

**KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG**

DRILL HOLE NO. BCT-2
COORDINATES 3043236.078,602823.207,783.891
INCLINATION : VERTICAL
DRILLING MACHINE : TONE U05
DRILLING METHOD : ROTARY

START DATE : 22-06-2002
COMPLETION DATE : 19-07-2002
COLLAR ELEVATION : 783.891
ELEVATION OF HOLE END : 565.98
LOCATION : CONNECTION TUNNEL

Depth m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL m	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
0.00														20	40	60	80	100	
1.00			BROWN COLOR, COLLUVIAL SOIL.																
2.00			BROWN COLOR, COLLUVIAL SOIL.																
3.00																			
4.00			BROWN COLOR, COLLUVIAL SOIL.																
5.00			TOP OF BEDROCK																
6.00			W4,WEAK,GRAY COLOR,THINLY FOLIATED FRACTURED SCHIST <10cm CORES BELOW IT WATER LOSS & CORE LOSS (WEAK ZONE-VOID),CLAY MIXED SAND									40	-						
7.00			W4,WEAK,GRAY COLOR,THINLY FOLIATED FRACTURED SCHIST , <10cm CORES BELOW IT WATER LOSS CORE LOSS.					60° 65°	S,un	10		53	7						
8.00			W4,WEAK,GREENISH GRAY COLOR,THINLY FOLIATED CHLORITE DOMINATED SCHIST BELOW IT WATER LOSS,CORE LOSS					60° 65°	S,un	10		53	6						
9.00																			
10.00			W4,WEAK,GREENISH GRAY COLOR,THINLY FOLIATED,CHLORITE DOMINATED-					60° 65°	S,un	10		73	-						

ABBREVIATION Rough =r, Irregular=ir, Stepped= st, Smooth= s, Slickensided= sl, Undulating= un, Planner= pl, Clay= cl, Sand= sa, Mica= mi, Crumbed= cr, Iron stain=Feo, Fractured zone = f2, Mechanical Breakage= MB, Fresh = W1, Slightly Weathered = W2, Mod. Weathered =W3, Highly Weathered= W4, Decomposed = W5.

DRILLED BY :T. NEUPANE(DRILLING FOREMAN),SRCL

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BORE HOLE LOG**

DRILL HOLE NO. BCT-2
COORDINATES 3043236.078,602823.207,783.891
INCLINATION : VERTICAL
DRILLING MACHINE : TONE UDS
DRILLING METHOD : ROTARY

START DATE : 22-06-2002
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Depth,m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU					
				Blows per 15 cm			WATER LEVEL,m	ALTERATION	ORIENTATION	ROUGHNESS	JOINT /m	REC %	ROD%						PERMEABILITY	LAB TEST	SCREEN PIPE	
				0-15	15-30	30-45																
10.00															20	40	60	80	100			
			-SCHIST CORES <10cm . BELOW TI WATER LOSS,CORE LOSS.								73	-										
11.00																						
			W4,WEAK,GREENISH GRAY,THINLY FOLIATED CHLORITE CONTENT SCHIST BELOW IT WATER LOSS ,CORE LOSS								33	-										
12.00																						
13.00			W2,STRONG,WHITE GRAY COLOR,MASSIVE FINE GRAINED QUARTZITE AND SCHIST WITH QUARTZ VEINS INTO SCHIST BEND.								100	30										
14.00																						
			W3,MEDIUM STRONG,GREENISH GRAY,COLOR THINLY FOLIATEDSCHIST BELOW IT WATER LOSS WEAKZONE VOID(OPEN BET. JOINTS)								26	26										
15.00																						
16.00			W3, MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED, JOINTED QUARTZITIC SCHIST.				NO	CLAY COATING	65' 45' 31'	S,UN ST.	7	100	25									
17.00			16.20-17.45m DARK GRAY COLOR CLAY MIXED SAND, 17.45-17.60 W3,MEDIUM STRONG,FRACTURED QUARTZITIC SCHIST<10 CORE.				NO		-	-	-	11	-									
18.00			17.60 -17.85m GRAY COLOR CLAY MIXED SAND,17.85-18.50 W4,WEAK,GRAY COLOR THINLY FOLIATED QUARTZITIC SCHIST.				NO	CLAY COATING	65'	PL S,UN	4	72	11									
19.00			W4,WEAK,GRAY COLOR,FRACTURED QUARTZITIC SCHIST <10cm CORE.						-	-	-	100	-									
			W3,MEDIUM STRONG,WHITE GRAY COLOR, QUARTZITE				NO		-	-	-	100	40									
			W1,VERY STRONG,WHITE GRAY COLOR,MASSIVE QUARTZITIC.				NO		-	-	-	100	80									
			W1,VERY STRONG,WHITE GRAY COLOR,MASSIVE QUARTZITIC.				NO		-	-	-	100	60									
20.00			W1,VERY STRONG,WHITE GRAY COLOR,MASSIVE QUARTZITIC.				NO		-	-	-	100	31									

