



SWAYIN & ASSOCIATES

77, Satyanagar, Bhubaneswar - 751 007

SOIL RESISTIVITY TEST CHART

PROJECT : 2x800 MW KSTPS

CLIENT : RHEL

Sl. No.	ERT No.	Date	Chainage	Location	Coordinate	Spacing in mtr.	Resistance in Ω mtr.
1	2	3	4	5	6	7	8
01	10	25/12/23		Koderma		1.m	0.67
						3.m	0.11
						10.m	0.04
02	09	11		11		1.m	0.54
						3.m	0.13
						10.m	0.03
03	07	11		11		1.m	0.85
						3.m	0.19
						10.m	0.08
04	05	11		11		1.m	0.96
						3.m	0.27
						10.m	0.08
05	03	29/12/23		11		1.m	1.11
						3.m	0.39
						10.m	0.14
07	01	11		11		1.m	1.06
						3.m	0.27
						10.m	0.12
08	04	11		11		1.m	0.92
						3.m	0.27
						10.m	0.03
09	06	11		11		1.m	0.87
						3.m	0.14
						10.m	0.05
10	02	11		11		1.m	0.114
						3.m	0.38
						10.m	0.10

Minish Kumar
Minish Kumar

Swayin & Associates

CLIENT

SWAYIN & ASSOCIATES

PLATE LOAD TEST RESULTS

Client: <u>BHEL</u>					DOS: <u>24/12/23</u>	
Co-ordinate:					DOC: <u>24/12/23</u>	
Size of the plate: <u>450x450x25mm</u>						
Plate Loading Test No. <u>01</u>					Depth:	
Location: <u>Kodeema Jharkhand</u>					RL-	
Sl. No.	Date	Time	Pressure at plate level (Kg/cm ²)	Load Intensity (Kn/m ²)	Dial Gauge Readings	
					D1	D2
1	2	3	4	5	6	7
01	24/12/23	9:01	14 Kg/cm ²	49 KN/m ²	0.78	0.75
02		9:25			0.96	0.92
03		9:04			1.16	1.12
04		9:06.25			1.48	1.42
05		9:09			1.59	1.55
06		9:16			1.87	1.83
07		9:25			2.11	2.09
08		10:00			2.57	2.53
09	24/12/23		28 Kg/cm ²	98 KN/m ²		
10		10:01			2.72	2.67
11		10:25			2.90	2.85
12		10:04			3.18	3.13
13		10:06.25			3.95	3.91
14		10:09			4.15	4.12
15		10:16			4.68	4.63
16		10:25			5.80	5.94
17		11:00			5.40	5.33
18	24/12/23		56 Kg/cm ²	198 KN/m ²		
19		11:01			6.11	6.07
20		11:02.25			6.42	6.37
21		11:04			6.93	6.89
22		11:06.25			7.42	7.37
23		11:09			7.88	7.83
24		11:16			8.12	8.07
25		11:25			8.77	8.72
26		12:00			9.24	9.20
27	24/12/23		70 Kg/cm ²	245 KN/m ²		

CLIENT

Dr. Anurag Kumar
Miner & Engineer

SWAYIN & ASSOCIATES

PLATE LOAD TEST RESULTS

Client: BHIL

Co-ordinate:

Size of the plate: 450 x 450 x 25 mm

Plate Loading Test No.

Location: Koderma Jharkhand

DOS:

DOC:

Depth:

RL-

Sl. No.	Date	Time	Pressure at plate level (Kg/cm ²)	Load Intensity (Kn/m ²)	Dial Gauge Readings	
					D1	D2
1	2	3	4	5	6	7
		12.01	70 Kg/cm ²			
		12.02.25			9.48	9.43
		12.04			9.86	9.82
		12.06.25			10.25	9.21
		12.09			10.47	10.42
		12.16			10.96	10.92
		12.25			11.24	11.19
		12.02			11.59	11.55
	24/12/23		841 Kg/cm ²	294 Kn/m ²	11.93	11.88
		13.01			12.25	12.20
		13.02.25			12.48	12.42
		13.04			12.88	12.83
		13.06.25			12.99	12.95
		13.09			13.20	13.15
		13.16			13.60	13.56
		13.25			13.87	13.81
		14.00			14.05	13.99
	24/12/23		98 Kg/cm ²	343 Kn/m ²		
		14.01			14.25	14.20
		14.02.25			14.47	14.40
		14.04			14.82	14.78
		14.06.25			15.12	15.07
		14.09			15.31	15.30
		14.16			15.57	15.51
		14.25			15.97	15.92
		15.00			16.24	16.19
	24/12/23		112 Kg/cm ²	392 Kn/m ²		

CLIENT

Praveen Kumar
S&A

SWAYIN & ASSOCIATES

PLATE LOAD TEST RESULTS

Client: BHEL		PLATE LOAD TEST RESULTS				
Co-ordinate:		DOS: 24/12/23				
Size of the plate: 450 x 450 x 25 mm		DOC: 24/12/23				
Plate Loading Test No.		Depth:				
Location: Koderma - Jharkhand		RL-				
Sl. No.	Date	Time	Pressure at plate level (Kg/cm ²)	Load Intensity (Kn/m ²)	Dial Gauge Readings	
1	2	3	4	5	D1	D2
		15:01			16.49	16.44
		15:02:25			16.87	16.83
		15:04			17.40	17.35
		15:06:25			17.76	17.71
		15:09			18.05	17.98
		15:16			18.37	18.31
		15:25			18.59	18.54
		16:00			18.91	18.86
	24/12/23		126 Kg/cm ²	441 Kn/m ²		
		16:01			19.22	19.17
		16:02:25			19.44	19.39
		16:04			19.87	19.82
		16:06:25			20.14	20.09
		16:09			20.62	20.57
		16:16			20.96	20.90
		16:25			21.29	21.22
		17:00			21.49	21.45
	24/12/23		140 Kg/cm ²	490 Kn/m ²		
		17:01			21.68	21.63
		17:02:25			21.81	21.77
		17:04			21.99	21.93
		17:06:25			22.20	22.16
		17:09			22.36	22.30
		17:16			22.59	22.53
		17:25			22.87	22.84
		18:00			23.02	22.98

CLIENT

Pradeep Singh
S&A
Kumar

SWAYIN & ASSOCIATES

PLATE LOAD TEST RESULTS

CHIT

Coordinating

Size of the mold

Photocopying 105114

Location:

Proctor & Smith, James W. & Mary

008	2841192
006	21412173
Depth	
File	

Dagbladet

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1000

Presented at 10/15/91
(Hull 600)

1941/1942

01 02
01 02
01 02

1	2	3	4	5	6	7
24/12/23	18:01	18:06.25	180 Kg/cm ²	620Kwh/m ²	23.32	23.24
	18:04				23.61	23.50
	18:06.25				23.96	23.92
	18:09				24.25	24.20
	18:16				24.38	24.33
	18:25				24.69	24.62
	19:00				24.94	24.91
					25.25	25.19

CLIENT

Dr. J. R. SBA

SWAYIN & ASSOCIATES

PLATE LOAD TEST RESULTS

Client: BMEL				DOS: 25/12/23	
Co-ordinate:				DOC: 25/12/23	
Size of the plate: 1500x450x25 mm				Depth:	
Plate Loading Test No: 6 P1-T01				RL:	
Location: Madhyama				Dial Gauge Readings	
Sl. No.	Date	Time	Pressure at plate level (Kg/cm ²)	Load Intensity (Kn/m ²)	D1 D2
1	2	3	4	5	6 7
01	25/12/23	8:01	14 kg/cm ²	149 Kn/m ²	6.74 0.70
02		8:25			0.89 0.86
03		8:04			1.14 1.12
04		8:025			1.36 1.32
05		8:09			1.74 1.70
06		9:16			2.10 2.06
07		9:25			2.38 2.32
08		9:00			2.45 2.41
09					
10	25/12/23	9:01	28 kg/cm ²	92 Kn/m ²	2.68 2.64
11		9:25			2.99 2.96
12		9:44			3.21 3.19
13		9:6:25			3.47 3.43
14		9:09			3.68 3.65
15		9:16			3.99 3.96
16		9:25			4.20 4.17
17		10:00			4.60 4.55
18			56 kg/cm ²	196 Kn/m ²	
19	25/12/23	10:01			4.97 4.94
20		10:25			5.20 5.17
21		10:04			5.44 5.42
22		10:6:25			5.87 5.83
23		10:09			6.10 6.06
24		10:16			6.44 6.42
25		10:25			6.78 6.72
26		11:00			6.99 6.94
27	25/12/23		70 kg/cm ²	196 Kn/m ²	

