



RENUKA CONSULTANTS,
SHOP NO. 1, MEERA MOHAN,
OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

As per IS 1892 : 2002

Job No : 17-163

Page No : 1 of 4

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624865 m, N - 2550746 m

R. L.: -2.310 m

Location : As per Location Sketch

Bore Hole No. MBH-1

Depth of Bore Hole : 33.45 m

Depth of Casing : 33.45 m

Date of Commencement & completion : 21/12/017 to 23/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-2.310						From To	15 30 45 60 N				
0.00				Dark grayish inorganic clays of high plasticity, fat clays. Marine clay.		1	DS	0.00 1.50					
1.00						1	UDS	1.50 1.95					
2.00						2	DS	1.95 3.00					
3.00						1	SPT	3.00 3.45	1 2 3 - 5				
4.00						3	DS	3.45 4.50					
5.00						2	UDS	4.50 4.95					
6.00						4	DS	4.95 6.00					
7.00						2	SPT	6.00 6.45	5 10 11 - 21				
8.00						5	DS	6.45 7.50					
9.00						3	SPT	7.50 7.95	2 4 5 - 9				
10.00						6	DS	7.95 9.00					
						4	SPT	9.00 9.45	7 13 15 - 28				
						7	DS	9.45 10.50					
						5	SPT	10.50 10.95	9 16 25 - 41				



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Co - ordinates : - E - 0624865 m, N - 2550746 m

R. L.: -2.310 m

Location : As per Location Sketch

Bore Hole No. MBH-1

Depth of Bore Hole : 33.45 m

Depth of Casing : 33.45 m

Date of Commencement & completion : 21/12/017 to 23/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value						TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-12.310																	
				Brownish and grayish inorganic silts, silty or clayey fine sands or clayey silts of medium plasticity.		5	SPT	10.50	10.95	9	16	25	-	41					
11.00						8	DS	10.95	12.00										
12.00																			
				Dark brownish inorganic silts, silty or clayey fine sands or clayey silts of medium plasticity.		6	SPT	12.00	12.45	16	21	27	-	48					
13.00						9	DS	12.45	13.50										
	9.00				MI	7	SPT	13.50	13.95	15	26	31	-	57					
14.00				Light brownish inorganic silts, silty or clayey fine sands or clayey silts of medium plasticity.		10	DS	13.95	15.00										
15.00						8	SPT	15.00	15.45	10	14	17	-	31					
16.00						11	DS	15.45	16.50										
				Dark brown and pale brown inorganic silts, silty or clayey fine sands or clayey silts of medium plasticity.		9	SPT	16.50	16.95	18	18	19	-	37					
17.00		-19.260		Light yellowish and brown silty sands, poorly graded sand-silt mixtures.		12	DS	16.95	18.00										
18.00				Light yellowish and brownish silty sands, poorly graded sand-silt mixtures.		10	SPT	18.00	18.45	16	17	18	-	35					
19.00	16.50			Pale brown, dull white silty sands, poorly graded sand-silt mixtures.	SM	13	DS	18.45	19.50										
						11	SPT	19.50	19.95	6	10	9	-	19					
20.00				Brownish silty sands, poorly graded sand-silt mixtures.		14	DS	19.95	21.00										
		-22.310																	



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Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624865 m, N - 2550746 m

R. L.: -2.310 m

Location : As per Location Sketch

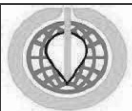
Bore Hole No. MBH-1

Depth of Bore Hole : 33.45 m

Depth of Casing : 33.45 m

Date of Commencement & completion : 21/12/017 to 23/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
20.00		-22.310		Brownish silty sands, poorly graded sand-silt mixtures.		14	DS	19.95 21.00					
21.00				Brownish, dull white silty sands, poorly graded sand-silt mixtures.		12	SPT	21.00 21.45	9 20 21 - 41				
22.00				Light brownish silty sands, poorly graded sand-silt mixtures.		15	DS	21.45 22.50					
23.00						13	SPT	22.50 22.95	11 26 32 - 58				
24.00						16	DS	22.95 24.00					
25.00	16.50					14	SPT	24.00 24.45	10 17 25 - 42				
26.00						17	DS	24.45 25.50					
27.00						15	SPT	25.50 25.95	8 16 27 - 43				
28.00						18	DS	25.95 27.00					
29.00						16	SPT	27.00 27.45	17 19 23 - 42				
30.00						19	DS	27.45 28.50					
						17	SPT	28.50 28.95	12 16 29 - 45				
						20	DS	28.95 30.00					
						18	SPT	30.00 30.45	16 22 26 - 48				
						21	DS	30.45 31.50					
		-32.310											



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Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624865 m, N - 2550746 m

R. L.: -2.310 m

Location : As per Location Sketch

Bore Hole No. MBH-1

Depth of Bore Hole : 33.45 m

Depth of Casing : 33.45 m

Date of Commencement & completion : 21/12/017 to 23/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
30.00		-32.310		Brownish silty sands, poorly graded sand-silt mixtures.		18	SPT	30.00 30.45	16 22 26 - 48				
						21	DS	30.45 31.50					
31.00													
	16.50			Brownish and dull white silty sands, poorly graded sand-silt mixtures.		19	SPT	31.50 31.95	14 19 24 - 43				
32.00				Brownish silty sands, poorly graded sand-silt mixtures.	SM	22	DS	31.95 33.00					
33.00						20	SPT	33.00 33.45	17 21 26 - 47				
		-35.760											

DS : Disturbed Sample

UDS : Undisturbed Sample

SPT : Standard Penetration Test

WS : Wash Sample

CR : Core Recovery

RQD : Rock Quality Designation

PR : Rate of Penetration

VST : Vane Shear Test

K : Permeability Test

PT : Packer Permeability Test

Site Engg.
Mahesh
Mandape

Drawn By
Reena

Checked By
Sandip S. Deshpande

Client Rept.

