

**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 60					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 60			
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1			
<b>DATE OF COMMENCEMENT:</b> 11.06.2010					<b>CO-ORDINATE:</b> X 4636, Y 5800		<b>RL :</b> 560.787m			
<b>DATE OF COMPLETION :</b> 12.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 12.50m			
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 and soil.				
1.50 – 1.95	P	1		23	0.45					
3.00 – 3.45	P	2		34						
4.50 – 4.95	P	3		56						
5.50 – 5.55	P	4		>100 (67 blows for 5 cm penetration)	5.50					
						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.				
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	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.				
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**

<b>BOREHOLE NO:</b> 61					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 61		
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1		
<b>DATE OF COMMENCEMENT:</b> 14.06.2010					<b>CO-ORDINATE:</b> X 4712, Y 5555		<b>RL :</b> 560.185m		
<b>DATE OF COMPLETION :</b> 15.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 13.30m		
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		15					
3.00 – 3.45	P	2		54					
4.50 – 4.95	P	3		79					
6.30 – 6.35	P	4		>100 (53 blows for 5 cm penetration)					
					6.30	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
6.30	7.30	1.00	Nil	Nil	P5				>100
7.30	8.30	1.00	Nil	Nil	-				-
8.30	9.30	1.00	Nil	Nil	P6				>100
9.30	10.30	1.00	Nil	Nil	-				-
10.30	11.30	1.00	Nil	Nil	P7				>100
11.30	12.30	1.00	Nil	Nil	-				-
12.30	13.30	1.00	Nil	Nil	P8				>100
					13.30				
Water Level Observation			Remarks – Borehole is terminated at 13.30 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: 101							SITE: NMDC,Nagarnar,Chhattishgarh			BORELOG : 101				
BORING METHOD: Shell and Auger / Rotary Drilling							LOCATION : CHP			SHEET : 1				
DATE OF COMMENCEMENT: 10.06.2010							CO-ORDINATE: X 4611, Y 5971			RL : 560.014m				
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.												
0.60	D	1			-	0.00	Filled up with weathered rock pieces of various sizes and soil.							
1.50 – 1.95	U	1			-	0.60								
3.00 – 3.45	P	1			32		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.							
4.50 – 4.95	P	2			57									
5.50 – 5.60	P	3			>100 (59 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  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: 102						SITE: NMDC,Nagarnar,Chhattishgarh		BORELOG : 102	
BORING METHOD: Shell and Auger / Rotary Drilling						LOCATION : CHP		SHEET : 1	
DATE OF COMMENCEMENT: 12.06.2010						CO-ORDINATE: X 4567, Y 5768		RL : 561.068m	
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	Filled up with weathered rock pieces of various sizes and soil.  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		-	0.50				
3.00 – 3.45	P	1		31					
4.50 – 4.95	P	2		49					
6.00 – 6.12	P	3		>100 (67 blows for 12 cm penetration)	6.00				
DRILLING				INSITU TEST					
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE			
6.00	7.00	1.00	Nil	Nil	P4	>100			
7.00	8.00	1.00	Nil	Nil	-	-			
8.00	9.00	1.00	Nil	Nil	P5	>100			
9.00	10.00	1.00	Nil	Nil	-	-			
10.00	11.00	1.00	Nil	Nil	P6	>100	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.		
11.00	12.00	1.00	Nil	Nil	-	-			
12.00	13.00	1.00	4	Nil	P7	>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**

<b>BOREHOLE NO:</b> 103					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 103		
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1		
<b>DATE OF COMMENCEMENT:</b> 16.06.2010					<b>CO-ORDINATE:</b> X 4567, Y 5534		<b>RL :</b> 559.847m		
<b>DATE OF COMPLETION :</b> 17.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 14.50m		
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		17					
3.00 – 3.45	P	2		38					
4.50 – 4.95	P	3		58					
6.00 – 6.45	P	4		>100					
7.50 – 7.53	P	5		>100					
					7.50	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
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	13.50	1.00	Nil	Nil	-				-
13.50	14.50	1.00	Nil	Nil	P9				>100
						14.50			
Water Level Observation			Remarks – Borehole is terminated at 14.50 m below existing ground level.			SWL	<b>D</b> – Distributed Sample <b>B</b> – Bulk Sample <b>W</b> – Water Sample <b>U</b> – Undistributed Sample <b>P</b> – Standard Penetration Test		
Date	Time	Water Lev. Below GL.							