CLIENT

Handwritten signature: *W. J. ...*

SWAYIN & ASSOCIATES

PLATE LOAD TEST RESULTS

Client: <u>BHEL</u>					DOS: <u>25/12/23</u>	
Co-ordinate:					DOC: <u>25/12/23</u>	
Size of the plate: <u>450x450x25mm</u>						
Plate Loading Test No. <u>PLT 01</u>					Depth:	
Location: <u>Koderma</u>					RL-	
Sl. No.	Date	Time	Pressure at plate level (Kg/cm ²)	Load Intensity (KN/m ²)	Dial Gauge Readings	
					D1	D2
1	2	3	4	5	6	7
28	25/12/23	11:01	70 Kg/cm ²	196 KN/m ²	7.24	7.20
29		11:25			7.48	7.44
30		11:04			7.56	7.62
31		11:625			7.93	7.89
32		11:09			8.25	8.21
33		11:16			8.47	8.42
34		11:25			8.92	8.87
35		12:00			9.25	9.21
36	25/12/23		84 Kg/cm ²	294 KN/m ²		
37		12:01			9.48	9.44
38		12:25			9.88	9.84
39		12:04			10.16	10.12
40		12:625			10.38	10.34
41		12:09			10.50	10.46
42		12:16			10.87	10.83
43		12:25			11.04	11.01
44		13:00			11.39	11.35
45	25/12/23		98 Kg/cm ²	343 KN/m ²		
46		13:01			11.74	11.70
47		13:25			12.06	12.02
48		13:04			12.27	12.24
49		13:625			12.24	12.20
50		13:09			12.48	12.45
51		13:16			12.68	12.64
52		13:25			12.99	12.95
53		14:00			13.36	13.32
54			112 Kg/cm ²	392 KN/m ²		

CLIENT

Prashant Kumar

SWAYIN & ASSOCIATES

PLATE LOAD TEST RESULTS

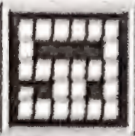
Client:					DOS:	
Co-ordinate:					DOC:	
Size of the plate: 450 X 450 X 25mm					Depth:	
Plate Loading Test No. 450 X 450 X 25mm					RL-	
Location: Koderma					Dial Gauge Readings	
Sl. No.	Date	Time	Pressure at plate level (Kg/cm ²)	Load Intensity (Kn/m ²)	D1	D2
1	2	3	4	5	6	7
55	25/12/23	14:01	112 Kg/cm ²	392 Kn/m ²	13.56	13.52
56		14:22.5			13.87	13.83
57		14:04			14.18	14.14
58		14:25			14.47	14.43
59		14:09			14.65	14.61
60		14:16			14.82	14.78
61		14:25			15.12	15.08
62		14:50			15.28	15.34
63	25/12/23		126 Kg/cm ²	441 Kn/m ²		
64		15:01			15.64	15.60
65		15:22.5			15.89	15.85
66		15:04			16.11	16.08
67		15:25			16.39	16.34
68		15:09			16.68	16.64
69		15:16			16.87	16.84
70		15:25			17.10	17.06
71		16:00			17.38	17.34
72	25/12/23		140 Kg/cm ²	490 Kn/m ²		
73		16:01			17.62	17.58
74		16:22.5			17.86	17.82
75		16:04			18.07	18.04
76		16:25			18.32	18.28
77		16:09			18.64	18.60
78		16:16			18.97	18.93
79		16:25			19.20	19.16
80		17:00			19.43	19.39
81	25/12/23		180 Kg/cm ²	630 Kn/m ²		

CLIENT

Amresh
Mishra
S&A
Koderma

PLATE LOAD TEST RESULTS

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SWAYIN & ASSOCIATES

77, Satyanagar, Bhubaneswar - 751 007

SOIL RESISTIVITY TEST CHART

PROJECT : DU 900 1000 VTPS

CLIENT : ECHL

Sl. No.	ERT No.	Date	Chainage	Location	Coordinate	Spacing in mtr.	Resistance in Ω mtr.
1	2	3	4	5	6	7	8
01	10	25/12/23		2600500		1.0m	0.67
						3.0m	0.11
						10.0m	0.04
02	09	11		11		1.0m	0.54
						3.0m	0.13
						10.0m	0.03
03	07	11		11		1.0m	0.85
						3.0m	0.19
						10.0m	0.08
04	05	11		11		1.0m	0.96
						3.0m	0.27
						10.0m	0.08
05	03	29/12/23		11		1.0m	1.11
						3.0m	0.39
						10.0m	0.14
06	01	11		11		1.0m	1.06
						3.0m	0.27
						10.0m	0.12
08	04	11		11		1.0m	0.92
						3.0m	0.27
						10.0m	0.03
09	06	11		11		1.0m	0.87
						3.0m	0.14
						10.0m	0.05
10	02	11		11		1.0m	0.114
						3.0m	0.38
						10.0m	0.10

Engr. Anish Kumar

Swayin & Associates

CLIENT

SWAYIN & ASSOCIATES

77, SATYANAGAR, BHUBANESWAR
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Web Site : www.swayinassociates.com

BORELOG DATA SHEET

PROJECT :- RaBodma KPS BORE HOLE NO. :- 15

DATE OF START :- 28/12/23

LOCATION :- Kadema

SHEET NO. :- 0

DATE OF COMPL :- 28/12/23

CLIENT :- BHEL

WATER LEVEL :- 1.96 mtr

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Cone Ratio	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Sandy clay	0.5	DS	01					
1.00				1.0	SPT	01					
2.00				2.0	SPT	02					
2.50				2.5	DS	02					
3.00				3.0	SPT	03					
4.00				4.0	SPT	04					
4.50				4.5	DS	03					
5.00				5.0	SPT	05					
6.00				6.0	SPT	06					
6.50				6.5	DS	04					
7.00			Hard Rock	8.0	CS	01					
9.00				9.5	CS	02					
11.00				11.0	CS	03					
11.50				11.5	CS	04					
12.00			BH terminated At Depth 11.5 mtr								
13.00											
14.00											
15.00											

SIGN OF THE CLIENT

For SWAYIN & ASSOCIATES
[Signature]
Prakash Kumar



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BORELOG DATA SHEET

PROJECT : AXSOMWKT BORE HOLE NO. :- 12 DATE OF START :- 28/12/20
LOCATION :- Kadema SHEET NO. :- 02 DATE OF COMPL :- 28/12/20
CLIENT :- BHEL WATER LEVEL :- 3.0m R.L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	G.W. OBSER	Core Recor- ery	RQC %	RE- MARKS
				DEPTH	TYPE	NO					
1.05			Hard Rock								
1.16				16.5	CS	04				89% 72%	
1.27											
1.38			BH terminated at Depth 18.5 mtr	18.0	CS	05				96% 83%	
1.49	18.5			18.5	CS	06				89% 72%	
1.60											
1.71											
1.82											
1.93											
2.04											
2.15											
2.26											
2.37											
2.48											
2.59											
2.70											
2.81											
2.92											
3.03											

SIGN OF THE CLIENT

For SWAYIN & ASSOCIATES

(Signature)
Ramesh Kumar Jaiswal

SWAYIN & ASSOCIATES 77, SATYA NAGAR, BHUBANESWAR PHONE : (0674) 2570458, 2570059, 2570985, 9114057789 Web Site : www.swayinassociates.com				BORELOG DATA SHEET							
PROJECT :- <u>2x 30 m WTP</u>			BORE HOLE NO. :- <u>19</u>		DATE OF START :- <u>28/11/23</u>						
LOCATION :- <u>Moderna</u>			SHEET NO. :- <u>01</u>		DATE OF COMPL :- <u>28/12/23</u>						
CLIENT :- <u>RHEL</u>			WATER LEVEL :- <u>3.0 mtr</u>		R. L. :-						
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			<u>Sandy clay</u>	0.5	CS	01					
1.00				1.0	SPT	01					
2.00				2.0	SPT	02					
2.50				2.5	DS	02					
3.00				3.0	SPT	03					
4.00				4.0	SPT	04					
4.50				4.5	DS	03					
5.00				5.0	SPT	05					
6.00				6.0	SPT	06					
6.50				6.5	DS	04					
7.00				7.0	SPT	07					
8.00	<u>8.0</u>		<u>Sand</u>	8.0	SPT	08					
8.50				8.5	DS	04					
9.00				9.0	SPT	09					
10.00				10.0	SPT	10					
10.50				10.5	DS	05					
11.00	<u>11.0 mtr</u>		<u>Soft Rock</u>	11.0	SPT	11					
12.00				12.5	CS	01					
13.00				13.5	CS	02					
14.00	<u>13.5 m</u>		<u>Hard Rock</u>								
15.00				15.0	CS	03					