Bore Termination Depth: 33.45 m



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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624950 m, N - 2550730 m

R. L.: -11.730 m

Location : As per Location Sketch

Bore Hole No. MBH-2

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 23/12/017 to 25/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-11.730						From To	15 30 45 60 N				
0.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		1	DS	0.00 1.50					
1.00						1	UDS	1.50 1.95					
2.00	4.50				CI	2	DS	1.95 3.00					
3.00						1	SPT	3.00 3.45	9 11 14 - 25				
4.00				Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		3	DS	3.45 4.50					
		-16.230											
5.00	1.95			Light brownish inorganic clays of high plasticity, fat clays.	CH	2	SPT	4.50 4.95	8 11 13 - 24				
				Brownish inorganic clays of high plasticity, fat clays.		4	DS	4.95 6.00					
6.00		-18.180				3	SPT	6.00 6.45	6 12 18 - 30				
7.00				Brownish silty sands, poorly graded sand-silt mixtures.		4	DS	6.45 7.50					
8.00	6.00				SM	4	SPT	7.50 7.95	10 17 34 - 51				
						5	DS	7.95 9.00					
9.00						5	SPT	9.00 9.45	28 30 34 - 64				
10.00						6	DS	9.45 10.50					
		-21.730		Dull brownish silty sands, poorly graded sand-silt mixtures.		6	SPT	10.50 10.95	11 19 16 - 35				



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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624950 m, N - 2550730 m

R. L.: -11.730 m

Location : As per Location Sketch


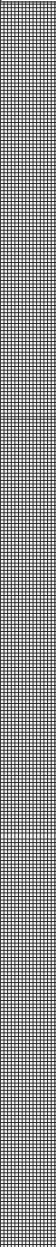
Bore Hole No. MBH-2

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 23/12/017 to 25/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-21.730																
				Dull brownish silty sands, poorly graded sand-silt mixtures.		6	SPT	10.50	10.95	11	19	16	-	35				
11.00	6.00			Brownish silty sands, poorly graded sand-silt mixtures.	SM	7	DS	10.95	12.00									
12.00		-24.180				7	SPT	12.00	12.45	10	14	16	-	30				
				Inorganic clays of high plasticity, fat clays.		8	DS	12.45	13.50									
13.00	1.50				CH													
				Light brownish inorganic clays of high plasticity, fat clays.		8	SPT	13.50	13.95	20	25	29	-	54				
14.00		-25.680																
				Light brownish and dull inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		9	DS	13.95	15.00									
15.00						9	SPT	15.00	15.45	10	11	16	-	27				
16.00	4.50			Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.	ML	10	DS	15.45	16.50									
				Brownish and yellowish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		10	SPT	16.50	16.95	8	19	23	-	42				
17.00				Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		11	DS	16.95	18.00									
18.00		-30.180				11	SPT	18.00	18.45	10	16	20	-	36				
19.00				Inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		12	DS	18.45	19.50									
20.00	12.00			Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	12	SPT	19.50	19.95	12	16	25	-	41				
						13	DS	19.95	21.00									
		-31.730																

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										As per IS 1892 : 2002				Page No : 3 of 3									
Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla. Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS). Co - ordinates : - E - 0624950 m, N - 2550730 m R. L.: -11.730 m Location : As per Location Sketch																		Bore Hole No. MBH-2 Depth of Bore Hole : 30.45 m Depth of Casing : 30.45 m Date of Commencement & completion : 23/12/017 to 25/12/017					
Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value				TCR (%)	SCR (%)	RQD (%)	Rock ratings						
20.00		-31.730		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		13	DS	19.95	21.00														
21.00				Brownish and brownish yellow inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		13	SPT	21.00	21.45	11	17	20	-	37									
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		14	DS	21.45	22.50														
22.00						14	SPT	22.50	22.95	24	28	37	-	65									
						15	DS	22.95	24.00														
23.00																							
24.00																							
25.00	12.00				Brownish and dark brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	16	SPT	25.50	25.95	10	18	23	-	41								
					Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		17	DS	25.95	27.00													
26.00																							
27.00							17	SPT	27.00	27.45	6	11	16	-	27								
							18	DS	27.45	28.50													
28.00					Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		18	SPT	28.50	28.95	12	14	23	-	37								
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		19	DS	28.95	30.00														
29.00																							
30.00						19	SPT	30.00	30.45	15	17	27	-	44									
		-42.180																					
DS : Disturbed Sample UDS : Undisturbed Sample SPT : Standard Penetration Test WS : Wash Sample						CR : Core Recovery RQD : Rock Quality Designation PR : Rate of Penetration VST : Vane Shear Test						K : Permeability Test PT : Packer Permeability Test											
Site Engg. Mahesh Mandape		Drawn By Reena		Checked By Sandip S. Deshpande			Client Rept.		Bore Termination Depth: 30.45 m														



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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624932 m, N - 2550636 m

R. L.: -12.930 m

Location : As per Location Sketch

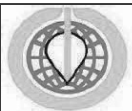
Bore Hole No. MBH-3

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 28/12/017 to 30/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-12.930						From To	15 30 45 60 N				
0.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		1	DS	0.00 1.50					
1.00						1	SPT	1.50 1.95	7 9 13 - 22				
2.00	4.95				CI	2	DS	1.95 3.00					
3.00						2	SPT	3.00 3.45	8 13 15 - 28				
4.00						3	DS	3.45 4.50					
		-17.880				3	SPT	4.50 4.95	7 11 19 - 30				
5.00				Brownish inorganic clays of high plasticity, fat clays.		4	DS	4.95 6.00					
6.00	3.00			Light brownish inorganic clays of high plasticity, fat clays.	CH	4	SPT	6.00 6.45	6 13 20 - 33				
7.00						5	DS	6.45 7.50					
		-20.880		Brownish inorganic clays of high plasticity, fat clays.		5	SPT	7.50 7.95	9 16 32 - 48				
8.00				Brownish silty sands, poorly graded sand-silt mixtures.		6	DS	7.95 9.00					
9.00	4.50				SM	6	SPT	9.00 9.45	16 22 36 - 58				
10.00						7	DS	9.45 10.50					
		-22.930		Dull brownish silty sands, poorly graded sand-silt mixtures.		7	SPT	10.50 10.95	12 18 33 - 51				



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Co - ordinates : - E - 0624932 m, N - 2550636 m

R. L.: -12.930 m

Location : As per Location Sketch

Bore Hole No. MBH-3

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 28/12/017 to 30/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-22.930											
11.00	4.50			Dull brownish silty sands, poorly graded sand-silt mixtures. Light brown silty sands, poorly graded sand-silt mixtures.	SM	7	SPT	10.50 10.95	12 18 33 - 51				
12.00		-25.380				8	DS	10.95 12.00					
13.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		9	DS	12.00 12.45 12.45 13.50	12 17 21 - 38				
14.00						9	SPT	13.50 13.95	18 23 34 - 57				
15.00						10	DS	13.95 15.00					
16.00				Light brownish and dull white inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		10	SPT	15.00 15.45	11 13 18 - 31				
17.00	15.00					11	DS	15.45 16.50					
18.00				Brownish and yellowish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	11	SPT	16.50 16.95	12 21 25 - 46				
19.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		12	DS	16.95 18.00					
20.00				Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		12	SPT	18.00 18.45	12 19 27 - 46				
						13	DS	18.45 19.50					
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		13	SPT	19.50 19.95	9 15 20 - 35				
				Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		14	DS	19.95 21.00					
		-32.930											



