

BORE LOG DATA SHEET

BOREHOLE NO: 62						SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 62				
BORING METHOD: Shell and Auger / Rotary Drilling						LOCATION : RMHP		SHEET : 1				
DATE OF COMMENCEMENT: 12.06.2010						CO-ORDINATE: X 4702, Y 5318		RL : 561.106m				
DATE OF COMPLETION : 13.06.2010						ORIENTATION : Vertical		DEPTH : 12.50m				
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION						
DEPTH (m)	TYPE	NO.										
0.70	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.						
1.50 – 1.95	U	1		-								
3.00 – 3.45	P	1		38								
4.50 – 4.95	P	2		59								
5.50 – 5.60	P	3		>100 (79 blows for 10 cm penetration)								
DRILLING					INSITU TEST		5.50	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.				
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE						
5.50	6.50	1.00	Nil	Nil	P4	>100						
6.50	7.50	1.00	Nil	Nil	-	-						
7.50	8.50	1.00	Nil	Nil	P5	>100						
8.50	9.50	1.00	Nil	Nil	-	-						
9.50	10.50	1.00	Nil	Nil	P6	>100						
10.50	11.50	1.00	Nil	Nil	-	-						
11.50	12.50	1.00	Nil	Nil	P7	>100	12.50					
Water Level Observation					Remarks – Borehole is terminated at 12.50 m below existing ground level.					SWL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test	
Date	Time	Water Lev. Below GL.										



BORE LOG DATA SHEET

BOREHOLE NO: 63					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 63								
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1								
DATE OF COMMENCEMENT: 13.06.2010					CO-ORDINATE: X 4680, Y 5114		RL : 561.106m								
DATE OF COMPLETION : 14.06.2010					ORIENTATION : Vertical		DEPTH : 12.00m								
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION									
DEPTH (m)	TYPE	NO.													
0.60	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.									
1.50 – 1.95	P	1		33	5.00										
3.00 – 3.45	P	2		45											
4.00 – 4.45	P	3		76											
5.00 – 5.10	P	4		>100 (62 blows for 10 cm penetration)			5.00								
DRILLING					INSITU TEST										
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE									
5.00	6.00	1.00	Nil	Nil	P5	>100									
6.00	7.00	1.00	Nil	Nil	-	-									
7.00	8.00	1.00	Nil	Nil	P6	>100									
8.00	9.00	1.00	Nil	Nil	-	-									
9.00	10.00	1.00	Nil	Nil	P7	>100									
10.00	11.00	1.00	Nil	Nil	-	-									
11.00	12.00	1.00	Nil	Nil	P8	>100									
							12.00								
Water Level Observation <table border="1"> <tr> <th>Date</th> <th>Time</th> <th>Water Lev. Below GL.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>							Date	Time	Water Lev. Below GL.				Remarks – Borehole is terminated at 12.00 m below existing ground level.	SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.													



BORE LOG DATA SHEET

BOREHOLE NO: 64					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 64		
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1		
DATE OF COMMENCEMENT: 12.06.2010					CO-ORDINATE: X 4683, Y 4985		RL : 560.983m		
DATE OF COMPLETION : 13.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m		
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION			
DEPTH (m)	TYPE	NO.							
0.60	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.			
1.50 – 1.95	P	1		24					
3.00 – 3.45	P	1		41					
4.50 – 4.95	P	2		66					
5.50 – 5.65	P	3		>100 (69 blows for 15 cm penetration)	5.50				
DRILLING					INSITU TEST		Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.		
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE			
5.50	6.50	1.00	Nil	Nil	P4	>100			
6.50	7.50	1.00	Nil	Nil	-	-			
7.50	8.50	1.00	Nil	Nil	P5	>100			
8.50	9.50	1.00	5	Nil	-	-			
9.50	10.50	1.00	Nil	Nil	P6	>100			
10.50	11.50	1.00	Nil	Nil	-	-			
11.50	12.50	1.00	Nil	Nil	P7	>100	12.50		
Water Level Observation					Remarks – Borehole is terminated at 12.50 m below existing ground level.		SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test	
Date	Time	Water Lev. Below GL.							