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

[Signature]
Minesh Kumar



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SWAYIN & ASSOCIATES

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BORELOG DATA SHEET

PROJECT : ax800mwKTPS BORE HOLE NO. :- 02 DATE OF START :- 20/12/23
LOCATION :- Indrapur SHEET NO. :- 01 DATE OF COMPL :- 20/12/23
CLIENT :- BHEL WATER LEVEL :- 2.20 mtr R.L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	G.W. DEPTH	CORE RECOVERY %	RCE %	RE MARKS
				DEPTH	TYPE	NO.					
0.00				0.5	DS	01					
1.00			Sandy clay	1.0	SPT	01					$12 + 14 + 14 = 40$
2.00				2.0	SPT	02					$14 + 32 + 22 = 68$
2.50				2.5	DS	03					
3.00				3.0	SPT	03					$17 + 21 + 24 = 62$
4.00				4.0	SPT	04					$17 + 14 + 20 = 51$
4.50				4.5	DS	03					
5.00				5.0	SPT	05					$20 + 23 + 21 = 64$
6.00				6.0	SPT	06					$20 + 22 + 32 = 74$
6.50				6.5	DS	04					
7.00	7.0m		soft Rock	7.0	SPT	07					7/100
8.00	8.0m			8.0	SPT	08					7/100
9.00			Hard Rock	9.5	CS	01					94/67%
10.00				11.0	CS	02					96/87%
12.00				12.5	CS	03					86/82%
13.00	13.0m		BH terminated at Depth 13.0mtr	13.0	CS	04					59/82%
14.00											
15.00											

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

Mitesh Kumar Jaiswal

SWAYIN & ASSOCIATES

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BORELOG DATA SHEET

PROJECT : 255000 KTD BORE HOLE NO. : SBH-01 DATE OF START : 30/12/23
LOCATION : Kodavara SHEET NO. : 01 DATE OF COMPL : 30/12/23
CLIENT : SPCL WATER LEVEL : 2.90012 R. L. :-

DEPTH IN METRES	DEPTH OF CHANGE OF STRATA	SPM STARTS	DESCRIPTION OF SAMPLE	SAMPLE			N VALUE	G. W. DEPTH	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Clay Sand	0.5	SP	01					
1.00				10	SPT	01					
2.00				20	SPT	02					
3.00				2.5	DS	02					
4.00				5.0	SP	03					
4.00	4.0m		Sandy clay	4.0	SP	04					
5.00				4.5	DS	03					
6.00				5.0	SPT	05					
7.00				6.0	SP	06					
8.00				6.5	DS	04					
9.00				7.0	SPT	07					
10.00				8.0	SP	08					
11.00				8.5	DS	05					
12.00				9.0	SPT	09					
13.00				10.0	SPT	10					
14.00	10.0m		Soft Rock	10.5	DS	06					
15.00				11.5	CS	01					
16.00				13.0	CS	02					
17.00			BH terminated at depth 15.0m	14.5	CS	03					
18.00	15.0m			15.0	CS	04					

SIGN OF THE CLIENT

For SWAYIN & ASSOCIATES

Prakash Kumar Talasila

SWAYIN & ASSOCIATES

357A, NAGAR, BHILANESWAR
PHONE : 0674 251461, 251462, 251463, 251467, 251468
Web Site : WWW.SWAYINASSOCIATES.COM

BORELOG DATA SHEET

PROJECT : 2500000000 BORE HOLE NO. :- 13

DATE OF START :- 30/12/23

LOCATION : Madhwa SHEET NO. :- 01

DATE OF COMPL :- 30/12/23

CLIENT :- 8+2

WATER LEVEL :- 2.5m

R.L. :-

DEPTH IN MTRS	DEPTH OF CHANGE OF STRATA	BH STRATA	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	G.W. DETER	CORR RECOV BY	RCD %	RE- MARKS
				DEPTH	TYPE	NO					
1.00			Clay Sand with Boulder	0.5	DS	01					
1.50				1.0	SPT	01					
2.00				2.0	SPT	02					
2.50				2.5	DS	02					
3.00				3.0	SPT	03					
3.50	3.5m			3.5	DS	03					
4.00			Hard Rock	5.0	CS	01					
4.50				5.0	CS	01					
5.00				6.5	CS	02					
5.50				8.0	CS	03					
6.00	8.5m			8.5	CS	04					
6.50			Bore terminated At Depth 8.5 mtr								
7.00											
7.50											
8.00											
8.50											
9.00											
9.50											
10.00											
10.50											
11.00											
11.50											
12.00											
12.50											
13.00											
13.50											
14.00											
14.50											
15.00											

SIGN OF THE CLIENT

For SWAYIN & ASSOCIATES
mineral
survey
division

SWAYIN & ASSOCIATES 77, SATYA NAGAR, BHUBANESWAR PHONE : (0674) 2570458, 2570059, 2570985, 9114057789 Web Site : www.swayinassociates.com				BORELOG DATA SHEET							
PROJECT :- 2x80 Km KTP				BORE HOLE NO. :- 07			DATE OF START :- 22/12/23				
LOCATION :- Koderma				SHEET NO. :- 01			DATE OF COMPL :- 23/12/23				
CLIENT :- BHEL				WATER LEVEL :- 2.0 mtr			R. L. :-				
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE. MARKS
				DEPTH	TYPE	NO.					
0.00			Filling Soil Boulder	0.5	PS	01					
1.00	1.0 m		Soft Rock	1.0	SPT	01					
2.00				2.5	CS	01					
3.00										60% 43%	
4.00				4.0	CS	02				79% 56%	
5.00				5.5	CS	03				82% 58%	
6.00											
7.00				7.0	CS	04				78% 62%	
8.00	7.5		BH terminated At Depth 7.5 mtr	7.5	CS	05				84% 66%	
9.00											
10.00											
11.00											
12.00											
13.00											
14.00											
15.00											

SIGN. OF THE CLIENT

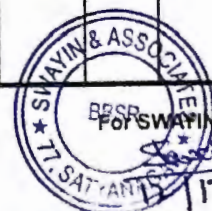
For SWAYIN & ASSOCIATES

Prakash
Prakash Kumar
Joshi Swal



SWAYIN & ASSOCIATES 77, SATYANAGAR, BHUBANESWAR PHONE : (0674) 2570458, 2570059, 2570985, 9114057789 Web Site : www.swayinassociates.com						BORELOG DATA SHEET					
PROJECT :- 2X800 MW KTES				BORE HOLE NO. :- 06		DATE OF START :- 10/12/23					
LOCATION :- Koderma				SHEET NO. :- 01		DATE OF COMPL :- 12/12/23					
CLIENT :- BHEL				WATER LEVEL :-		R. L. :-					
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00	0.50		clay sandy clay 	0.50	DS	01					
	0.50										
1.00											
	1.50				1.50	SPT	01	8+6+9=15			
2.00											
	2.50				2.50	DS	02				
3.00											
	3.00				3.00	SPT	02	7+6+6=12			
4.00											
	4.00				4.00	DS	03				
	4.50			4.50	SPT	03	7+9+8=17				
5.00											
	5.50			5.50	DS	04					
6.00											
	6.00			6.00	SPT	04	9+11+8=19				
7.00											
	7.00			7.00	DS	05					
	7.50			7.50	SPT	05	11+10+13=23				
8.00											
	8.50			8.50	DS	06					
9.00											
	9.00			9.00	SPT	06	10+14+15=29				
			strata change								
10.00				10.50	DS	07					
	10.50		soft rock								
11.00				11.00	DS	08					
	11.00		Hard rock								
12.00			Hard rock								
	12.50		Hard rock	12.50	CS	01	100%	72%	Bottom		
13.00			B.H Terminated at the depth of 12.50 mtr								
14.00											
15.00											

SIGN. OF THE CLIENT



FOR SWAYIN & ASSOCIATES

12/12/2023

SWAYIN & ASSOCIATES

77, SATYANAGAR, BH. JANECHINAP
PHONE : (0674) 2575443, 2575444, 2575445, 9114057789
Web Site : www.swayin.com / info@swayin.com

BORELOG DATA SHEET

PROJECT : IN PLOT FOR T.P. BORE HOLE NO. : 12H-24 DATE OF START : 22/12/23
LOCATION : Kodestry SHEET NO. : 01 DATE OF COMPL : 23/12/23
CLIENT : P.H.E.L WATER LEVEL : 2.90 MRP R.L. :

DEPTH MTRS	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	G. W DESE	CORR FOR % BY	RQD %	RE- MARKS
				DEPTH	TYPE	NO					
0.00			medium	1.0	SPT 01		17	13	20	33	
1.00				2.0	SPT 02		18	20	33	51	
2.00				3.0	SPT 03		19	23	32	55	
3.00	2.50m			4.0	SPT 04		15	17	17	34	
4.00			& sand clay	5.0	SPT 05		16	20	24	44	
5.00				5.5	ND 01						
6.00				6.0	SPT 06		18	23	24	47	
7.00				7.0	SPT 07		20	25	27	52	
8.00	9.0m			8.0	SPT 08		22	31	36	67	
9.00			clay	9.0	SPT 09		24	27	35	62	
10.00	10.0m			10.0	SPT 10		27	32	38	70	
11.00			BH terminated at Depth 10.0m								
12.00											
13.00											
14.00											
15.00											

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

Minesh Kumar Jaiswal

SWAYIN & ASSOCIATES

77, SATYANAGAR, BHUBANESWAR
PHONE : (0674) 2570453, 2570059, 2570985, 9114057789
Web Site : www.swayinassociates.com

