4	5	9	7	16			
6.5											
7.0											
7.5				SPT-5	6	7	8	15			
8.0											
8.5											
9.0				SPT-6	41	50 (8cm)		REF			
9.5											
10.0											
10.5				SPT-7	50 (13cm)			REF			
11.0											
11.5											
12.0				SPT-8	50 (12cm)			REF			
12.5											
13.0											
13.5	SPT-9	50 (8cm)			REF						
14.0											
14.5											
15.0		SPT-10	50 (6cm)			REF					

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD											
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-134		LOCATION		TP		TYPE OF RIG		HYDRAULIC			
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1400		DRILLING METHOD		ROTARY			
GROUND WATER TABLE		3.10		CO-ORDINATES N		1455		CASING DEPTH, m		6.00			
START DATE		22/02/2023		GROUND ELEVATION		276.588		CORE DIAMETER		54 mm			
END DATE		22/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm			
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE		
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %
0.5		0.00m to 1.25m , Filled up soil				DS-1							
1.0													
1.5		1.25m to 6.50m , Yellowish brown silty clay of intermediate plasticity				SPT-1	3	5	6	11			
2.0													
2.5													
3.0						SPT-2	6	8	7	15			
3.5													
4.0						UDS-1							
4.5						SPT-3	6	8	10	18			
5.0													
5.5													
6.0						SPT-4	10	9	11	20			
6.5													
7.0		6.50m to 8.00m , Reddish brown silty sand , non-plastic											
7.5						SPT-5	9	10	12	22			
8.0													
8.5		8.00m to 9.00m , Yellowish brown highly weathered and very poor silty sand stone				CR-1						34.00	0.00
9.0													
9.5		9.00m to 15.00m, Yellowish brown silty sand, non-plastic											
10.0													
10.5						SPT-6	50 (10cm)			REF			
11.0													
11.5													
12.0						SPT-7	50 (12cm)			REF			
12.5													
13.0													
13.5						SPT-8	50 (8cm)			REF			
14.0													
14.5													
15.0						SPT-9	17	50 (10cm)		REF			

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-135		LOCATION		H2 Plant		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		10.00		CO-ORDINATES E		1432		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10		CO-ORDINATES N		1637		CASING DEPTH, m		6.00				
START DATE		27/02/2023		GROUND ELEVATION		282.132		CORE DIAMETER		54 mm				
END DATE		28/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	RQD, %	
0.5		0.00m to 0.50m , Filled up soil				DS-1								
1.0		0.50m to 10.00m, Yellowish brown silty clay of low plasticity												
1.5						SPT-1	5	6	7	13				
2.0														
2.5														
3.0						SPT-2	10	13	17	30				
3.5														
4.0														
4.5						SPT-3	39	50 (6cm)		REF				
5.0														
5.5														
6.0						SPT-4	47	50 (12cm)		REF				
6.5														
7.0														
7.5						SPT-5	50 (3cm)			REF				
8.0														
8.5														
9.0						SPT-6	50 (5cm)			REF				
9.5														
10.0						SPT-7	50 (6cm)			REF				

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE	Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.											
BOREHOLE NO.		DBH-136		LOCATION		CASPH		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		794		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		2.10		CO-ORDINATES N		994		CASING DEPTH, m		3.50				
START DATE		22/02/2023		GROUND ELEVATION		276.195		CORE DIAMETER		54 mm				
END DATE		23/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.78m , Filled up soil				DS-1								
1.0														
1.5		0.78m to 5.00m , Grayish brown silty clay of low plasticity				SPT-1	2	3	5	8				
2.0														
2.5														
3.0						SPT-2	5	6	6	12				
3.5														
4.0														
4.5						UDS-1								
5.0						SPT-3	6	7	8	15				
5.5		5.00m to 13.50 , Yellowish brown silty clay of intermediate plasticity with traces of gravels												
6.0						SPT-4	8	10	11	21				
6.5														
7.0														
7.5						SPT-5	10	13	14	27				
8.0														
8.5														
9.0						SPT-6	7	10	17	27				
9.5														
10.0														
10.5						SPT-7	12	19	22	41				
11.0														
11.5														
12.0						SPT-8	14	17	27	44				
12.5														
13.0														
13.5						SPT-9	15	50 (7cm)	-	REF				
14.0		13.50m to 15.00m , Reddish brown slightly weathered poor silty sand stone				CR					86.00	47.00		
14.5														
15.0														