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R. L.: -12.930 m

Location : As per Location Sketch

Bore Hole No. MBH-3

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 28/12/017 to 30/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
20.00		-32.930		Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		14	DS	19.95 21.00					
21.00						14	SPT	21.00 21.45	11 19 23 - 42				
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		15	DS	21.45 22.50					
22.00													
						15	SPT	22.50 22.95	21 19 34 - 53				
						16	DS	22.95 24.00					
23.00	15.00				CI								
						16	SPT	24.00 24.45	17 19 25 - 44				
						17	DS	24.45 25.50					
25.00													
				Brownish and dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		17	SPT	25.50 25.95	9 13 19 - 32				
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		18	DS	25.95 27.00					
26.00													
						18	SPT	27.00 27.45	12 14 22 - 36				
27.00		-40.380											
				Brownish silty sands, poorly graded sand-silt mixtures.		19	DS	27.45 28.50					
28.00													
				Light brownish silty sands, poorly graded sand- silt mixtures.		19	SPT	28.50 28.95	14 19 32 - 51				
						20	DS	28.95 30.00					
29.00	3.00				SM								
						20	SPT	30.00 30.45	18 22 27 - 49				
30.00				Dark brownish silty sands, poorly graded sand- silt mixtures.									
		-43.380											

DS : Disturbed Sample

UDS : Undisturbed Sample

SPT : Standard Penetration Test

WS : Wash Sample

CR : Core Recovery

RQD : Rock Quality Designation

PR : Rate of Penetration

VST : Vane Shear Test

K : Permeability Test

PT : Packer Permeability Test

Site Engg.
Mahesh
Mandape

Drawn By
Reena

Checked By
Sandip S. Deshpande

Client Rept.

Bore Termination Depth: 30.45 m



RENUKA CONSULTANTS,
 SHOP NO. 1, MEERA MOHAN,
 OPP. KRANTI TOWER, SECTOR NO. 3,
 SHREE NAGAR, THANE - 400 604.

Borelog

Job No : 17-163

As per IS 1892 : 2002

Page No : 1 of 4

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
 Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624854 m, N - 2550561 m

R. L.: -2.130 m

Location : As per Location Sketch

Bore Hole No. MBH-4

Depth of Bore Hole : 33.45 m

Depth of Casing : 33.45 m

Date of Commencement & completion : 30/12/017 to 01/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-2.130						From To	15 30 45 60 N				
0.00				Dark grayish inorganic clays of high plasticity, fat clays.		1	DS	0.00 1.50					
1.00						1	UDS	1.50 1.95					
2.00						2	DS	1.95 3.00					
3.00				Grayish inorganic clays of high plasticity, fat clay		1	SPT	3.00 3.45	1 2 3 - 5				
4.00				Dark grayish inorganic clays of high plasticity, fat clays.		3	DS	3.45 4.50					
5.00						2	UDS	4.50 4.95					
6.00				White and grayish silty sands, poorly graded sand-silt mixtures.		4	DS	4.95 6.00					
7.00				White silty sands, poorly graded sand-silt mixtures.		2	SPT	6.00 6.45	10 12 18 - 30				
8.00				White and grayish silty sands, poorly graded sand-silt mixtures.		5	DS	6.45 7.50					
9.00				Grayish and dull white silty sands, poorly graded sand-silt mixtures.		3	SPT	7.50 7.95	10 12 16 - 28				
10.00				Light brownish and grayish silty sands, poorly graded sand-silt mixtures.		4	SPT	9.00 9.45	12 16 20 - 36				
				Brownish and grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		7	DS	9.45 10.50					
						5	SPT	10.50 10.75	34 50 - - R				



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Borelog

As per IS 1892 : 2002

Job No : 17-163

Page No : 2 of 4

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624854 m, N - 2550561 m

R. L.: -2.130 m

Location : As per Location Sketch

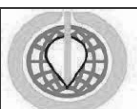
Bore Hole No. MBH-4

Depth of Bore Hole : 33.45 m

Depth of Casing : 33.45 m

Date of Commencement & completion : 30/12/017 to 01/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-12.130																
11.00	3.00			Brownish and grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	5	SPT	10.50	10.75	34	50	-	-	R				
				Grayish and brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		8	DS	10.75	12.00									
12.00		-14.580				6	SPT	12.00	12.45	9	13	13	-	26				
						9	DS	12.45	13.50									
13.00				Brownish silty sands, poorly graded sand-silt mixtures.		7	SPT	13.50	13.95	14	22	24	-	46				
						10	DS	13.95	15.00									
14.00				Yellowish and white silty sands, poorly graded sand-silt mixtures.														
						8	SPT	15.00	15.45	19	21	27	-	48				
15.00				Yellowish white silty sands, poorly graded sand-silt mixtures.		11	DS	15.45	16.50									
						9	SPT	16.50	16.95	14	17	20	-	37				
16.00	7.50			Brownish silty sands, poorly graded sand-silt mixtures.	SM	12	DS	16.95	18.00									
17.00																		
						10	SPT	18.00	18.45	18	28	37	-	65				
18.00				Grayish silty sands, poorly graded sand-silt mixtures.		13	DS	18.45	19.50									
				Brownish silty sands, poorly graded sand-silt mixtures.														
19.00																		
						11	SPT	19.50	19.95	13	19	27	-	46				
		-22.080		Light brownish and grayish silty sands, poorly graded sand-silt mixtures.														
20.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	14	DS	19.95	21.00									
	4.50	-22.130																



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OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

As per IS 1892 : 2002

Job No : 17-163

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624854 m, N - 2550561 m

R. L.: -2.130 m

Location : As per Location Sketch


Bore Hole No. MBH-4

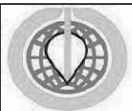
Depth of Bore Hole : 33.45 m

Depth of Casing : 33.45 m

Date of Commencement & completion : 30/12/017 to 01/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
20.00		-22.130		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		14	DS	19.95 21.00					
21.00				Grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		12	SPT	21.00 21.45	14 19 25 - 44				
22.00	4.50					15	DS	21.45 22.50					
23.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	13	SPT	22.50 22.95	10 17 21 - 38				
24.00						16	DS	22.95 24.00					
		-26.580				14	SPT	24.00 24.45	20 22 25 - 47				
25.00				Yellowish and brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		17	DS	24.45 25.50					
26.00				Brownish and dull white inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		15	SPT	25.50 25.95	21 24 28 - 52				
27.00						18	DS	25.95 27.00					
28.00	9.00			Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.	ML	16	SPT	27.00 27.45	17 24 30 - 54				
29.00						19	DS	27.45 28.50					
						17	SPT	28.50 28.95	19 23 35 - 58				
30.00						20	DS	28.95 30.00					
		-32.130				18	SPT	30.00 30.45	18 23 28 - 51				
						21	DS	30.45 31.50					