BORELOG DATA SHEET

PROJECT :- 2x800 MW KTPS BORE HOLE NO. :- 3BH-06 DATE OF START :- 23/12/23
LOCATION :- Kaderna SHEET NO. :- 01 DATE OF COMPL :- 23/12/23
CLIENT :- BHEL WATER LEVEL :- 3.40 mtr R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Clay Sand	0.5	DS	01					
1.00				1.0	SPT	01					12+15+18=33
2.00				2.0	SPT	02					14+16+20=36
3.00				2.5	DS	02					
4.00				3.0	SPT	03					19+22+22=44
5.00			Clay Sand	4.0	SPT	04					18+18+25=43
6.00				4.5	DS	03					
7.00				5.0	SPT	05					19+26+29=55
8.00				6.0	SPT	06					20+25+32=57
9.00				6.5	DS	04					
10.00			Soft Rock	7.0	SPT	07					700 g/cm penetration
11.00				8.5	CS	01					73.6% 52%
12.00				10.0	CS	02					89% 54%
13.00				11.5	CS	03					82% 59%
14.00			BH terminated At Depth 12.0m	12.0	CS	04					77% 58%
15.00											

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

Praveen Kumar Jaiswal

SWAYIN & ASSOCIATES 77, SATYA NAGAR, BHUBANESWAR PHONE : (0674) 2570458, 2570088, 2570088, 8114057788 Web Site : www.swayinasociates.com				BORELOG DATA SHEET							
PROJECT : <u>2x800muk 75%</u>		BORE HOLE NO. : <u>1311-02</u>		DATE OF START : <u>22/10/22</u>							
LOCATION : <u>Kulem</u>		SHEET NO. : <u>01</u>		DATE OF COMPL : <u>21/11/22</u>							
CLIENT : <u>BHEL</u>		WATER LEVEL : <u>2.90 mtr</u>		R.L. :							
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			N VALUE	Q W OBSER	SPT Blows / m	HSD %	RQ RADIUS
				DEPTH	TYPE	NO					
0.00			MURROM	0.5	DS	01					
1.00				1.0	SPT	01			14 + 20 + 21 = 55		
2.00				2.0	SPT	02			18 + 24 + 26 = 68		
2.50				2.5	DS	02					
3.00				3.0	SPT	03			17 + 20 + 22 = 59		
3.00	3.0 m		clay sand	4.0	SPT	04			15 + 18 + 18 = 51		
4.00				4.5	DS	03					
5.00				5.0	SPT	05			17 + 20 + 20 = 57		
6.00				6.0	SPT	06			20 + 25 + 28 = 73		
6.50				6.5	DS	04					
7.00			clay	7.0	SPT	07			25 + 28 + 31 = 84		
8.00				8.0	SPT	08			24 + 29 + 32 = 85		
8.50				8.5	DS	05					
9.00				9.0	SPT	09			21 + 26 + 30 = 77		
10.00				10.0	SPT	10			100	9 cm penetration	
11.00			Soft Rock	10.5	DS	06					
12.00				11.5	CS	01			81% 59%		
13.00				12.5	DS						
13.00				13.0	CS	02			74% 61%		
14.00				14.5	CS	03			86% 67%		
15.00			BH terminated at Depth 15.0 mtr	15.0	CS	04			83% 59%		

SIGN OF THE CLIENT

FOR SWAYIN & ASSOCIATES

For Swayin & Associates
Thiruvananthapuram
21/11/22

SWAYIN & ASSOCIATES

77, SATYANAGAR, BHUBANESWAR
PHONE : (0674) 2670468, 2670059, 2670986, 9114057789
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BORELOG DATA SHEET

PROJECT :- 2x800mm K7P BORE HOLE NO. :- TBH-03

DATE OF START :- 22/12/23

LOCATION :- Deodermaj SHEET NO. :- 01

DATE OF COMPL :- 22/12/23

CLIENT :- PHEL WATER LEVEL :- 3.5 mab

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			mudroom	0.5	DS	01					
1.00				1.0	SPT	01	15+18+23=41				
2.00				2.0	SPT	02	14+17+24=41				
3.00				2.5	DS	02					
				3.0	SPT	03	20+26+29=53				
4.00				4.0	SPT	04	31+36+41=77				
5.00	4.5m		Clay Sand	4.5	DS	03					
6.00				5.0	SPT	05	20+24+25=45				
7.00				6.0	SPT	06	18+26+26=52				
8.00				6.5	DS	04					
9.00			clay Sand	7.0	SPT	07	16+21+27=48				
10.00				8.0	SPT	08	20+22+24=46				
11.00				8.5	DS	05					
				9.0	SPT	09	23+27+29=56				
12.00	12.0m		Soft Rock	10.0	SPT	10	25+31+36=67				
13.00				10.5	DS	06					
14.00				11.0	SPT	11	29+34+41=75				
15.00			Bt terminated	12.0	SPT	12	7 100 8cm penetration				
				12.5	DS	07					
				13.5	CS	01			12% Nil		
				15.0	CS	02			11.6% Nil		

SIGN. OF THE CLIENT

At Depth 15.0m

For SWAYIN & ASSOCIATES

Signature
minah Kumar
Jaiswal

SWAYIN & ASSOCIATES

77, SATYA NAGAR, BHUBANESWAR
PHONE : (0674) 2570458, 2570059, 2570985, 9114057789
Web Site : www.swayinassociates.com

BORELOG DATA SHEET

PROJECT :- ~~2x800mm KTPS~~ BORE HOLE NO. :- 03

DATE OF START :- 16/12/23

LOCATION :- ~~Koderma~~ SHEET NO. :- 01

DATE OF COMPL :- 17/12/23

CLIENT :- BHEL WATER LEVEL :- 4.5 MAR

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Sand	0.5	DS	01					
1.00	1.0			1.0	SPT	01	15				
2.00			Clay Sand	2.0	SPT	02	14				
3.00				2.5	DS	02					
4.00				3.0	SPT	03	12				
5.00	4.5			4.0	SPT	04	17				
6.00			DI Soft Rock	4.5	DS	03					
7.00				5.0	SPT	05	> 100		8 cm penetration		
8.00				6.0	SPT	06	> 100		7 cm penetration		
9.00				7.5	CS	01			8% Nil		
10.00				9.0	CS	02			59% 50.53%		
11.00				10.5	CS	03			63% 52%		
12.00				12.0	CS	04			70% 62.66%		
13.00	12.5			12.5	CS	05			82% 61%		
14.00											
15.00											
			BH terminated At Depth 12.5 MAR								

SIGN. OF THE CLIENT

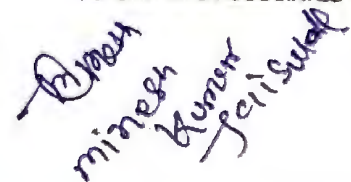
For SWAYIN & ASSOCIATES

(Signature)
Minesha Kumar
Jaiswal

SWAYIN & ASSOCIATES 77, SATYA NAGAR, BHUBANESWAR PHONE : (0674) 2570458, 2570059, 2570985, 9114057789 Web Site : www.swayinassociates.com					BORELOG DATA SHEET						
PROJECT :- <u>2X BUDMW KPS</u> BORE HOLE NO. :- <u>14</u>					DATE OF START :- <u>23/11/23</u>						
LOCATION :- <u>Koderna</u> SHEET NO. :- <u>01</u>					DATE OF COMPL :- <u>23/11/23</u>						
CLIENT :- <u>BHEL</u> WATER LEVEL :- <u>3.4mtr</u>					R. L. :-						
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			<u>Sand</u>	0.5	DS	01					
1.00				1.0	SPT	01					
2.00				2.0	SPT	02					
2.50				2.5	DS	02					
3.00				3.0	SPT	03					
4.00				4.0	SPT	04					
4.50				4.5	DS	03					
5.00			<u>Sand</u>	5.0	SPT	05					
6.00				6.0	SPT	06					
6.50				6.5	DS	04					
7.00				7.0	SPT	07					
8.00	<u>8.0m</u>		<u>Soft Rock</u>	8.0	SPT	08					
8.50				8.5	DS	05					
9.00				9.0	SPT	09					
10.00			<u>do</u>	10.5	CS	01					
11.00				12.0	CS	02					
12.00				13.5	CS	03					
13.00				15.0	CS	04					
14.00			BH terminate At Depth 15mtr								
15.00	<u>8.0m</u>										