BORE LOG DATA SHEET

BOREHOLE NO: 65					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 65	
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1	
DATE OF COMMENCEMENT: 12.06.2010					CO-ORDINATE: X 4708, Y 4844		RL : 561.084m	
DATE OF COMPLETION : 12.06.2010					ORIENTATION : Vertical		DEPTH : 12.00m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.70	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.		
1.50 – 1.95	P	1		26				
3.00 – 3.45	U	1		-				
4.00 – 4.45	P	2		67				
5.00 – 5.12	P	3		>100 (52 blows for 12 cm penetration)	5.00			
DRILLING					INSITU TEST			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE		
5.00	6.00	1.00	Nil	Nil	P4	>100		
6.00	7.00	1.00	Nil	Nil	-	-		
7.00	8.00	1.00	Nil	Nil	P5	>100		
8.00	9.00	1.00	Nil	Nil	-	-		
9.00	10.00	1.00	Nil	Nil	P6	>100		
10.00	11.00	1.00	Nil	Nil	-	-		
11.00	12.00	1.00	Nil	Nil	P7	>100	12.00	
Water Level Observation					Remarks – Borehole is terminated at 12.00 m below existing ground level.		SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.						



BORE LOG DATA SHEET

BOREHOLE NO: 66					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 66	
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1	
DATE OF COMMENCEMENT: 12.06.2010					CO-ORDINATE: X 4600, Y 4852		RL : 560.860m	
DATE OF COMPLETION : 12.06.2010					ORIENTATION : Vertical		DEPTH : 13.00m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.40	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.		
1.50 – 1.95	P	1		43				
3.00 – 3.45	P	2		38				
4.50 – 4.95	P	3		47				
6.00 – 6.08	P	4		>100 (57 blows for 8 cm penetration)	6.00			
DRILLING					INSITU TEST			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE		
6.00	7.00	1.00	Nil	Nil	P5	>100		
7.00	8.00	1.00	Nil	Nil	-	-		
8.00	9.00	1.00	Nil	Nil	P6	>100		
9.00	10.00	1.00	Nil	Nil	-	-		
10.00	11.00	1.00	Nil	Nil	P7	>100		
11.00	12.00	1.00	8	Nil	-	-		
12.00	13.00	1.00	Nil	Nil	P8	>100	13.00	
Water Level Observation					Remarks – Borehole is terminated at 13.00 m below existing ground level.		SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.						



BORE LOG DATA SHEET

BOREHOLE NO: 232						SITE: NMDC,Nagarnar,Chhattishgarh		BORELOG : 232	
BORING METHOD: Shell and Auger / Rotary Drilling						LOCATION : RMHP		SHEET : 1	
DATE OF COMMENCEMENT: 12.06.2010						CO-ORDINATE: X 4277, Y 5227		RL : 557.943m	
DATE OF COMPLETION : 13.06.2010						ORIENTATION : Vertical		DEPTH : 10.50m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION			
DEPTH (m)	TYPE	NO.							
0.50	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches. <			



BORE LOG DATA SHEET

BOREHOLE NO: 233					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 233			
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1			
DATE OF COMMENCEMENT: 14.06.2010					CO-ORDINATE: X 4223, Y 5319		RL : 557.902m			
DATE OF COMPLETION : 15.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m			
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION				
DEPTH (m)	TYPE	NO.								
0.50	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.				
1.50 – 1.95	P	1		29						
3.00 – 3.45	P	2		47						
4.50 – 4.95	P	3		53						
5.50 – 5.55	P	4		>100 (54 blows for 5 cm penetration)						
					5.50	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.				
DRILLING				INSITU TEST						
FROM	TO	NET RUN	REC. %	RQD. %	TYPE				N VALUE	
5.50	6.50	1.00	Nil	Nil	P5				>100	
6.50	7.50	1.00	Nil	Nil	-				-	
7.50	8.50	1.00	Nil	Nil	P6				>100	
8.50	9.50	1.00	Nil	Nil	-				-	
9.50	10.50	1.00	Nil	Nil	P7				>100	
10.50	11.50	1.00	Nil	Nil	-				-	
11.50	12.50	1.00	Nil	Nil	P8				>100	
					12.50					
Water Level Observation			Remarks – Borehole is terminated at 12.50 m below existing ground level.						SWL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.								