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

		M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD												
		PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.										
BOREHOLE NO.		DBH-137		LOCATION		DM Tank		TYPE OF RIG		HYDRAULIC				
BOREHOLE DEPTH, m		15.00		CO-ORDINATES E		1064		DRILLING METHOD		ROTARY				
GROUND WATER TABLE		1.95		CO-ORDINATES N		831		CASING DEPTH, m		2.50				
START DATE		01/02/2023		GROUND ELEVATION		276.332		CORE DIAMETER		54 mm				
END DATE		04/02/2023		CIRCULATION FLUID		WATER		DIAMETER OF HOLE		150 mm				
DEPTH		VISUAL DESCRIPTION OF SOIL SAMPLE				SAMPLE TYPE	SPT N-VALUE				ROCK CORE			
							N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY	ROD, %	
0.5		0.00m to 0.35m , Filled up soil				DS								
1.0		0.35m to 9.00m , Yellowish brown silty sand with traces of gravels non-plastic												
1.5						SPT	3	4	6	10				
2.0														
2.5														
3.0						SPT	5	5	7	12				
3.5														
4.0														
4.5						SPT	4	5	8	13				
5.0														
5.5														
6.0						SPT	6	10	13	23				
6.5														
7.0														
7.5						SPT	32	37	47	84				
8.0														
8.5														
9.0	SPT					36	50 (6cm)		REF					
9.5		9.00m to 15.00m , Yellowish brown sandy clay of intermediate plasticity with traces of gravels												
10.0														
10.5						SPT	50 (12cm)			REF				
11.0														
11.5														
12.0						SPT	50 (11cm)			REF				
12.5														
13.0														
13.5						SPT	50 (10cm)			REF				
14.0														
14.5														
15.0	SPT	50 (6cm)			REF									

Receipt No : 292420/2024/PS-HQ-HRM

APPENDIX: 2 FIELD BORELOG

M.K. SOIL TESTING LABORATORY PVT. LTD., AHMEDABAD									
PROJECT TITLE		Geotechnical Investigation work for Plant Area and Ash Pipeline Corridor including Nala Crossing for Singrauli Super Thermal Power Project, Stage III, Shaktinagar.							
BOREHOLE NO.	DBH-138	LOCATION	ID Fan U#6	TYPE OF RIG	HYDRAULIC				
BOREHOLE DEPTH, m	15.00	CO-ORDINATES E	783	DRILLING METHOD	ROTARY				
GROUND WATER TABLE	1.50	CO-ORDINATES N	1165	CASING DEPTH, m	2.50				
START DATE	31/12/2022	GROUND ELEVATION	276.116	CORE DIAMETER	54 mm				
END DATE	02/01/2023	CIRCULATION FLUID	WATER	DIAMETER OF HOLE	150 mm				
DEPTH	VISUAL DESCRIPTION OF SOIL SAMPLE		SAMPLE TYPE	SPT N-VALUE				ROCK CORE	
				N1	N2	N3	N	CORE LENGTH cm	CORE RECOVERY
0.5	0.00m to 0.50m, Filled up soil		DS						
1.0	0.50m to 5.00m, Yellowish brown clayey sand of high plasticity								
1.5			SPT	3	4	5	9		
2.0									
2.5									
3.0			SPT	3	4	6	10		
3.5									
4.0									
4.5			SPT	5	6	8	14		
5.0									
5.5	5.00m to 7.50m, Yellowish brown silty sand ,Non plastic								
6.0			SPT	6	7	11	18		
6.5									
7.0									
7.5			SPT	8	20	31	51		
8.0	7.50m to 9.50, Brown clayey sand of high plasticity								
8.5									
9.0			SPT	15	24	35	59		
9.5									
10.0	9.50m to 15.00, Moderately to slightly weathered, very poor to poor brown silty sandstone		CR					82.00	30.00
10.5									
11.0			CR					62.00	15.00
11.5									
12.0									
12.5			CR					66.00	20.00
13.0									
13.5									
14.0			CR					77.00	18.00
14.5									
15.0									