 RENUKA CONSULTANTS, SHOP NO. 1, MEERA MOHAN, OPP. KRANTI TOWER, SECTOR NO. 3, SHREE NAGAR, THANE - 400 604.										Borelog As per IS 1892 : 2002				Job No : 17-163 Page No : 4 of 4				
Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla. Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).																		
Co - ordinates : - E - 0624854 m, N - 2550561 m R. L.: -2.130 m Location : As per Location Sketch										Bore Hole No. MBH-4 Depth of Bore Hole : 33.45 m Depth of Casing : 33.45 m Date of Commencement & completion : 30/12/017 to 01/01/018								
Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings
30.00	9.00	-32.130		Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.	ML	18	SPT	30.00	30.45	18	23	28	-	51				
						21	DS	30.45	31.50									
31.00																		
32.00																		
33.00																		
		-35.580		Brownish and white inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity. Grayish and white inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		19	SPT	31.50	31.95	28	26	30	-	56				
				Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		22	DS	31.95	33.00									
				Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.		20	SPT	33.00	33.45	18	20	24	-	44				
DS : Disturbed Sample UDS : Undisturbed Sample SPT : Standard Penetration Test WS : Wash Sample																		
CR : Core Recovery RQD : Rock Quality Designation PR : Rate of Penetration VST : Vane Shear Test																		
K : Permeability Test PT : Packer Permeability Test																		
Site Engg. Mahesh Mandape		Drawn By Reena		Checked By Sandip S. Deshpande			Client Rept.		Bore Termination Depth: 33.45 m									



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OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

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Job No : 17-163

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624936 m, N - 2550523 m

R. L.: -9.560 m

Location : As per Location Sketch

Bore Hole No. MBH-5

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 19/12/017 to 20/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-9.560						From To	15 30 45 60 N				
0.00				Light brownish and grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		1	DS	0.00 1.50					
1.00						1	UDS	1.50 1.90					
2.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		2	DS	1.90 3.00					
3.00						1	SPT	3.00 3.45	13 23 25 - 48				
4.00	7.50			Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	3	DS	3.45 4.50					
5.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		2	SPT	4.50 4.90	9 32 50 - R				
6.00						4	DS	4.90 6.00					
7.00				Grayish and brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		3	SPT	6.00 6.38	15 31 50 - R				
						5	DS	6.38 7.50					
		-17.060											
8.00				Brownish silty sands, poorly graded sand-silt mixtures.		4	SPT	7.50 7.95	16 21 25 - 46				
						6	DS	7.95 9.00					
9.00	3.45			Grayish and brownish silty sands, poorly graded sand-silt mixtures.	SM	5	SPT	9.00 9.45	13 13 25 - 38				
						7	DS	9.45 10.50					
10.00				Brownish to dark brownish silty sands, poorly graded sand-silt mixtures.		6	SPT	10.50 10.95	10 16 19 - 35				
		-19.560											



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Borelog

Job No : 17-163

As per IS 1892 : 2002

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624936 m, N - 2550523 m

R. L.: -9.560 m

Location : As per Location Sketch

Bore Hole No. MBH-5

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 19/12/017 to 20/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-19.560											
	3.45			Brownish to dark brownish silty sands, poorly graded sand-silt mixtures.	SM	6	SPT	10.50 10.95	10 16 19 - 35				
11.00		-20.510											
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		8	DS	10.95 12.00					
12.00						7	SPT	12.00 12.45	12 22 26 - 48				
						9	DS	12.45 13.50					
13.00	4.50				CL								
				Brownish and grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		8	SPT	13.50 13.95	14 16 21 - 37				
14.00				Light brownish and grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		10	DS	13.95 15.00					
15.00						9	SPT	15.00 15.45	10 15 18 - 33				
		-25.010											
16.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		11	DS	15.45 16.50					
	2.55				CI	10	SPT	16.50 16.95	14 18 19 - 37				
17.00						12	DS	16.95 18.00					
		-27.560											
18.00	0.45	-28.010		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	11	SPT	18.00 18.45	12 15 18 - 33				
	1.05			Brownish silty sands, poorly graded sand-silt mixtures.	SM	13	DS	18.45 19.50					
19.00		-29.060											
	0.45			Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.	ML	12	SPT	19.50 19.95	10 12 15 - 27				
		-29.510											
20.00	1.50			Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	14	DS	19.95 21.00					
		-29.560											



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Borelog

As per IS 1892 : 2002

Job No : 17-163

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.

Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624936 m, N - 2550523 m

R. L.: -9.560 m

Location : As per Location Sketch

Bore Hole No. MBH-5

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 19/12/017 to 20/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
20.00	1.50	-29.560		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	14	DS	19.95 21.00					
21.00		-31.010				13	SPT	21.00 21.45	9 11 14 - 25				
22.00	2.55			Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity. Brownish and yellowish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	15	DS	21.45 22.50					
23.00						14	SPT	22.50 22.95	15 19 24 - 43				
24.00						16	DS	22.95 24.00					
25.00	6.45			Brown yellow and dark brown silty sands, poorly graded sand-silt mixtures. Brownish silty sands, poorly graded sand-silt mixtures. Brownish and yellowish silty sands, poorly graded sand-silt mixtures.	SM	15	SPT	24.00 24.45	13 15 20 - 35				
26.00						17	DS	24.45 25.50					
27.00						16	SPT	25.50 25.95	13 18 22 - 40				
28.00						18	DS	25.95 27.00					
29.00						17	SPT	27.00 27.45	14 19 22 - 41				
30.00						19	DS	27.45 28.50					
						18	SPT	28.50 28.95	14 18 21 - 39				
						20	DS	28.95 30.00					
						19	SPT	30.00 30.45	13 18 19 - 37				
		-40.010											

DS : Disturbed Sample

UDS : Undisturbed Sample

SPT : Standard Penetration Test

WS : Wash Sample

CR : Core Recovery

RQD : Rock Quality Designation

PR : Rate of Penetration

VST : Vane Shear Test

K : Permeability Test

PT : Packer Permeability Test

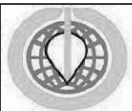
Site Engg.
Mahesh
Mandape

Drawn By
Reena

Checked By
Sandip S. Deshpande

Client Rept.

Bore Termination Depth: 30.45 m



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SHREE NAGAR, THANE - 400 604.