BORE LOG DATA SHEET

BOREHOLE NO: 234					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 234		
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1		
DATE OF COMMENCEMENT: 10.06.2010					CO-ORDINATE: X 4329, Y 5139		RL : 558.341m		
DATE OF COMPLETION : 11.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m		
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION			
DEPTH (m)	TYPE	NO.							
0.50	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.			
1.50 – 1.95	P	1		31					
3.00 – 3.45	P	2		44					
4.50 – 4.70	P	3		>100					
5.50 – 5.55	P	4		>100 (52 blows for 5 cm penetration)					
					5.50	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.			
DRILLING				INSITU TEST					
FROM	TO	NET RUN	REC. %	RQD. %	TYPE				N VALUE
5.50	6.50	1.00	Nil	Nil	P5				>100
6.50	7.50	1.00	Nil	Nil	-				-
7.50	8.50	1.00	Nil	Nil	P6				>100
8.50	9.50	1.00	Nil	Nil	-				-
9.50	10.50	1.00	Nil	Nil	P7				>100
10.50	11.50	1.00	Nil	Nil	-				-
11.50	12.50	1.00	Nil	Nil	P8				>100
					12.50				
Water Level Observation			Remarks – Borehole is terminated at 12.50 m below existing ground level.			SWL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test		
Date	Time	Water Lev. Below GL.							



BORE LOG DATA SHEET

BOREHOLE NO: 238					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 238		
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1		
DATE OF COMMENCEMENT: 12.06.2010					CO-ORDINATE: X 4328, Y 5317		RL : 560.882m		
DATE OF COMPLETION : 12.06.2010					ORIENTATION : Vertical		DEPTH : 13.00m		
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION			
DEPTH (m)	TYPE	NO.							
0.40	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.			
1.50 – 1.95	P	1		34					
3.00 – 3.45	P	2		37					
4.50 – 4.95	P	3		59					
6.00 – 6.10	P	4		>100 (67 blows for 10 cm penetration)					
					6.00	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.			
DRILLING					INSITU TEST				
FROM	TO	NET RUN	REC. %	RQD. %	TYPE				N VALUE
6.00	7.00	1.00	Nil	Nil	P5				>100
7.00	8.00	1.00	Nil	Nil	-				-
8.00	9.00	1.00	Nil	Nil	P6				>100
9.00	10.00	1.00	Nil	Nil	-				-
10.00	11.00	1.00	Nil	Nil	P7				>100
11.00	12.00	1.00	Nil	Nil	-				-
12.00	13.00	1.00	Nil	Nil	P8				>100
					13.00				
Water Level Observation					Remarks – Borehole is terminated at 13.00 m below existing ground level.		SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test	
Date	Time	Water Lev. Below GL.							



BORE LOG DATA SHEET

BOREHOLE NO: 239					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 239	
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1	
DATE OF COMMENCEMENT: 12.06.2010					CO-ORDINATE: X 4558, Y 5348		RL : 560.863m	
DATE OF COMPLETION : 13.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.40	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.		
1.50 – 1.95	U	1		-				
3.00 – 3.45	P	1		43				
4.50 – 4.95	P	2		64				
5.50 – 5.60	P	3		>100 (67 blows for 10 cm penetration)	5.50			
DRILLING					INSITU TEST			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE		
5.50	6.50	1.00	Nil	Nil	P4	>100	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.	
6.50	7.50	1.00	Nil	Nil	-	-		
7.50	8.50	1.00	Nil	Nil	P5	>100		
8.50	9.50	1.00	Nil	Nil	-	-		
9.50	10.50	1.00	Nil	Nil	P6	>100		
10.50	11.50	1.00	Nil	Nil	-	-		
11.50	12.50	1.00	Nil	Nil	P7	>100		
						12.50		
Water Level Observation			Remarks – Borehole is terminated at 12.50 m below existing ground level.			SWL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test	
Date	Time	Water Lev. Below GL.						