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES


 Minesh Kumar Jaiswal



SWAYIN & ASSOCIATES 77, BAYANAGAR, BHILANECHWAR PHONE : (0874) 2470444, 2470066, 2470084, 9114457785 Web Site : www.swayinassociates.com				BORELOG DATA SHEET								
PROJECT : <u>248 PMW KTR</u>		BORE HOLE NO. : <u>E BH-9</u>		DATE OF START : <u>24/12/23</u>								
LOCATION : <u>Kodernag</u>		SHEET NO. : <u>01</u>		DATE OF COMPL : <u>24/12/23</u>								
CLIENT : <u>BHEL</u>		WATER LEVEL : <u>0.90 mtd</u>		P.L. : <u></u>								
DEPTH IN MTRS	DEPTH OF CHANGE OF STRATA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	C.N. PRESS	CUTTING SPEED (m/min)	RCL %	RE (m/min)	
				DEPTH	TYPE	NO.						
0.00			sand	0.5	DS	01						
1.00				1.0	SPT	01	10+14+15=39					
2.00				2.0	SPT	02	12+13+12=33					
3.00			do	2.5	DS	02						
4.00				3.0	SPT	03	14+17+20=37					
5.00				4.0	SPT	04	7 100 9 cm penetration					
6.00	11.0		soft rock	4.5	DS	03						
7.00				5.5	SPT	05	7 100					
8.00				6.5	CS	01	8.7 100					
9.00			do	7.0	CS	02						
10.00				8.0	CS	03	14.3 100					
11.00				9.0	CS	04	64.5 52%					
12.00				10.5	CS	04	70.6 64%					
13.00	22.5			12.0	CS	05	81.7 62%					
14.00			BH terminated At Depth 12.5 mtd	12.5	CS	06	83.7 71%					
15.00												

SIGN OF THE CLIENT

For SWAYIN & ASSOCIATES

(Signature)
 Vinod Kumar
 Swayin & Associates



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PROJECT :- <u>224602 MW K/1</u>		BORE HOLE NO. :- <u>05</u>		DATE OF START :- <u>24/12/23</u>							
LOCATION :- <u>Kudermola</u>		SHEET NO. :- <u>01</u>		DATE OF COMPL :- <u>25/12/23</u>							
CLIENT :- <u>BHEL</u>		WATER LEVEL :- <u>1.20mtr</u>		R. L. :-							
DEPTH IN MTRS.	DEPTH OF CHANGE OF STRATA	BH STRATA	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Sand	0.5	DS	01					
1.00				1.0	SPT	01					
2.00				2.0	SPT	02					
2.50				2.5	DS	02					
3.00				3.0	SPT	03					
4.00			do	4.0	SPT	04					
4.50				4.5	DS	03					
5.00				5.0	SPT	05					
5.00	5.00			> 100 % Compensation							
6.00			Soft Rock	6.5	CS	01					
7.00				8.0	CS	02					
8.00				9.5	CS	03					
9.00				11.0	CS	03					
10.00				12.5	CS	04					
11.00			11	13.0	CS	05					
12.00											
13.00	13.00										
14.00			BH terminated At Depth 13.00m								
15.00											

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

(Signature)
 Arun Kumar
 Jaiswal



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PROJECT :- <u>27800mwp/TP</u>			BORE HOLE NO. :- <u>18H8</u>		DATE OF START :- <u>25/12/23</u>						
LOCATION :- <u>Kodumga</u>			SHEET NO. :- <u>01</u>		DATE OF COMPL :- <u>25/12/23</u>						
CLIENT :- <u>BHEL</u>			WATER LEVEL :- <u>1.90mR</u>		R. L. :-						
DEPTH IN MTRS	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO					
0.00			<u>Sand</u>	0.5	DS	01					
1.00				1.0	SPT	01					
2.00											<u>9+9+10=19</u>
2.00	<u>2.0</u>			2.0	SPT	02					<u>30+ > 100 11 cm penetration</u>
2.50			<u>Soft Rock</u>	2.5	DS	02					
3.00				3.0	SPT	03					<u>> 100 9 cm penetration</u>
4.00				4.0	SPT	04					<u>> 100 7 cm penetration</u>
4.50				4.5	DS	03					
5.00			<u>do</u>	5.0	SPT	05					<u>> 100 8 cm penetration</u>
6.00				6.0	SPT	06					<u>> 100 3 cm penetration</u>
6.50				6.5	DS	04					
7.00				7.0	SPT	07					<u>> 100 4 cm penetration</u>
8.00			<u>Soft Rock</u>	8.0	CS	01					<u>68% 53%</u>
9.00				9.5	CS	02					<u>75% 62%</u>
10.00											
11.00			<u>do</u>	11.0	CS	03					<u>71% 56%</u>
12.00	<u>12.0m</u>			12.0	CS	04					<u>76% 62%</u>
13.00			<u>BH terminated at depth 12.0mR</u>								
14.00											
15.00											

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

Prakash
Prakash Kumar
Jaiswal



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PROJECT :- <u>2x800 MW KTP</u>						DATE OF START :- <u>25/12/23</u>					
LOCATION :- <u>Koderna</u>						DATE OF COMPL :- <u>25/12/23</u>					
CLIENT :- <u>BHEL</u>						R. L. :-					
						BORE HOLE NO. :- <u>11</u>					
						SHEET NO. :- <u>01</u>					
						WATER LEVEL :- <u>1.40 mtr</u>					
DEPTH IN MTRS	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Filling Soil	0.5	DS	01					
1.00				1.0	SPT	01					
2.00	2.0m		Sand	2.0	SPT	02					
3.00				2.5	DS	02					
4.00				3.0	SPT	03					
5.00	5.0m		do	4.0	SPT	04					
6.00				4.5	DS	03					
7.00				5.0	SPT	05					
8.00			Soft Rock								
9.00				6.5	CS	01					
10.00	10.0m			8.0	CS	02					
11.00			do	9.5	CS	03					
12.00				10.0	CS	04					
13.00			BH terminated At Depth 10mtr								
14.00											
15.00											

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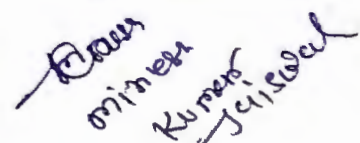
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PROJECT :- 2x800mm KPS			BORE HOLE NO. :- BH-10		DATE OF START :- 24/12/23						
LOCATION :- Koderma			SHEET NO. :- 01		DATE OF COMPL :- 24/12/23						
CLIENT :- BHEL			WATER LEVEL :- 1.90mtr		R. L. :-						
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Sand	0.5	DS	01					
1.00				1.0	SPT	01					9+12+16=28
2.00				2.0	SPT	02					10+14+16=30
2.50				2.5	DS	02					
3.00			do	3.0	SPT	03					14+16+20=30
4.00				4.0	SPT	04					15+18+19=32
4.50				4.5	DS	03					
5.00	5.0m			5.0	SPT	05					18+27+30=57
6.00			Silty Sand	6.0	SPT	06					20+25+27=52
6.50				6.5	DS	04					
7.00	7.0m			7.0	SPT	07					> 100 4cm pration
8.00			Soft Rock	8.5	CS	01					47% 16%
9.00											
10.00				10.0	CS	02					64% 50.3%
11.00											
11.50				11.5	CS	03					69% 54%
12.00			do								
13.00				13.0	CS	04					73% 62%
13.50	13.5			13.5	CS	05					80% 76%
14.00			BH terminated at depth 13.5 mtr								
15.00											

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 Kumar Jaiswal

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BORELOG DATA SHEET

PROJECT :- 22800 MW K/PS BORE HOLE NO. :- 10

DATE OF START :- 26/12/22

LOCATION :- Koderma

SHEET NO. :- 01

DATE OF COMPL :- 26/12/22

CLIENT :- BHEL

WATER LEVEL :- 1.0m

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			W. VALUE	Q. N. (C/S)	CONE HARDNESS (kg/cm ²)	RQD %	RE-MARKS
				DEPTH	TIME	NO.					
0.00			Sand								
1.00				1.0	SPT	01					
2.00				2.0	SPT	02					
3.00				3.0	SPT	03					
4.00				4.0	SPT	04					
5.00			do	5.0	SPT	05					
6.00	6.0m			6.0	SPT	06					
7.00				7.5	CS	01					
8.00				9.0	CS	02					
9.00				10.5	CS	03					
10.00			do	12.0	CS	03					
11.00				13.5	CS	04					
12.00				15.0	CS	05					
13.00											
14.00											
15.00	15.0m		BH terminated At Depth 15.0m								

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Minesh Kumar Jaiswal



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BORELOG DATA SHEET

PROJECT :- 2x800 mm K7P BORE HOLE NO. :- 17

DATE OF START :- 28/12/23

LOCATION :- Koderma

SHEET NO. :- 01

DATE OF COMPL :- 28/12/23

CLIENT :- BHEL

WATER LEVEL :- 2.0m + K

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	Rat %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Filling soil with Boulder	0.5	DS	01					
1.00	1.0m			1.0	SPT	01					10 + 16 + 20 = 36
2.00			Sandy clay	2.0	SPT	02					69 + 24 + 26 = 40
3.00				2.5	DS	02					
4.00			Sandy clay	3.0	SPT	03					22 + 26 + 28 = 54
5.00				4.0	SPT	04					24 + 20 + 30 = 50
6.00	6.0m			4.5	DS	03					
7.00				5.0	SPT	05					24 + 30 + 35 = 65
8.00			Clay Sand with Kankar	6.0	SPT	06					51 + 36 + 38 = 74
9.00				6.5	DS	04					
10.00	10.0m			7.0	SPT	07					40 + 40 + 49 = 89
11.00				8.0	SPT	08					36 + 38 + 37 = 75
12.00				8.5	DS	04					
13.00				9.0	SPT	09					32 + 49 + 51 = 100
14.00				10.0	SPT	10					7 100 fcm penetration
15.00	15.0m		Hard Rock	11.5	CS	01					79 62%
				13.0	CS	02					96% 96%
			BH terminated At Depth 15mtr	14.5	CS	03					93% 70%
				15.0	CS	04					96% 80%