Borelog

Job No : 17-163

As per IS 1892 : 2002

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624927 m, N - 2550425 m

R. L.: -9.960 m

Location : As per Location Sketch

Bore Hole No. MBH-6

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 08/01/018 to 10/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-9.960						From To	15 30 45 60 N				
0.00				Grayish and light brownish silty sands, poorly graded sand-silt mixtures.		1	DS	0.00 1.50					
1.00						1	SPT	1.50 1.95	11 14 16 - 30				
2.00				Light brownish silty sands, poorly graded sand-silt mixtures.		2	DS	1.95 3.00					
3.00						2	SPT	3.00 3.45	9 11 14 - 25				
4.00	7.95			Dull white and brownish silty sands, poorly graded sand-silt mixtures. Light brownish and dull white silty sands, poorly graded sand-silt mixtures.	SM	3	DS	3.45 4.50					
5.00						3	SPT	4.50 4.95	7 9 15 - 24				
6.00				Brownish silty sands, poorly graded sand-silt mixtures.		4	DS	4.95 6.00					
7.00						4	SPT	6.00 6.45	6 10 16 - 26				
8.00						5	DS	6.45 7.50					
9.00						5	SPT	7.50 7.95	12 16 20 - 36				
10.00													
		-17.910											
8.00				Inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		6	DS	7.95 9.00					
9.00	7.50			Brownish and dull white inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	6	SPT	9.00 9.45	9 14 18 - 32				
10.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		7	DS	9.45 10.50					
						7	SPT	10.50 10.63	50 - - - R				
						8	DS	10.63 12.00					
		-19.960											



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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624927 m, N - 2550425 m

R. L.: -9.960 m

Location : As per Location Sketch

Bore Hole No. MBH-6

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 08/01/018 to 10/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-19.960		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		7	SPT	10.50	10.63	50	-	-	-	R				
						8	DS	10.63	12.00									
11.00																		
12.00						8	SPT	12.00	12.45	12	16	17	-	33				
						9	DS	12.45	13.50									
13.00																		
14.00				Brownish, dull white inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		9	SPT	13.50	13.95	13	15	19	-	34				
						10	DS	13.95	15.00									
15.00						10	SPT	15.00	15.45	20	25	27	-	52				
		-25.410		Brownish silty sands, poorly graded sand-silt mixtures.		11	DS	15.45	16.50									
16.00				Brownish and dull white silty sands, poorly graded sand-silt mixtures. Brownish silty sands, poorly graded sand-silt mixtures.		11	SPT	16.50	16.95	19	21	24	-	45				
						12	DS	16.95	18.00									
17.00																		
18.00						12	SPT	18.00	18.45	18	23	26	-	49				
		-28.410		Inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		13	DS	18.45	19.50									
19.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		13	SPT	19.50	19.95	22	27	32	-	59				
						14	DS	19.95	21.00									
20.00																		
		-29.960																



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SHREE NAGAR, THANE - 400 604.

Borelog

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624927 m, N - 2550425 m

R. L.: -9.960 m

Location : As per Location Sketch

Bore Hole No. MBH-6

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 08/01/018 to 10/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
20.00	3.00	-29.960		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	14	DS	19.95 21.00					
21.00		-31.410				14	SPT	21.00 21.45	17 20 22 - 42				
22.00	3.00			Silty sands, poorly graded sand-silt mixtures. Brownish and dull white silty sands, poorly graded sand-silt mixtures. Brownish silty sands, poorly graded sand-silt mixtures.	SM	15	DS	21.45 22.50					
23.00						15	SPT	22.50 22.95	5 6 9 - 15				
24.00						16	DS	22.95 24.00					
25.00	6.00			Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	16	SPT	24.00 24.45	10 15 18 - 33				
26.00						17	DS	24.45 25.50					
27.00						17	SPT	25.50 25.95	14 18 23 - 41				
28.00						18	DS	25.95 27.00					
29.00						18	SPT	27.00 27.45	18 24 22 - 46				
30.00						19	DS	27.45 28.50					
						19	SPT	28.50 28.79	24 50 - - R				
						20	DS	28.79 30.00					
						20	SPT	30.00 30.45	9 14 14 - 28				
		-40.410		Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.									

DS : Disturbed Sample
UDS : Undisturbed Sample
SPT : Standard Penetration Test
WS : Wash Sample

CR : Core Recovery
RQD : Rock Quality Designation
PR : Rate of Penetration
VST : Vane Shear Test

K : Permeability Test
PT : Packer Permeability Test

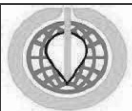
Site Engg.
Mahesh
Mandape

Drawn By
Reena

Checked By
Sandip S. Deshpande

Client Rept.

Bore Termination Depth: 30.45 m



RENUKA CONSULTANTS,
SHOP NO. 1, MEERA MOHAN,
OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

Job No : 17-163

As per IS 1892 : 2002

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624929 m, N - 2550325 m

R. L.: -9.310 m

Location : As per Location Sketch

Bore Hole No. MBH-7

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 05/01/018 to 07/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-9.310						From To	15 30 45 60 N				
0.00				Grayish and white silty sands, poorly graded sand-silt mixtures.		1	DS	0.00 1.50					
1.00						1	SPT	1.50 1.95	8 12 14 - 26				
2.00				Grayish silty sands, poorly graded sand-silt mixtures.		2	DS	1.95 3.00					
3.00				Light brown silty sands, poorly graded sand-silt mixtures.		2	SPT	3.00 3.23	37 50 - - R				
4.00						3	DS	3.23 4.50					
5.00				Brownish silty sands, poorly graded sand-silt mixtures.		3	SPT	4.50 4.95	11 15 19 - 34				
6.00						4	DS	4.95 6.00					
7.00				Yellowish and dull white silty sands, poorly graded sand-silt mixtures.		4	SPT	6.00 6.45	14 23 29 - 52				
8.00						5	DS	6.45 7.50					
9.00				Brownish, dull white silty sands, poorly graded sand-silt mixtures.		5	SPT	7.50 7.95	7 9 15 - 24				
10.00						6	DS	7.95 9.00					
				Dull white and brownish silty sands, poorly graded sand-silt mixtures.		6	SPT	9.00 9.45	6 8 12 - 20				
						7	DS	9.45 10.50					
				Brownish silty sands, poorly graded sand-silt mixtures.		7	SPT	10.50 10.95	11 13 17 - 30				
						8	DS	10.95 12.00					