BORE LOG DATA SHEET

BOREHOLE NO: 240						SITE: NMDC,Nagarnar,Chhattishgarh		BORELOG : 240	
BORING METHOD: Shell and Auger / Rotary Drilling						LOCATION : RMHP		SHEET : 1	
DATE OF COMMENCEMENT: 12.06.2010						CO-ORDINATE: X 4584, Y 5257		RL : 560.817m	
DATE OF COMPLETION : 12.06.2010						ORIENTATION : Vertical		DEPTH : 13.00m	
SAMPLE & INSITU TESTS					CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION	
DEPTH (m)	TYPE	NO.							
0.60	D	1			-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.		
1.50 – 1.95	P	1			21	6.00			
3.00 – 3.45	P	2			38				
4.50 – 4.95	P	3			42				
6.00 – 6.08	P	4			>100 (59 blows for 8 cm penetration)				
									13.00
DRILLING				INSITU TEST					
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE			
6.00	7.00	1.00	Nil	Nil	P5	>100			
7.00	8.00	1.00	Nil	Nil	-	-			
8.00	9.00	1.00	Nil	Nil	P6	>100			
9.00	10.00	1.00	Nil	Nil	-	-			
10.00	11.00	1.00	Nil	Nil	P7	>100			
11.00	12.00	1.00	Nil	Nil	-	-			
12.00	13.00	1.00	Nil	Nil	P8	>100			
Water Level Observation					Remarks – Borehole is terminated at 13.00 m below existing ground level.		SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test	
Date	Time	Water Lev. Below GL.							



BORE LOG DATA SHEET

BOREHOLE NO: 241					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 241	
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1	
DATE OF COMMENCEMENT: 11.06.2010					CO-ORDINATE: X 4579, Y 5032		RL : 560.553m	
DATE OF COMPLETION : 12.06.2010					ORIENTATION : Vertical		DEPTH : 12.00m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.50	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.		
1.50 – 1.95	P	1		29	5.00			
3.00 – 3.45	P	2		35				
4.00 – 4.45	P	3		71				
5.00 – 5.08	P	4		>100 (52 blows for 8 cm penetration)				
DRILLING				INSITU TEST			Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone	
FROM	TO	NET RUN	REC. %	RQD. %	TYPE			N VALUE
5.00	6.00	1.00	Nil	Nil	P5			>100
6.00	7.00	1.00	Nil	Nil	-			-
7.00	8.00	1.00	Nil	Nil	P6			>100
8.00	9.00	1.00	Nil	Nil	-	-		
9.00	10.00	1.00	Nil	Nil	P7	>100		
10.00	11.00	1.00	Nil	Nil	-	-		
11.00	12.00	1.00	Nil	Nil	P8	>100		
					12.00			
Water Level Observation			Remarks – Borehole is terminated at 12.00 m below existing ground level.			SWL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test	
Date	Time	Water Lev. Below GL.						



BORE LOG DATA SHEET

BOREHOLE NO: 242					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 242			
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1			
DATE OF COMMENCEMENT: 10.06.2010					CO-ORDINATE: X 4546, Y 4802		RL : 560.782m			
DATE OF COMPLETION : 12.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m			
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION				
DEPTH (m)	TYPE	NO.								
0.50	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.				
1.50 – 1.95	P	1		27						
3.00 – 3.45	P	2		44						
4.50 – 4.95	P	3		61						
5.50 – 5.57	P	4		>100 (53 blows for 7 cm penetration)						
					5.50	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.				
DRILLING				INSITU TEST						
FROM	TO	NET RUN	REC. %	RQD. %	TYPE				N VALUE	
5.50	6.50	1.00	Nil	Nil	P5				>100	
6.50	7.50	1.00	Nil	Nil	-				-	
7.50	8.50	1.00	Nil	Nil	P6				>100	
8.50	9.50	1.00	Nil	Nil	-				-	
9.50	10.50	1.00	Nil	Nil	P7				>100	
10.50	11.50	1.00	Nil	Nil	-				-	
11.50	12.50	1.00	Nil	Nil	P8				>100	
					12.50					
Water Level Observation			Remarks – Borehole is terminated at 12.50 m below existing ground level.						SWL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.								