**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 104					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 104			
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1			
<b>DATE OF COMMENCEMENT:</b> 11.06.2010					<b>CO-ORDINATE:</b> X 4628 Y 5714		<b>RL :</b> 561.115m			
<b>DATE OF COMPLETION :</b> 12.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 13.50m			
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION				
DEPTH (m)	TYPE	NO.								
0.50	D	1		-	0.00	Filled up with weathered rock pieces of various sizes and soil.				
1.50 – 1.95	P	1		15	0.60					
3.00 – 3.45	U	1		-						
4.50 – 4.95	P	2		45						
6.50 – 6.60	P	3		>100 (53 blows for 10 cm penetration)	6.50					
					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.					
DRILLING				INSITU TEST						
FROM	TO	NET RUN	REC. %	RQD. %		TYPE	N VALUE			
6.50	7.50	1.00	Nil	Nil		P4	>100			
7.50	8.50	1.00	Nil	Nil		-	-			
8.50	9.50	1.00	Nil	Nil		P5	>100			
9.50	10.50	1.00	Nil	Nil		-	-			
10.50	11.50	1.00	Nil	Nil		P6	>100			
11.50	12.50	1.00	Nil	Nil		-	-			
12.50	13.50	1.00	Nil	Nil		P7	>100	13.50		
					Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.					
Water Level Observation			Remarks – Borehole is terminated at 13.50 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**

<b>BOREHOLE NO:</b> 210					<b>SITE:</b> NMDC,Nagarnar,Chhattishgarh		<b>BORELOG :</b> 210		
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1		
<b>DATE OF COMMENCEMENT:</b> 15.06.2010					<b>CO-ORDINATE:</b> X 4224, Y 5373		<b>RL :</b> 557.912m		
<b>DATE OF COMPLETION :</b> 16.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH</b> 11.70m		
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION			
DEPTH (m)	TYPE	NO.							
0.30	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					
4.70 – 4.80	P	3		>100 (59 blows for 10 cm penetration)					
					4.70	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
4.70	5.70	1.00	Nil	Nil	P4				>100
5.70	6.70	1.00	Nil	Nil	-				-
6.70	7.70	1.00	Nil	Nil	P5				>100
7.70	8.70	1.00	Nil	Nil	-				-
8.70	9.70	1.00	Nil	Nil	P6				>100
9.70	10.70	1.00	Nil	Nil	-				-
10.70	11.70	1.00	Nil	Nil	P7				>100
					11.70				
Water Level Observation			Remarks – Borehole is terminated at 11.70 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**

<b>BOREHOLE NO:</b> 216					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 216		
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1		
<b>DATE OF COMMENCEMENT:</b> 14.06.2010					<b>CO-ORDINATE:</b> X 4322, Y 5542		<b>RL :</b> 558.951m		
<b>DATE OF COMPLETION :</b> 15.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 12.10m		
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					
3.00 – 3.45	P	2		32					
4.50 – 4.95	P	3		57					
5.10 – 5.20	P	4		>100 (59 blows for 10 cm penetration)					
					5.10	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
5.10	6.10	1.00	Nil	Nil	P5				>100
6.10	7.10	1.00	Nil	Nil	-				-
7.10	8.10	1.00	Nil	Nil	P6				>100
8.10	9.10	1.00	Nil	Nil	-				-
9.10	10.10	1.00	Nil	Nil	P7				>100
10.10	11.10	1.00	Nil	Nil	-				-
11.10	12.10	1.00	Nil	Nil	P8				>100
					12.10				
Water Level Observation			Remarks – Borehole is terminated at 12.10 m below existing ground level.			SWL	<b>D</b> – Distributed Sample <b>B</b> – Bulk Sample <b>W</b> – Water Sample <b>U</b> – Undistributed Sample <b>P</b> – Standard Penetration Test		
Date	Time	Water Lev. Below GL.							





**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 217					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 217	
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1	
<b>DATE OF COMMENCEMENT:</b> 13.06.2010					<b>CO-ORDINATE:</b> X 4374, Y 5469		<b>RL :</b> 560.968m	
<b>DATE OF COMPLETION :</b> 14.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 12.50m	
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 and soil.		
1.50 – 1.95	U	1		-	0.60			
3.00 – 3.45	P	1		25				
4.50 – 4.95	P	2		39				
5.50 – 5.59	P	3		>100 (51 blows for 9 cm penetration)	5.50			
<b>DRILLING</b>					<b>INSITU TEST</b>			
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	
							Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.	
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 12.50 m below existing ground level.		<b>SWL</b>  Not Struck	<b>D –</b> Distributed Sample <b>B –</b> Bulk Sample <b>W –</b> Water Sample <b>U –</b> Undistributed Sample <b>P –</b> Standard Penetration Test
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>						