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Borelog

Job No : 17-163

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Page No : 2 of 3

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624929 m, N - 2550325 m

R. L.: -9.310 m

Location : As per Location Sketch

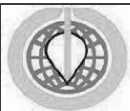
Bore Hole No. MBH-7

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 05/01/018 to 07/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value						TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-19.310																	
						7	SPT	10.50	10.95	11	13	17	-	30					
11.00	12.45			Brownish silty sands, poorly graded sand-silt mixtures.	SM	8	DS	10.95	12.00										
12.00		-21.760				8	SPT	12.00	12.45	13	15	21	-	36					
13.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		9	DS	12.45	13.50										
	3.00				CL	9	SPT	13.50	13.95	9	10	17	-	27					
14.00						10	DS	13.95	15.00										
15.00		-24.760				10	SPT	15.00	15.45	8	12	15	-	27					
16.00	1.50			Brownish inorganic silts and very fine sands rock flour, silty or clayey fine sands or clayey silts with none to low plasticity.	ML	11	DS	15.45	16.50										
		-26.260				11	SPT	16.50	16.95	14	17	24	-	41					
17.00																			
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		12	DS	16.95	18.00										
18.00						12	SPT	18.00	18.45	13	19	22	-	41					
						13	DS	18.45	19.50										
19.00	7.50				CL														
				Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		13	SPT	19.50	19.95	12	20	23	-	43					
20.00																			
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		14	DS	19.95	21.00										
		-29.310																	



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Borelog

Job No : 17-163

As per IS 1892 : 2002

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624929 m, N - 2550325 m

R. L.: -9.310 m

Location : As per Location Sketch

Bore Hole No. MBH-7

Depth of Bore Hole : 30.45 m

Depth of Casing : 30.45 m

Date of Commencement & completion : 05/01/018 to 07/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
20.00		-29.310		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		14	DS	19.95 21.00					
21.00						14	SPT	21.00 21.45	14 21 23 - 44				
22.00	7.50				CL	15	DS	21.45 22.50					
23.00						15	SPT	22.50 22.95	11 13 24 - 37				
24.00		-33.760				16	DS	22.95 24.00					
						16	SPT	24.00 24.45	13 18 23 - 41				
25.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		17	DS	24.45 25.50					
26.00	3.00				CI	17	SPT	25.50 25.95	15 20 25 - 45				
27.00		-36.760				18	DS	25.95 27.00					
						18	SPT	27.00 27.45	13 17 28 - 45				
28.00				Inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		19	DS	27.45 28.50					
29.00	3.00			Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	19	SPT	28.50 28.95	10 16 22 - 38				
30.00						20	DS	28.95 30.00					
						20	SPT	30.00 30.45	12 16 24 - 40				
		-39.760											

DS : Disturbed Sample

UDS : Undisturbed Sample

SPT : Standard Penetration Test

WS : Wash Sample

CR : Core Recovery

RQD : Rock Quality Designation

PR : Rate of Penetration

VST : Vane Shear Test

K : Permeability Test

PT : Packer Permeability Test

Site Engg.
Mahesh
Mandape

Drawn By
Reena

Checked By
Sandip S. Deshpande

Client Rept.

Bore Termination Depth: 30.45 m



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Borelog

Job No : 17-163

As per IS 1892 : 2002

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624837 m, N - 2550294 m

R. L.: -3.100 m

Location : As per Location Sketch

Bore Hole No. MBH-8

Depth of Bore Hole : 31.95 m

Depth of Casing : 31.95 m

Date of Commencement & completion : 02/01/018 to 04/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-3.100						From To	15 30 45 60 N				
0.00				Dark grayish inorganic clays of high plasticity, fat clays. Marine clay.		1	DS	0.00 1.50					
1.00						1	UDS	1.50 1.95					
2.00						2	DS	1.95 3.00					
3.00						1	SPT	3.00 3.45	1 2 3 - 5				
4.00						3	DS	3.45 4.50					
4.45						2	UDS	4.50 4.95					
5.00						4	DS	4.95 6.00					
6.00				Grayish inorganic clays of high plasticity, fat clays.		2	SPT	6.00 6.45	2 2 3 - 5				
7.00						5	DS	6.45 7.50					
8.00				Yellowish brown inorganic clays of high plasticity, fat clays.		3	SPT	7.50 7.95	9 11 13 - 24				
9.00						6	DS	7.95 9.00					
9.45						4	SPT	9.00 9.45	7 9 13 - 22				
10.00	1.05	-12.550		Yellowish brown silty sands, poorly graded sand-silt mixtures.	SM	7	DS	9.45 10.50					
		-13.600											
	3.45	-13.100		Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	5	SPT	10.50 10.95	9 13 18 - 31				



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Borelog

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Job No : 17-163

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624837 m, N - 2550294 m

R. L.: -3.100 m

Location : As per Location Sketch

Bore Hole No. MBH-8

Depth of Bore Hole : 31.95 m

Depth of Casing : 31.95 m

Date of Commencement & completion : 02/01/018 to 04/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value						TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-13.100																	
				Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		5	SPT	10.50	10.95	9	13	18	-	31					
11.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		8	DS	10.95	12.00										
	3.45				CI														
12.00				Light brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		6	SPT	12.00	12.45	11	14	20	-	34					
						9	DS	12.45	13.50										
13.00																			
				Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		7	SPT	13.50	13.95	12	13	17	-	30					
		-17.050		Silty sands, poorly graded sand-silt mixtures.		10	DS	13.95	15.00										
14.00					SM														
	2.05			Brownish silty sands, poorly graded sand-silt mixtures.		8	SPT	15.00	15.45	12	17	24	-	41					
						11	DS	15.45	16.00										
16.00		-19.100																	
				Brown and yellowish brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		9	SPT	16.00	16.45	17	18	23	-	41					
17.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		12	DS	16.45	18.00										
					CL														
18.00						10	SPT	18.00	18.45	9	11	14	-	25					
	5.45					13	DS	18.45	19.50										
19.00																			
				Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		11	SPT	19.50	19.95	8	9	10	-	19					
20.00						14	DS	19.95	21.00										
		-23.100																	



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Borelog

As per IS 1892 : 2002

Job No : 17-163

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624837 m, N - 2550294 m

R. L.: -3.100 m

Location : As per Location Sketch


Bore Hole No. MBH-8

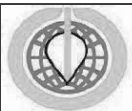
Depth of Bore Hole : 31.95 m

Depth of Casing : 31.95 m

Date of Commencement & completion : 02/01/018 to 04/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings	
20.00	5.45	-23.100		Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasti- city.	CL	14	DS	19.95	21.00										
21.00																			
22.00	10.50	-24.550		Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	15	DS	21.45	22.50										
23.00																			
24.00																			
25.00						Dark brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.													
26.00						Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.													
27.00						Brown and yellowish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity. Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.													
28.00																			
29.00																			
30.00			Dark brown and grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.																
		-33.100																	