BORE LOG DATA SHEET

BOREHOLE NO: 244					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 244			
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1			
DATE OF COMMENCEMENT: 10.06.2010					CO-ORDINATE: X 4509, Y 5141		RL : 557.827m			
DATE OF COMPLETION : 11.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m			
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION				
DEPTH (m)	TYPE	NO.								
0.50	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.				
1.50 – 1.95	P	1		28						
3.00 – 3.45	U	1		-						
4.50 – 4.95	P	2		64						
5.50 – 5.55	P	3		>100 (52 blows for 5 cm penetration)						
					5.50	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone				
DRILLING				INSITU TEST						
FROM	TO	NET RUN	REC. %	RQD. %	TYPE				N VALUE	
5.50	6.50	1.00	Nil	Nil	P4				>100	
6.50	7.50	1.00	Nil	Nil	-				-	
7.50	8.50	1.00	Nil	Nil	P5				>100	
8.50	9.50	1.00	Nil	Nil	-				-	
9.50	10.50	1.00	Nil	Nil	P6				>100	
10.50	11.50	1.00	Nil	Nil	-				-	
11.50	12.50	1.00	Nil	Nil	P7				>100	
					12.50					
Water Level Observation			Remarks – Borehole is terminated at 12.50 m below existing ground level.						SWL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.								



BORE LOG DATA SHEET

BOREHOLE NO: 245					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 245		
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : RMHP		SHEET : 1		
DATE OF COMMENCEMENT: 11.06.2010					CO-ORDINATE: X 4381, Y 5213		RL : 558.548m		
DATE OF COMPLETION : 12.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m		
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION			
DEPTH (m)	TYPE	NO.							
0.60	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.			
1.50 – 1.95	U	1		-					
3.00 – 3.45	P	1		41					
4.50 – 4.95	P	2		65					
5.50 – 5.60	P	3		>100 (58 blows for 10 cm penetration)					
					5.50	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.			
DRILLING				INSITU TEST					
FROM	TO	NET RUN	REC. %	RQD. %	TYPE				N VALUE
5.50	6.50	1.00	Nil	Nil	P4				>100
6.50	7.50	1.00	Nil	Nil	-				-
7.50	8.50	1.00	Nil	Nil	P5				>100
8.50	9.50	1.00	Nil	Nil	-				-
9.50	10.50	1.00	Nil	Nil	P6				>100
10.50	11.50	1.00	Nil	Nil	-				-
11.50	12.50	1.00	Nil	Nil	P7				>100
Water Level Observation			Remarks – Borehole is terminated at 12.50 m below existing ground level.			SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test		
Date	Time	Water Lev. Below GL.							



BORE LOG DATA SHEET

BOREHOLE NO: 57						SITE: NMDC,Nagarnar,Chhattishgarh		BORELOG : 57						
BORING METHOD: Shell and Auger / Rotary Drilling						LOCATION : Blast Furnace		SHEET : 1						
DATE OF COMMENCEMENT: 02.06.2010						CO-ORDINATE: X 5248, Y 5274		RL : 560.992m						
DATE OF COMPLETION : 03.06.2010						ORIENTATION : Vertical		DEPTH : 13.00m						
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION								
DEPTH (m)	TYPE	NO.												
0.40	D	1		-	0.00	Filled up with weathered rock pieces of various sizes. Very stiff to hard, brownish grey / yellowish brown, silty Clay mixed with moorum, kankars and nodules etc with rusty brown / black spot & relatively compacted ferruginous nodules observed at lower reaches.								
1.50 – 1.95	P	1		>100	4.00									
3.00 – 3.45	P	2		>100										
4.50 – 4.66	P	3		58										
6.00 – 6.15	P	4		>100 (71 blows for 15 cm penetration)										
DRILLING			INSITU TEST							6.00	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE					N VALUE				
6.00	7.00	1.00	Nil	Nil	P5					>100				
7.00	8.00	1.00	Nil	Nil	P6					>100				
8.00	9.00	1.00	Nil	Nil	P7					>100				
9.00	10.00	1.00	Nil	Nil	P8					>100				
10.00	11.00	1.00	Nil	Nil	P9	>100								
11.00	12.00	1.00	Nil	Nil	P10	>100								
12.00	13.00	1.00	Nil	Nil	P11	>100	13.00							
Water Level Observation			Remarks – Borehole is terminated at 13.00 m below existing ground level.			SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test							
Date	Time	Water Lev. Below GL.												