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Jaiswal



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BORELOG DATA SHEET

PROJECT : 22800 MW KPS BORE HOLE NO. : BH-12 DATE OF START : 29/12/23
LOCATION : Koderma SHEET NO. : a1 DATE OF COMPL : 29/12/23
CLIENT : BHEL WATER LEVEL : 7.0m R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	ROD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			clay	0.5	DS	01					
1.00				1.0	SPT	01	4+4+7=11				
1.50				1.5	UDS	01					
2.00	2.0m			2.0	SPT	02	10+10+10=20				
2.50			Sandy clay	2.5	DS	02					
3.00				3.0	SPT	03	14+10+16=24				
4.00				4.0	SPT	04	20+20+22=42				
4.50				4.5	DS	03					
5.00				5.0	SPT	05	17+20+24=41				
6.00	6.0m			6.0	SPT	06	14+20+25=49				
6.50			clay sand with clay <u>clay</u>	6.5	DS	04					
7.00			with clay <u>clay</u> clay <u>clay</u>	7.0	SPT	07	27+20+22=49				
8.00	8.0m			8.0	SPT	08	7/100 2cm penetration				
8.50			Soft Rock	8.5	DS	05					
9.00	9.0m			9.0	SPT	09	7/100 1cm penetration				
10.00			Hard Rock	10.5	CS	01					74% 56%
11.00											
12.00			11	12.0	CS	02					86% 77%
13.00				13.5	CS	03					90% 90%
14.00	14.0m			14.0	CS	04					83% 60%
15.00			BH terminated at Depth 14.0m								

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Jaiswal

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PROJECT : <u>22900 MW KPPS</u>				BORE HOLE NO. :- <u>19</u>			DATE OF START : <u>26/12/23</u>				
LOCATION :- <u>Kodornag</u>				SHEET NO. :- <u>01</u>			DATE OF COMPL : <u>26/12/23</u>				
CLIENT :- <u>BHEL</u>				WATER LEVEL :- <u>2.0 mtr</u>			R. L. :-				
DEPTH IN MTRS.	DEPTH OF CHANGE OF STRATA	BH STRATA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Filling Soil with poulders and R.C.C.	0.5	DS	01					
1.00	1.0m		loose clay	1.0	SPT	01					
2.00				2.0	SPT	02					
3.00	3.0m		Soft Rock	2.5	DS	02					
4.00	4.0m			3.0	SPT	03					
5.00			Hard Rock	4.0	CS	01					
6.00				4.5	CS	02					
7.00				5.5	CS	02					
8.00				7.0	CS	03					
9.00	9.0m			8.5	CS	04					
10.00				9.0	CS	05					
11.00			BH terminated at Depth 9.0m								
12.00											
13.00											
14.00											
15.00											

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PROJECT : <u>2x870 mWKT</u>				BORE HOLE NO. :- <u>01</u>			DATE OF START :- <u>24/12/23</u>				
LOCATION :- <u>Koderna</u>				SHEET NO. :- <u>01</u>			DATE OF COMPL :- <u>24/12/23</u>				
CLIENT :- <u>BHEL</u>				WATER LEVEL :- <u>2.6 mtr</u>			R. L. :-				
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recov- ery	RQD %	RE- MARKS
				DEPTH	TYPE	NO.					
0.00			Sandy clay	0.5	DS	01					
1.00				1.0	SPT	01					
2.00				2.0	SPT	02					
3.00				2.5	DS	02					
4.00				3.0	SPT	03					
5.00	4.0m		clay sand with hardk	4.0	SPT	04					
6.00				4.5	DS	03					
7.00			fine sand	5.0	SPT	05					
8.00				6.0	SPT	06					
9.00				6.5	DS	04					
10.00				7.0	SPT	07					
11.00				8.0	SPT	08					
12.00				8.5	DS	05					
13.00				9.0	SPT	09					
14.00				10.0	SPT	10					
15.00	10.0m		Hard Rock	11.5	CS	01					
				13.0	CS	02					
			BH terminated At Depth 15m	14.5	CS	03					
	15.0m			15.0	CS	04					

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Koushik Kumar
midresh Kumar
Jai Sural



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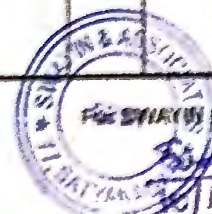
BORELOG DATA SHEET

PROJECT : 2x400 M² FTI, BORE HOLE NO. : 16
LOCATION : YADGERP
CLIENT : ZHEL
SHEET NO. : 01
WATER LEVEL :

DATE OF START : 12/12/2023
DATE OF COMPLETION : 12/12/2023
P.L. :

DEPTH IN MTRS.	DEPTH OF CHANGE OF START	BH START	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	G. H (CASE)	SAND % (S)	WATER %	RE- MARKS
				DEPTH	TYPE	NO.					
0.00	0.00		dry	0.50	DS	01					
1.00	0.50			1.50	DS	01					9+12+11=23
2.00	1.50		Sandy clay	2.50	DS	02					
3.00	2.50		" "	3.00	DS	02					11+13+12=25
4.00	3.50		" "	4.00	DS	03					
5.00	4.50		" "	4.50	DS	03					12+14+15=29
6.00	5.50		" "	5.50	DS	04					
7.00	6.50		" "	6.50	DS	04					13+15+16=28
8.00	7.50		" "	7.50	DS	05					
9.00	8.50		" "	8.50	DS	05					12+16+13=29
10.00	9.50		" "	9.50	DS	06					
11.00	10.50		" "	10.50	DS	06					12+15+10=25
12.00	11.50		" "	11.50	DS	07					
13.00	12.50		soft rock	12.50	DS	07					100% 86% clay - 13.50 m
14.00	13.50		Hard Rock	13.50	DS	08					
15.00	14.50		2H terminated at the depth of 13.50 m								

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BORELOG DATA SHEET

PROJECT : 2x900mm RTB

BORE HOLE NO. : 131-11

DATE OF START : 25/12/23

LOCATION : Koderma

SHEET NO. : 01

DATE OF COMPL : 25/12/23

CLIENT : BHEL

WATER LEVEL : 2.90 mtr

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STRATA	BH START	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO					
0.00			Filling soil	0.5	DS	01					
1.00	1.0 m		Sand	1.0	SPT	01	14+14+14			28	
2.00				2.0	SPT	02	9+9+8			16	
2.50				2.5	DS	02					
3.00				3.0	SPT	03	10+13+12			25	
4.00			do	4.0	SPT	04	19+20+20			40	
4.50				4.5	DS	03					
5.00				5.0	SPT	05	21+26+24			50	
6.00				6.0	SPT	06	25+28+29			57	
6.50				6.5	DS	04					
7.00	7.0m		Soft Rock	7.0	SPT	07	> 100			3 cm production	
8.00				8.5	CS	01				63%, 50%	
9.00											
10.00			do	10.0	CS	02				79%, 53%	
11.00				11.0	CS	03				80%, 64%	
12.00	12.0			12.0	CS	04				83%, 63%	
13.00			BH terminated At Depth 12.0 mtr								
14.00											
15.00											

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For SWAYIN & ASSOCIATES

Prasenjit Kumar
Prasenjit Kumar
Jaiswal

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BORELOG DATA SHEET

PROJECT :- 2x80mm KTR BORE HOLE NO. :- 09
LOCATION :- Kodeonga SHEET NO. :- 01
CLIENT :- BHEL WATER LEVEL :- 2.95mtr

DATE OF START :- 27/10/23
DATE OF COMPL :- 27/10/23
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQC %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Sandy clay	0.50	DS	01					
1.00				1.0	SPT	01					$7+12+14=26$
2.00				2.0	SPT	02					$10+16+19=35$
3.00				2.5	DS	02					$14+19+21=40$
4.00				3.0	SPT	03					$16+20+30=50$
5.00	4.50		Clay sand	4.0	SPT	04					$16+20+30=50$
6.00				4.5	DS	03					
7.00				5.0	SPT	05					$20+23+29=52$
8.00				6.0	SPT	06					$24+28+33=61$
9.00				6.5	DS	04					$29+29+41=70$
10.00	8.0		Soft + Rock	7.0	SPT	07					$29+29+41=70$
11.00				8.0	SPT	08					> 100 G computation
12.00											
13.00											
14.00											
15.00	14.5m		Hard Rock	9.5	CS	01					30% 10%
				11.0	CS	02					96% 75%
				12.5	CS	03					93% 69%
			BH terminated at Depth 14.5	14.0	CS	04					84% 73%
				14.5	CS	05					96% 82%