 RENUKA CONSULTANTS, SHOP NO. 1, MEERA MOHAN, OPP. KRANTI TOWER, SECTOR NO. 3, SHREE NAGAR, THANE - 400 604.										Borelog As per IS 1892 : 2002					Job No : 17-163 Page No : 4 of 4									
Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla. Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).																								
Co - ordinates : - E - 0624837 m, N - 2550294 m R. L.: -3.100 m Location : As per Location Sketch										Bore Hole No. MBH-8 Depth of Bore Hole : 31.95 m Depth of Casing : 31.95 m Date of Commencement & completion : 02/01/018 to 04/01/018														
Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings						
30.00	10.50	-33.100		Dark brown and grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity. Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity. Dark brown inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	18	SPT	30.00	30.45	14	18	23	-	41										
21						DS	30.45	31.50																
19						SPT	31.50	31.95	13	16	21	-	37											
31.00																								
		-35.050																						
DS : Disturbed Sample UDS : Undisturbed Sample SPT : Standard Penetration Test WS : Wash Sample															CR : Core Recovery RQD : Rock Quality Designation PR : Rate of Penetration VST : Vane Shear Test					K : Permeability Test PT : Packer Permeability Test				
Site Engg. Mahesh Mandape		Drawn By Reena		Checked By Sandip S. Deshpande			Client Rept.		Bore Termination Depth: 31.95 m															



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OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

Job No : 17-163

As per IS 1892 : 2002

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Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624902 m, N - 2550224 m

R. L.: -9.970 m

Location : As per Location Sketch

Bore Hole No. MBH-9

Depth of Bore Hole : 30.28 m

Depth of Casing : 30.28 m

Date of Commencement & completion : 11/01/018 to 13/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-9.970						From To	15 30 45 60 N				
0.00				Dark grayish silty sands, poorly graded sand-silt mixtures.		1	DS	0.00 1.50					
1.00													
				Grayish silty sands, poorly graded sand-silt mixtures.		1	SPT	1.50 1.95	2 4 6 - 10				
2.00				Grayish and brownish silty sands, poorly graded sand-silt mixtures.		2	DS	1.95 3.00					
3.00				Light brownish silty sands, poorly graded sand-silt mixtures.		2	SPT	3.00 3.45	10 13 16 - 29				
				Brownish and dull white silty sands, poorly graded sand-silt mixtures.		3	DS	3.45 4.50					
4.00													
				Light brownish silty sands, poorly graded sand-silt mixtures.		3	DS	4.50 4.77	18 50 - - R				
5.00	12.45			Brownish silty sands, poorly graded sand-silt mixtures.		4	DS	4.77 6.00					
6.00					SM								
						4	SPT	6.00 6.24	25 50 - - R				
7.00						5	DS	6.24 7.50					
						5	SPT	7.50 7.95	14 24 32 - 56				
8.00						6	DS	7.95 9.00					
9.00													
						6	SPT	9.00 9.37	18 37 50 - R				
						7	DS	9.37 10.50					
10.00													
						7	SPT	10.50 10.95	10 14 19 - 33				
		-19.970				8	DS	10.95 12.00					



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SHREE NAGAR, THANE - 400 604.

Borelog
As per IS 1892 : 2002

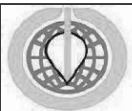
Job No : 17-163
Page No : 2 of 3

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624902 m, N - 2550224 m
R. L.: -9.970 m
Location : As per Location Sketch

Bore Hole No. MBH-9
Depth of Bore Hole : 30.28 m
Depth of Casing : 30.28 m
Date of Commencement & completion : 11/01/018 to 13/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings				
10.00	12.45	-19.970		Brownish silty sands, poorly graded sand-silt mixtures.	SM	7	SPT	10.50	10.95	10	14	19	-	33								
		8				DS	10.95	12.00														
11.00																						
12.00																						
		-22.420				8	SPT	12.00	12.45	8	12	16	-	28								
	9.00			Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	9	DS	12.45	13.50													
13.00										9	SPT	13.50	13.95	8					9	13	-	22
									10	DS	13.95	15.00										
14.00																						
									10	SPT	15.00	15.45	11	13					16	-	29	
15.00									11	DS	15.45	16.50										
16.00																						
									11	SPT	16.50	16.95	9	13					18	-	31	
17.00									12	DS	16.95	18.00										
18.00									12	SPT	18.00	18.45	13	17					21	-	38	
									13	DS	18.45	19.50										
19.00																						
				13	SPT	19.50	19.95	15	17	20	-	37										
20.00				14	DS	19.95	21.00															
		-29.970																				



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OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

Job No : 17-163

As per IS 1892 : 2002

Page No : 3 of 3

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624902 m, N - 2550224 m

R. L.: -9.970 m

Location : As per Location Sketch

Bore Hole No. MBH-9

Depth of Bore Hole : 30.28 m

Depth of Casing : 30.28 m

Date of Commencement & completion : 11/01/018 to 13/01/018

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
20.00	9.00	-29.970		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	14	DS	19.95 21.00					
21.00		-31.420				14	SPT	21.00 21.45	10 14 19 - 33				
22.00	1.50			Inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	15	DS	21.45 22.50					
23.00		-32.920		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		15	SPT	22.50 22.95	12 16 20 - 36				
24.00	4.50			Brownish silty sands, poorly graded sand-silt mixtures.	SM	16	DS	22.95 24.00					
25.00						16 17	SPT DS	24.00 24.45 24.45 25.50	17 22 24 - 46				
26.00						17	SPT	25.50 25.95	24 26 30 - 56				
27.00		-37.420				18	DS	25.95 27.00					
28.00	1.50			Inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.	CL	19	DS	27.45 28.50					
29.00		-38.920		Dark brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		19	SPT	28.50 28.95	10 16 19 - 35				
30.00	1.33			Brownish silty sands, poorly graded sand-silt mixtures.	SM	20	DS	28.95 30.00					
		-40.250		Light brownish silty sands, poorly graded sand-silt mixtures.		20	SPT	30.00 30.28	40 50 - - R				

DS : Disturbed Sample

UDS : Undisturbed Sample

SPT : Standard Penetration Test

WS : Wash Sample

CR : Core Recovery

RQD : Rock Quality Designation

PR : Rate of Penetration

VST : Vane Shear Test

K : Permeability Test

PT : Packer Permeability Test

Site Engg.
Mahesh
Mandape

Drawn By
Reena

Checked By
Sandip S. Deshpande

Client Rept.