BORE LOG DATA SHEET

BOREHOLE NO: 58						SITE: NMDC,Nagarnar,Chhattishgarh		BORELOG : 58			
BORING METHOD: Shell and Auger / Rotary Drilling						LOCATION : Blast Furnace		SHEET : 1			
DATE OF COMMENCEMENT: 03.06.2010						CO-ORDINATE: X 5072, Y 5269		RL : 561.348m			
DATE OF COMPLETION : 03.06.2010						ORIENTATION : Vertical		DEPTH : 13.00m			
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION					
DEPTH (m)	TYPE	NO.									
0.60	D	1		-	0.00	Filled up with weathered rock pieces of various sizes mixed with soil. Very stiff to hard, brownish grey / yellowish brown, silty Clay mixed with moorum, kankars and nodules etc with rusty brown / black spot & relatively compacted ferruginous nodules observed at lower reaches.					
1.50 – 1.95	P	1		71	4.40						
3.00 – 3.45	P	2		>100							
4.50 – 4.66	P	3		61							
6.00 – 6.15	P	4		>100 (53 blows for 15 cm penetration)						6.00	
DRILLING					INSITU TEST		Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone				
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE					
6.00	7.00	1.00	Nil	Nil	P5	>100					13.00
7.00	8.00	1.00	Nil	Nil	P6	>100					
8.00	9.00	1.00	Nil	Nil	P7	>100					
9.00	10.00	1.00	Nil	Nil	P8	>100					
10.00	11.00	1.00	Nil	Nil	P8	>100					
11.00	12.00	1.00	Nil	Nil	P10	>100					
12.00	13.00	1.00	Nil	Nil	P11	>100					
Water Level Observation				Remarks – Borehole is terminated at 13.00 m below existing ground level.		SWL Not Struck					D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.									



BORE LOG DATA SHEET

BOREHOLE NO: 59					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 59	
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : Blast Furnace		SHEET : 1	
DATE OF COMMENCEMENT: 03.06.2010					CO-ORDINATE: X 4995, Y 5273		RL : 561.349m	
DATE OF COMPLETION : 04.06.2010					ORIENTATION : Vertical		DEPTH : 12.50m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.60	D	1		-	0.00	Filled up with weathered rock pieces of various sizes and soil.		
1.50 – 1.65	P	1		>100				
3.00 – 3.15	P	2		>100				
4.50 – 4.95	P	3		56	4.00			
5.50 – 5.62	P	4		>100 (59 blows for 12 cm penetration)				
					5.50	Very stiff to hard, brownish grey / yellowish brown, silty Clay mixed with moorum, kankars and nodules etc with rusty brown / black spot & relatively compacted ferruginous nodules observed at lower reaches.		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone		
						Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale		