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BORELOG DATA SHEET

PROJECT :- 2x800MW
KTPS
LOCATION :- Koderma
CLIENT :- BHEL

BORE HOLE NO. :- 12
SHEET NO. :- 01
WATER LEVEL :- 6.0mtr

DATE OF START :- 18/12/23
DATE OF COMPL :- 18/12/23
R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			clay sand	0.5	DS	01					
1.00				1.0	SPT	01					10+13+13=26
2.00				2.0	SPT	02					9+10+14=24
3.00				2.5	DS	02					
4.00				3.0	SPT	03					12+14+16=30
5.00				4.0	SPT	04					16+18+21=39
6.00				4.5	DS	03					
7.00				5.0	SPT	05					20+25+29=54
8.00				6.0	SPT	06					21+26+28=54
9.00				6.5	DS	04					
10.00			Soft Rock	7.0	SPT	07					22+30+30=60
11.00				7.5	DS	05					
12.00				9.0	CS	01					40% 51%
13.00				10.5	CS	02					66% 54%
14.00				12.0	CS	03					73% 59%
15.00				12.5	CS	04					80% 62%
			BH terminated at Depth 12.5 mtr								

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[Signature]
Animesh Kumar



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BORELOG DATA SHEET

PROJECT :- 20800MW KPS BORE HOLE NO. :- 04

DATE OF START :- 12/12/23

LOCATION :- Koderma SHEET NO. :- 01

DATE OF COMPL :- 13/12/23

CLIENT :- BHEL WATER LEVEL :-

R. L. :-

DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Clay sand	0.5	DS	01					
1.00				1.0	DS	01	7+6+7=13				
2.00				2.0	SPT	02	10+11+14=25				
3.00				2.5	DS	02					
4.00				3.0	SPT	03	12+14+16=30				
5.00			Soft Rock	4.0	SPT	04	15+19+20=39				
6.00	6.0m			4.5	DS	03					
7.00				5.0	SPT	05	16+19+23=42				
8.00				6.0	SPT	06	> 100 cm penetration				
9.00				6.5	DS	04					
10.00	10.0m		Hard Rock	7.0	SPT	07	> 100 cm penetration				
11.00				8.5	CS	01			6% Nil		
12.00				10.0	CS	02			7% Nil		
13.00				11.5	CS	03			74% 56%		
14.00				12.0	CS	03			74% 50%		
15.00	15.0m		BH terminated	13.0	CS	04			85% 61%		
				14.5	CS	05			79% 54.33%		
			Depth 15.0mtr	15.0	CS	06			80% 66%		

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BHEL



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PROJECT :- <u>AXGUMUKTPS</u>			BORE HOLE NO. :- <u>JBH-05</u>		DATE OF START :- <u>21/12/23</u>						
LOCATION :- <u>Koderma</u>			SHEET NO. :- <u>01</u>		DATE OF COMPL :- <u>22/12/23</u>						
CLIENT :- <u>DHEL</u>			WATER LEVEL :- <u>2.10mtr</u>		R. L. :-						
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W. OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00			Clay Sand	0.5	DS	01					
1.00				1.0	SPT	01	$6+8+12=20$				
2.00				2.0	SPT	02	$7+10+13=23$				
3.00				2.5	DS	02					
				3.0	SPT	03	$6+14+14=28$				
4.00			Clay Sand	4.0	SPT	04	$9+20+21=41$				
				4.5	DS	03					
5.00				5.0	SPT	05	$12+19+25=44$				
6.00				6.0	SPT	06	$19+21+29=50$				
				6.5	DS	04					
7.00			1.	7.0	SPT	07	$20+20+30=50$				
				8.0	SPT	08	$21+24+28=52$				
8.00				8.5	DS	05					
9.00	<u>9.0m</u>			9.0	SPT	09	> 100				
10.00				Soft Rock	10.5	CS	01			82% 64%	
11.00			12.0		CS	02			76% 59%		
12.00			13.5		CS	03			84.66 61%		
13.00			14.0		CS	04			79.33% 65.66%		
14.00	<u>14.0m</u>		BH terminated At Depth 14.0mtr								
15.00											

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

[Signature]
 Vinay Kumar
 Jaiswal



SWAYIN & ASSOCIATES

77, BALIYANAGAR, HIRUBANESWAR
PHONE : (0874) 2670480, 2670060, 2670080, 9114057789
Web Site : www.swayinassociates.com

BORELOG DATA SHEET

PROJECT : 2x2 km² Muck TPL BORE HOLE NO. : 3 RH-01 DATE OF START : 29/12/22
LOCATION : N. Chidambaram SHEET NO. : 01 DATE OF COMPL : 31/12/22
CLIENT : RAIL WATER LEVEL : 5.14 p R.L. :

DEPTH IN MTRS.	DEPTH OF CHANGE OF STRATA	BH STATION	DESCRIPTION OF SAMPLE	SAMPLE			W VALUE	L FACTOR	C FACTOR	WATER %	RE- MARKS
				DEPTH	TYPE	NO					
0.00			THURSDAY	0.5	CL	01					
1.00	1.0 m			1.0	CL	01	11+15+19			7.2	
2.00				2.0	CL	02	14+20+21			14.5	
3.00				2.5	CL	02					
4.00	4.0 m			3.0	CL	03	15+19+22			24	
5.00				3.5	CL	04	27/100	7	19	100/100	
6.00			Soft Rock	4.0	CL	04					
7.00				4.5	CL	04					
8.00				5.0	CL	01				6%	11%
9.00				7.0	CL	02				7.1%	51.3%
10.00				8.5	CL	02				66.3%	53.1%
11.00				10.0	CL	04				31%	66%
12.00				10.5	CL	05				20%	51.3%
13.00			BH terminated at depth 10.5m								
14.00											
15.00											

SIGN. OF THE CLIENT

For SWAYIN & ASSOCIATES

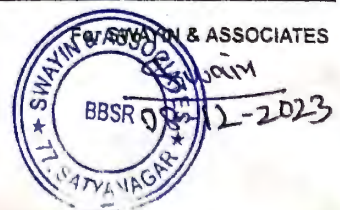
(Signature)
Mines
Super
Jaiswal



COA-NO=334580
2697827

SWAYIN & ASSOCIATES 77, SATYANAGAR, BHUBANESWAR PHONE : (0674) 2570458, 2570059, 2570985, 9114057789 Web Site : www.swayinassociates.com				BORELOG DATA SHEET							
PROJECT : 2x800 mm KPS BORE HOLE NO. :- 08				DATE OF START :- 06/12/2023							
LOCATION :- Koderma				SHEET NO. :- 01				DATE OF COMPL :- 08/12/2023			
CLIENT :- BHEL				WATER LEVEL :-				R. L. :-			
DEPTH IN MTRS.	DEPTH OF CHANGE OF STARTA	BH STARTA	DESCRIPTION OF SAMPLE	SAMPLE			'N' VALUE	G. W OBSER	Core Recovery	RQD %	RE-MARKS
				DEPTH	TYPE	NO.					
0.00	0.00		Sandy clay	0.50	DS	01					
	0.50										
1.00			Sandy clay	1.50	SPT	01	10+12+13=25				
	1.50										
2.00			Sandy clay	2.50	DS	02					
	2.50										
3.00			Sandy clay	3.00	SPT	02	12+13+15=28				
	3.00										
4.00			Sandy clay	4.00	DS	03					
	4.00										
4.00			Sandy clay	4.50	SPT	03	11+15+17=32				
	4.50										
5.00			Sandy clay	5.50	DS	04					
	5.50										
6.00			Sandy clay	6.00	SPT	04	12+14+16=30				
	6.00										
7.00			Sandy clay	7.00	DS	05					
	7.00										
7.00			Sandy clay	7.50	SPT	05	13+15+17=32				
	7.50										
8.00			Hard Rock	8.00	SPT	06	> 100				
	8.00										
9.00				9.50	CS	01	100% 82% Bore = 9.50 mtr				
	9.50										
10.00			BH Terminated at depth of 9.50 mtr								
11.00											
12.00											
13.00											
14.00											
15.00											