Bore Termination Depth: 30.45 m



RENUKA CONSULTANTS,
SHOP NO. 1, MEERA MOHAN,
OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

Job No : 17-163

As per IS 1892 : 2002

Page No : 1 of 3

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624908 m, N - 2550131 m

R. L.: -8.950 m

Location : As per Location Sketch

Bore Hole No. MBH-10

Depth of Bore Hole : 30.13 m

Depth of Casing : 30.13 m

Date of Commencement & completion : 16/12/017 to 18/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)	SPT 'N' Value	TCR (%)	SCR (%)	RQD (%)	Rock ratings
	0.00	-8.950						From To	15 30 45 60 N				
0.00				Dull white silty sands, poorly graded sand-silt mixtures.		1	DS	0.00 1.50					
1.00													
				Grayish and dull white silty sands, poorly graded sand-silt mixtures.		1	SPT	1.50 1.95	5 9 16 - 25				
2.00				White silty sands, poorly graded sand-silt mixtures.		2	DS	1.95 3.00					
3.00				Grayish silty sands, poorly graded sand-silt mixtures.		2	SPT	3.00 3.45	4 8 10 - 18				
				Light brownish silty sands, poorly graded sand-silt mixtures.		3	DS	3.45 4.50					
4.00													
				Dull white and pale brownish silty sands, poorly graded sand-silt mixtures.		3	SPT	4.50 4.95	16 20 33 - 53				
5.00				Dark brownish and dull white silty sands, poorly graded sand-silt mixtures.		4	DS	4.95 6.00					
	13.95				SM								
6.00				Dull white and light grayish silty sands, poorly graded sand-silt mixtures.		4	SPT	6.00 6.14	50 - - - R				
				Dark brownish and dull white silty sands, poorly graded sand-silt mixtures.		5	DS	6.14 7.50					
7.00													
				Dark brownish silty sands, poorly graded sand-silt mixtures.		5	SPT	7.50 7.95	15 18 22 - 40				
8.00				Dark brownish and dull white silty sands, poorly graded sand-silt mixtures.		6	DS	7.95 9.00					
9.00				Brownish silty sands, poorly graded sand-silt mixtures.		6	SPT	9.00 9.45	16 20 25 - 45				
						7	DS	9.45 10.50					
10.00													
						7	SPT	10.50 10.95	14 22 28 - 50				
		-18.950				8	DS	10.95 12.00					



RENUKA CONSULTANTS,
SHOP NO. 1, MEERA MOHAN,
OPP. KRANTI TOWER, SECTOR NO. 3,
SHREE NAGAR, THANE - 400 604.

Borelog

Job No : 17-163

As per IS 1892 : 2002

Page No : 2 of 3

Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla.
Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS).

Co - ordinates : - E - 0624908 m, N - 2550131 m

R. L.: -8.950 m

Location : As per Location Sketch


Bore Hole No. MBH-10

Depth of Bore Hole : 30.13 m

Depth of Casing : 30.13 m

Date of Commencement & completion : 16/12/017 to 18/12/017

Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value					TCR (%)	SCR (%)	RQD (%)	Rock ratings
10.00		-18.950																
				Brownish silty sands, poorly graded sand-silt mixtures.		7	SPT	10.50	10.95	14	22	28	-	50				
11.00						8	DS	10.95	12.00									
	13.95				SM													
12.00						8	SPT	12.00	12.45	13	17	21	-	38				
				Light brownish and dull white silty sands, poorly graded sand-silt mixtures.		9	DS	12.45	13.50									
13.00																		
				Dark brownish silty sands, poorly graded sand-silt mixtures.		9	SPT	13.50	13.95	12	15	19	-	34				
		-22.900																
14.00				Light brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.		10	DS	13.95	15.00									
	1.50				CL													
15.00						10	SPT	15.00	15.45	15	17	18	-	35				
		-24.400		Pale brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of low plasticity.														
				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.														
16.00						11	DS	15.45	16.50									
						11	SPT	16.50	16.95	16	19	23	-	42				
17.00						12	DS	16.95	18.00									
18.00	14.68				CI	12	SPT	18.00	18.42	18	20	50	-	R				
						13	DS	18.42	19.50									
19.00																		
						13	SPT	19.50	19.95	13	16	20	-	36				
20.00						14	DS	19.95	21.00									
		-28.950																

 RENUKA CONSULTANTS, SHOP NO. 1, MEERA MOHAN, OPP. KRANTI TOWER, SECTOR NO. 3, SHREE NAGAR, THANE - 400 604.										Borelog				Job No : 17-163																																							
										As per IS 1892 : 2002				Page No : 3 of 3																																							
Project :- Proposed Construction of Oil Jetties No: 8 and 9 of Old Kandla. Client :- URS SCOTT WILSON INDIA PVT. LTD. (URS). Co - ordinates : - E - 0624908 m, N - 2550131 m R. L.: -8.950 m Location : As per Location Sketch																		Bore Hole No. MBH-10 Depth of Bore Hole : 30.13 m Depth of Casing : 30.13 m Date of Commencement & completion : 16/12/017 to 18/12/017																																			
Depth/ Scale (m)	Thk. (m)	R.L. (m)	Log	Material Description	Group Symbol	Sample No.	Type	Depth (m)		SPT 'N' Value				TCR (%)	SCR (%)	RQD (%)	Rock ratings																																				
20.00		-28.950		Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		14	DS	19.95	21.00																																												
21.00						14	SPT	21.00	21.45	16	19	23	-	42																																							
					Brownish and dull white inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		15	DS	21.45	22.50																																											
22.00																																																					
					Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		15	SPT	22.50	22.95	14	21	27	-	48																																						
23.00							16	DS	22.95	24.00																																											
24.00							16	SPT	24.00	24.45	15	18	23	-	41																																						
							17	DS	24.45	25.50																																											
25.00	14.68				Grayish and brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.	CI	17	SPT	25.50	25.88	15	32	50	-	R																																						
26.00					Grayish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		18	DS	25.88	27.00																																											
27.00					Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		18	SPT	27.00	27.27	19	50	-	-	R																																						
					Grayish and brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		19	DS	27.27	28.50																																											
28.00																																																					
29.00				Brownish inorganic clays, gravelly clays, sandy clays, silty clays, lean clays of medium plasticity.		19	SPT	28.50	28.89	22	33	50	-	R																																							
						20	DS	28.89	30.00																																												
30.00						20	SPT	30.00	30.13	50	-	-	-	R																																							
		-39.080																																																			
DS : Disturbed Sample UDS : Undisturbed Sample SPT : Standard Penetration Test WS : Wash Sample																		CR : Core Recovery RQD : Rock Quality Designation PR : Rate of Penetration VST : Vane Shear Test																		K : Permeability Test PT : Packer Permeability Test																	
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