BORE LOG DATA SHEET

BOREHOLE NO: 83					SITE: NMDC,Nagarnar,Chhattishgarh		BORELOG : 83		
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : Sinter Plant		SHEET : 1		
DATE OF COMMENCEMENT: 20.06.2010					CO-ORDINATE: X 4990, Y 5779		RL : 557.437m		
DATE OF COMPLETION : 22.06.2010					ORIENTATION : Vertical		DEPTH : 25.00m		
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION			
DEPTH (m)	TYPE	NO.							
0.60	D	1		-	0.00	Filled up with weathered rock pieces of various sizes and soil.			
1.50 – 1.95	U	1		-					
3.00 – 3.45	P	1		28	0.60				
4.50 – 4.95	P	2		44					
6.00 – 6.45	P	3		68					
7.00 – 7.07	P	4		>100 (53 blows for 7 cm penetration)	7.00				
DRILLING				INSITU TEST		<p>Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc.. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches.</p> <p>Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.</p> <p>Highly to moderately weathered decomposed gradually becoming fresh whitish grey fine grained shale.</p>			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE				N VALUE
7.00	8.00	1.00	Nil	Nil	P5				>100
8.00	9.00	1.00	Nil	Nil	6				>100
9.00	10.00	1.00	Nil	Nil	P7				>100
10.00	11.00	1.00	Nil	Nil	P8				>100
11.00	12.00	1.00	Nil	Nil	P9				>100
12.00	13.00	1.00	Nil	Nil	P10				>100
13.00	14.00	1.00	Nil	Nil	P11				>100
14.00	15.00	1.00	Nil	Nil	P12				>100
15.00	16.00	1.00	Nil	Nil	P14				>100
16.00	17.00	1.00	Nil	Nil	P15				>100
17.00	18.00	1.00	Nil	Nil	P16				>100
18.00	19.00	1.00	Nil	Nil	P17				>100
19.00	20.00	1.00	9	Nil	P18				>100
20.00	21.00	1.00	7	Nil	P19				>100
21.00	22.00	1.00	10	Nil	-				-
22.00	23.00	1.00	16	Nil	-				-
23.00	24.00	1.00	22	Nil	-				-
24.00	25.00	1.00	27	Nil	-	-			
Water Level Observation					Remarks – Borehole is terminated at 25.00 m below existing ground level.		SWL Not Struck	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test	
Date	Time	Water Lev. Below GL.							



BORE LOG DATA SHEET

BOREHOLE NO: 196					SITE: NMDC, Nagarnar, Chhattishgarh		BORELOG : 196	
BORING METHOD: Shell and Auger / Rotary Drilling					LOCATION : TF & HSM - CY		SHEET : 1	
DATE OF COMMENCEMENT: 22.06.2010					CO-ORDINATE: X 5091, Y 4229		RL : 561.122m	
DATE OF COMPLETION : 24.06.2010					ORIENTATION : Vertical		DEPTH : 24.00m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.60	D	1		-	0.00	Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc.. Compacted moorum with Rusty brown / black spots & rock fragments observed at lower reaches .		
1.50 – 1.95	P	1		22				
3.00 – 3.45	P	2		56				
4.50 – 4.95	P	3		73				
6.00 – 6.25	P	4		>100				
6.80 – 6.85	P	5		>100				
DRILLING					INSITU TEST			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE		
6.80	7.80	1.00	Nil	Nil	P6	>100		
7.80	8.80	1.00	Nil	Nil	-	-		
8.80	9.80	1.00	Nil	Nil	P7	>100		
9.80	10.80	1.00	Nil	Nil	-	-		
10.80	11.80	1.00	Nil	Nil	P8	>100		
11.80	12.80	1.00	Nil	Nil	-	-		
12.80	13.80	1.00	Nil	Nil	P9	>100		
13.80	14.80	1.00	Nil	Nil	-	-		
14.80	15.80	1.00	Nil	Nil	P10	>100		
15.80	16.80	1.00	Nil	Nil	-	-		
16.80	17.80	1.00	Nil	Nil	P11	>100		
17.80	18.80	1.00	Nil	Nil	-	-		
18.80	19.80	1.00	Nil	Nil	P12	>100		
19.80	20.80	1.00	Nil	Nil	-	-		
20.80	21.80	1.00	6	Nil	-	-	20.80	Highly to moderately weathered, decomposed gradually becoming fresh whitish grey very fine grained shale
21.80	22.80	1.00	9	Nil	-	-		
22.80	24.00	1.20	11	Nil	-	-	2400	
Water Level Observation					Remarks – Borehole is terminated at 24.00 m below existing ground level.		SWL 5.25 metre BGL	D – Distributed Sample B – Bulk Sample W – Water Sample U – Undistributed Sample P – Standard Penetration Test
Date	Time	Water Lev. Below GL.						