**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 218					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 218		
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1		
<b>DATE OF COMMENCEMENT:</b> 13.06.2010					<b>CO-ORDINATE:</b> X 4374, Y 5669		<b>RL :</b> 561.007m		
<b>DATE OF COMPLETION :</b> 14.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 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		14					
3.00 – 3.45	U	1		-					
4.50 – 4.95	P	2		38					
5.50 – 5.60	P	3		>100 (54 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
					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**

<b>BOREHOLE NO:</b> 221					<b>SITE:</b> NMDC,Nagarnar,Chhattishgarh		<b>BORELOG :</b> 221	
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1	
<b>DATE OF COMMENCEMENT:</b> 13.06.2010					<b>CO-ORDINATE:</b> X 4712, Y 5715		<b>RL :</b> 561.007m	
<b>DATE OF COMPLETION :</b> 14.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 14.50m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.50	D	1		-	0.00	Filled up with weathered rock pieces of various sizes and soil.		
1.50 – 1.95	U	1		-	0.70			
3.00 – 3.45	P	1		22				
4.50 – 4.95	P	2		39				
6.00 – 6.20	P	3		>100				
7.50 – 7.53	P	4		>100 72lbs for 3cm penetration	7.50			
<b>DRILLING</b>					<b>INSITU TEST</b>			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE		
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	13.50	1.00	Nil	Nil	-	-		
13.50	14.50	1.00	Nil	Nil	P8	>100	14.50	
							Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.	
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 14.50 m below existing ground level.		<b>SWL</b>  Not Struck	<b>D –</b> Distributed Sample <b>B –</b> Bulk Sample <b>W –</b> Water Sample <b>U –</b> Undistributed Sample <b>P –</b> Standard Penetration Test
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>						



**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 222					<b>SITE:</b> NMDC,Nagarnar,Chhattishgarh		<b>BORELOG :</b> 222	
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1	
<b>DATE OF COMMENCEMENT:</b> 12.06.2010					<b>CO-ORDINATE:</b> X 4485, Y 5734		<b>RL :</b> 559.476m	
<b>DATE OF COMPLETION :</b> 13.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 12.50m	
<b>SAMPLE &amp; INSITU TESTS</b>			<b>CASING DEPTH (m)</b>	<b>N VALUE</b>	<b>DEPTH (m)</b>	<b>DESCRIPTION</b>		
<b>DEPTH (m)</b>	<b>TYPE</b>	<b>NO.</b>						
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		21				
3.00 – 3.45	U	1		-				
4.50 – 4.95	P	2		58				
5.50 – 5.60	P	3		>100 (53 blows for 10 cm penetration)	5.50			
<b>DRILLING</b>					<b>INSITU TEST</b>			
<b>FROM</b>	<b>TO</b>	<b>NET RUN</b>	<b>REC. %</b>	<b>RQD. %</b>	<b>TYPE</b>	<b>N VALUE</b>		
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	
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 12.50 m below existing ground level.		<b>SWL</b>  Not Struck	<b>D –</b> Distributed Sample <b>B –</b> Bulk Sample <b>W –</b> Water Sample <b>U –</b> Undistributed Sample <b>P –</b> Standard Penetration Test
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>						



# BORE LOG DATA SHEET

<b>BOREHOLE NO:</b> 223					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 223	
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1	
<b>DATE OF COMMENCEMENT:</b> 13.06.2010					<b>CO-ORDINATE:</b> X 4485, Y 5598		<b>RL :</b> 561.004m	
<b>DATE OF COMPLETION :</b> 14.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 13.50m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.50	D	1		-	0.00	<p>Filled up with weathered rock pieces of various sizes and soil.</p> <p>Very stiff to hard brownish grey / yellowish brown silty clay mixed with moorum, kankars, nodules etc.. Compacted moorum with Rusty brown / black spots &amp; rock fragments observed at lower reaches.</p>		
1.50 – 1.95	P	1		13	0.60			
3.00 – 3.45	U	1		-				
4.50 – 4.95	P	2		47				
5.00 – 5.45	P	3		59				
6.50 – 6.65	P	4		>100 (59 blows for 15 cm penetration)	6.50			
DRILLING					INSITU TEST			
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE		
6.50	7.50	1.00	Nil	Nil	P5	>100		
7.50	8.50	1.00	Nil	Nil	-	-		
8.50	9.50	1.00	Nil	Nil	P6	>100		
9.50	10.50	1.00	Nil	Nil	-	-		
10.50	11.50	1.00	Nil	Nil	P7	>100		
11.50	12.50	1.00	Nil	Nil	-	-		
12.50	13.50	1.00	Nil	Nil	P8	>100		
					13.50			
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 13.50 m below existing ground level.		<b>SWL</b>  Not Struck	<b>D –</b> Distributed Sample <b>B –</b> Bulk Sample <b>W –</b> Water Sample <b>U –</b> Undistributed Sample <b>P –</b> Standard Penetration Test
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>						