SIGN. OF THE CLIENT



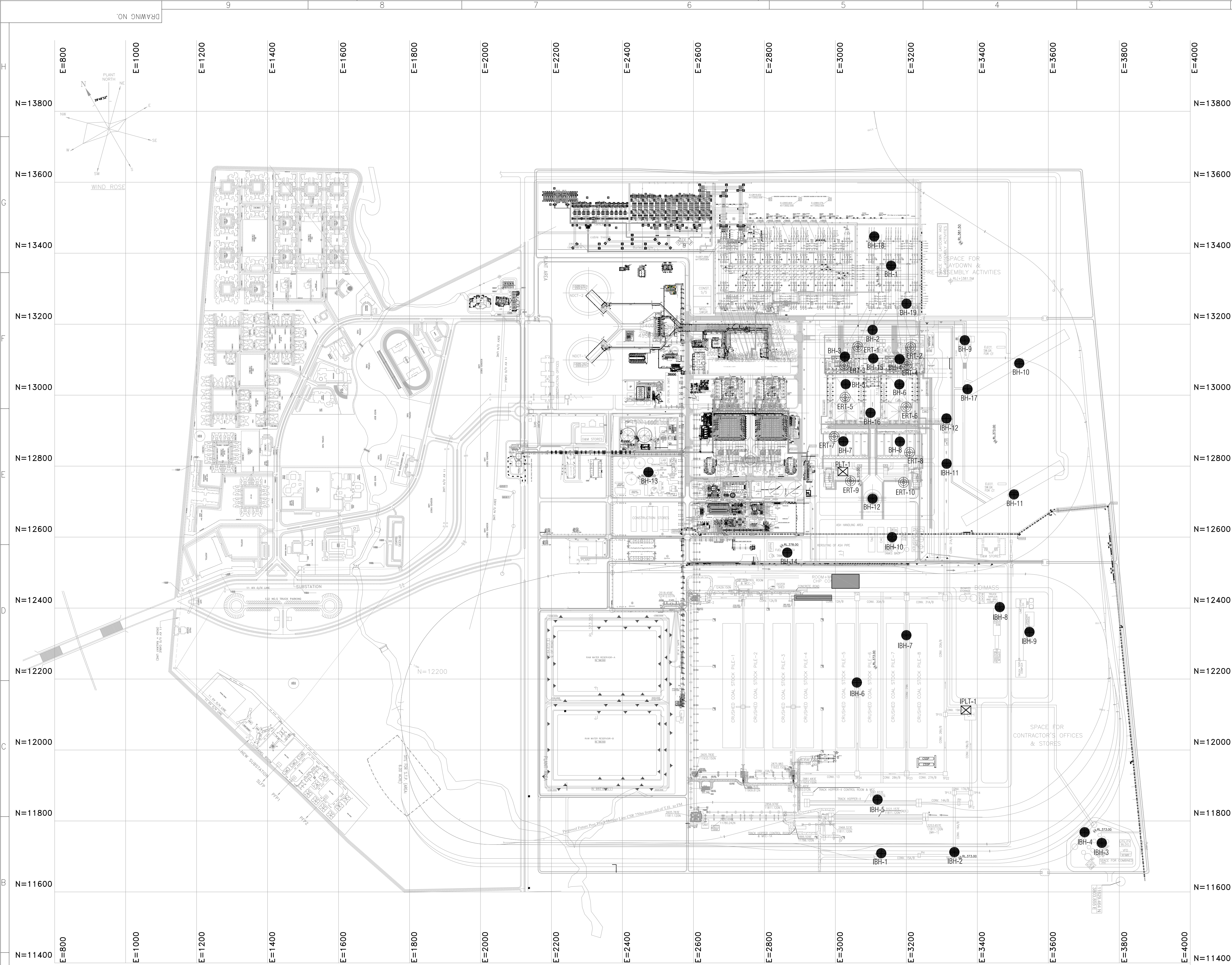


PLATE LOAD TEST (PLT)			
MARKING	CO-ORDINATES		DEPTH (M)
PLT-1	3021 E	12784 N	3
IPLT-1	3367 E	12112 N	3

REFERENCE DRG:-

1. DRAWING NO. 8024-999-POC-F-001 TITLED "GENERAL LAYOUT PLAN"

GEOTECHNICAL INVESTIGATION LEGEND:-

1. BOREHOLE (BH / IBH) ●
2. ELECTRICAL RESISTIVITY TEST (ERT) ⊗
3. PLATE LOAD TEST (PLT) ⊠

ELECTRICAL RESISTIVITY TEST (ERT)		
MARKING	CO-ORDINATES	
ERT-1	3063 E	13136 N
ERT-2	3212 E	13135 N
ERT-3	3025 E	13084 N
ERT-4	3201 E	13085 N
ERT-5	3027 E	12993 N
ERT-6	3199 E	12966 N
ERT-7	2996 E	12883 N
ERT-8	3209 E	12838 N
ERT-9	3042 E	12758 N
ERT-10	3192 E	12754 N

BORE HOLE COORDINATES			DEPTH (M)
MARKING	CO-ORDINATES		(REFER NOTE 2)
BH-1	3157 E	13364 N	15
BH-2	3104 E	13183 N	15
BH-3	3027 E	13108 N	25
BH-4	3180 E	13101 N	25
BH-5	3029 E	13031 N	25
BH-6	3180 E	13030 N	25
BH-7	3022 E	12869 N	20
BH-8	3182 E	12869 N	20
BH-9	3364 E	13154 N	20
BH-10	3518 E	13089 N	15
BH-11	3503 E	12720 N	15
BH-12	3104 E	12708 N	25
BH-13	2473 E	12783 N	15
BH-14	2864 E	12556 N	15
BH-15	3106 E	13103 N	25
BH-16	3099 E	12950 N	25
BH-17	3372 E	13016 N	20
BH-18	3109 E	13447 N	20
BH-19	3200 E	13257 N	20

BORE HOLE COORDINATES			DEPTH (M)
MARKING	CO-ORDINATES		(REFER NOTE 2)
IBH-1	3129 E	11701 N	15
IBH-2	3335 E	11704 N	25
IBH-3	3750 E	11730 N	15
IBH-4	3702 E	11760 N	10
IBH-5	3118 E	11852 N	25
IBH-6	3060 E	12182 N	15
IBH-7	3200 E	12315 N	15
IBH-8	3463 E	12395 N	15
IBH-9	3546 E	12324 N	15
IBH-10	3159 E	12591 N	15
IBH-11	3313 E	12799 N	20
IBH-12	3313 E	12926 N	20

- NOTES:-**
- ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
 - BORE HOLE SHALL BE DRILLED UPTO THE DEPTH INDICATED AGAINST EACH BORE HOLE OR UP TO 5M IN ROCK WITH CONTINUOUS ROD GREATER THAN 50% WHICHEVER IS EARLIER.
 - BACKFILLING OF BORE HOLES AND PITS SHALL BE AS PER SPECIFICATION AND AS DIRECTED BY THE ENGINEER-IN-CHARGE.
 - STARTING DEPTH OF STANDARD PENETRATION TEST (SPT) SHALL BE 1M BELOW GROUND LEVEL AND THE TEST SHALL BE CONDUCTED AT EVERY 1M INTERVAL ALTERNATE TO COLLECTION OF UNDISTURBED SAMPLE (UDS) UPTO 10M DEPTH BELOW GROUND LEVEL AND AT EVERY 1.5M INTERVAL ALTERNATE TO COLLECTION OF UDS BEYOND 10M DEPTH, AT CHANGE OF STRATA & AT DEPTHS WHEREVER UDS COULD NOT BE COLLECTED.
 - STARTING DEPTH OF COLLECTION OF UDS SHALL BE 2M BELOW GROUND LEVEL AND UDS SHALL BE COLLECTED AT 1M INTERVAL ALTERNATE TO CONDUCTING SPT UPTO 10M DEPTH BELOW GROUND LEVEL & AT EVERY 1.5M INTERVAL ALTERNATE TO CONDUCTING SPT BEYOND 10M DEPTH.
 - ELECTRICAL RESISTIVITY TEST SHALL BE CARRIED OUT BY WENNER'S METHOD.
 - GROUND WATER SAMPLE SHALL BE COLLECTED FROM BH-1, BH-11 & IBH-6.
 - GEOTECHNICAL INVESTIGATION SHALL BE CARRIED OUT AS PER SPECIFICATION.
 - DO NOT SCALE THIS DRAWING.

PROJECT NTPC Limited (A GOVERNMENT OF INDIA ENTERPRISE)	OWNER DAMODAR VALLEY CORPORATION
PROJECT KODERMA THERMAL PROJECT PH - II (2X800MW)	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NODA
COPY RIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED it must not be used directly or indirectly in any way detrimental to the interest of the company.	
TITLE GEOTECHNICAL INVESTIGATION LAYOUT	
DRAWING NO. PE-DG-P62-602-C002	
SHEET 1 OF 1 REV. 0	
Nov 04, 2023 - 5:57pm FORMAT SIZE A1	

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)	
THIS DRAWING MARKED (✓) IS RELEASED FOR	
☐ COMMENTS/APPROVAL	
☐ PLANNING/INFORMATION	
☒ CONSTRUCTION	
STAMP ALL PREVIOUS REVISION AS SUPERSEDED	
ISSUED BY	
NAME VIVEK VARSHNEY	
SIGNATURE -sd-	
DATE 04-11-2023	

JOB NO. P62	
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