**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 243					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 243		
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1		
<b>DATE OF COMMENCEMENT:</b> 13.06.2010					<b>CO-ORDINATE:</b> X 4580, Y 5407		<b>RL :</b> 561.089m		
<b>DATE OF COMPLETION :</b> 14.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 12.50m		
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 and soil.			
1.50 – 1.95	P	1		19	0.80				
3.00 – 3.45	P	2		23					
4.50 – 4.95	P	3		38					
5.50 – 5.60	P	4		>100 (59 blows for 10 cm penetration)	5.50				
<b>DRILLING</b>					<b>INSITU TEST</b>				
FROM	TO	NET RUN	REC. %	RQD. %	TYPE	N VALUE	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.		
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		
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 12.50 m below existing ground level.		<b>SWL</b>	<b>D –</b> Distributed Sample <b>B –</b> Bulk Sample <b>W –</b> Water Sample <b>U –</b> Undistributed Sample <b>P –</b> Standard Penetration Test	
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>							



**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 246					<b>SITE:</b> NMDC,Nagarnar,Chhattishgarh		<b>BORELOG :</b> 246	
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> CHP		<b>SHEET :</b> 1	
<b>DATE OF COMMENCEMENT:</b> 13.06.2010					<b>CO-ORDINATE:</b> X 4710, Y 5411		<b>RL :</b> 561.095m	
<b>DATE OF COMPLETION :</b> 14.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 12.50m	
SAMPLE & INSITU TESTS			CASING DEPTH (m)	N VALUE	DEPTH (m)	DESCRIPTION		
DEPTH (m)	TYPE	NO.						
0.30	D	1		-	0.00	Filled up with weathered rock pieces of various sizes and soil.		
1.50 – 1.95	U	1		-	0.50			
3.00 – 3.45	P	1		27				
4.50 – 4.95	P	2		45				
5.50 – 5.60	P	3		>100 (56 blows for 10 cm penetration)	5.50			
<b>DRILLING</b>					<b>INSITU TEST</b>			
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	
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 12.50 m below existing ground level.		<b>SWL</b>	<b>D –</b> Distributed Sample <b>B –</b> Bulk Sample <b>W –</b> Water Sample <b>U –</b> Undistributed Sample <b>P –</b> Standard Penetration Test
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>						
						Not Struck		



**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 83						<b>SITE:</b> NMDC,Nagarnar,Chhattishgarh		<b>BORELOG :</b> 83	
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling						<b>LOCATION :</b> Sinter Plant		<b>SHEET :</b> 1	
<b>DATE OF COMMENCEMENT:</b> 20.06.2010						<b>CO-ORDINATE:</b> X 4990, Y 5779		<b>RL :</b> 557.437m	
<b>DATE OF COMPLETION :</b> 22.06.2010						<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 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			
<b>DRILLING</b>					<b>INSITU TEST</b>				
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	-	-			
							19.00	Completely to highly weathered, decomposed and disintegrated greyish brown / brownish grey, Shale / Mudstone.	
							25.00	Highly to moderately weathered decomposed gradually becoming fresh whitish grey fine grained shale.	
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 25.00 m below existing ground level.		<b>SWL</b> Not Struck	<b>D</b> – Distributed Sample <b>B</b> – Bulk Sample <b>W</b> – Water Sample <b>U</b> – Undistributed Sample <b>P</b> – Standard Penetration Test	
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>							





**BORE LOG DATA SHEET**

<b>BOREHOLE NO:</b> 196					<b>SITE:</b> NMDC, Nagarnar, Chhattishgarh		<b>BORELOG :</b> 196	
<b>BORING METHOD:</b> Shell and Auger / Rotary Drilling					<b>LOCATION :</b> TF & HSM - CY		<b>SHEET :</b> 1	
<b>DATE OF COMMENCEMENT:</b> 22.06.2010					<b>CO-ORDINATE:</b> X 5091, Y 4229		<b>RL :</b> 561.122m	
<b>DATE OF COMPLETION :</b> 24.06.2010					<b>ORIENTATION :</b> Vertical		<b>DEPTH :</b> 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				
<b>DRILLING</b>					<b>INSITU TEST</b>			
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	
<b>Water Level Observation</b>					<b>Remarks –</b> Borehole is terminated at 24.00 m below existing ground level.		<b>SWL</b>  5.25 metre BGL	<b>D –</b> Distributed Sample <b>B –</b> Bulk Sample <b>W –</b> Water Sample <b>U –</b> Undistributed Sample <b>P –</b> Standard Penetration Test
<b>Date</b>	<b>Time</b>	<b>Water Lev. Below GL.</b>						