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Crusbed= cr, Iron stain=Feo, Fractured zone = f2, Mechanical Breakage= MB, Fresh = W1, Slightly Weathered = W2,Mod. Weathered =W3,
Highly Weathered= W4, Decomposed = W5.

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LOCATION : CONNECTION TUNNEL

Depth,m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU				
				Blows per 15 cm			WATER LEVEL	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	RQD%						PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45															
20.00			W2,STRONG,WHITE GRAY COLOR,MASSIVE QUARTZITE						-	-	-	100	31								
			W2,STRONG,WHITE GRAY COLOR,MASSIVE QUARTZITE				NO					100	43								
21.00			W2,STRONG,GRAY COLOR,MEDIUM GRAINED FOLIATED QUARTZITIC SCHIST.				NO		60° 45°	r S,UN	4	100	60								
22.00			W2,STRONG GRAYCOLOR,MEDIUMGRAINEDQUARTZITE.				NO					100	88								
			22-22.30m W2-3 MEDIUM STRONG GRAY COLOR, QUARTZITE,<10cm CORE. 22.30-22.80m CORE LOSS WATER LOSS,22.80-23.00m W2,STRONG GRAY COLOR, QUARTZITE,<10cm CORE.				NO					50	-								
23.00			W2,STRONG,GRAY COLOR, QUARTZITE.				NO					100	56								
24.00			23.45-24.00m W2,STRONG,GRAY COLOR,MEDIUM GRAINED ,FOLIATED QUARTZITE 24-24.25m CORE LOSS,OPEN/FRACTURED				NO	STARTING CLAY	60° 45° 35°	r 1r	6	67	40								
25.00			24.25-25.00m W2,STRONG,GRAY COLOR,MEDIUM GRAINED FOLIATED FRACTURED QUARTZITIC SCHIST 25.00-25.50m CORELOSS OPEN/COMPETED FRACTURED ZONE				NO	STARTING CLAY	60° 45° 35°	r 1r	6	60	20								
26.00			25.50-26.00 m W1,VERY STRONG,WHITE GRAY COLOR,MASSIVE QUARTZITE,<10cm CORE.				NO	STARTING CLAY	60° 45° 35°	r 1r	4	100	-								
27.00			26.00-26.40m CORE LOS,OPEN/COMPELTLY FRACTURED ZONE,26.40-27.00m W2,STRONG WHITE GRAY,COLOR,FRACTURED QUARTZITE ,<10cm CORE.				NO		60° 45°	r S,UN	4	60	-								
28.00			27.00-27.30m CORELOSS OPEN/COMPELTLY FRACTURED AREA 27.30-27.50 W2 ,STRONG QUARTZITE ,<10cm CORE.				NO		60° 45°	r S,UN	4	40	-								
			27.50-28.00m CORELOSS OPEN/COMPELTLY FRACTURED ZONE																		
			28.00-28.30m CORE LOSS 28.30-28.50m W2 ,STRONG,QUARTZITE.				NO					40	-								
29.00			28.50-29.20m CORE LOSS OPEN/COMPELTLY FRACTURED ZONE, BELOW IT 29.20-30.00 m W2-3,STRONG-MEDIUM STRONG,WHITE GRAY COLOR, LAMINATED MEDIUM GRAINED FRACTURED QUARTZITE ,<10cm CORE.				NO	STARTING CLAY	60° 45° 35°	r S,UN	6	50	-								
30.00																					

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LOCATION : CONNECTION TUNNEL

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				Blows per 15 cm			WATER LEVEL	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
30.00			30-30.70m CORE LOSS (OPEN/COMPLETELY FRACTURED ZONE). BELOW IT 30.70-31.00m W2-3 MEDIUM HARD,WHITE GRAY COLOR, FRACTURED QUARTZITE, <10cm CORE.				NO					30	-	20	40	60	80	100	
31.00			31-31.70m CORE LOSS,OPEN/COMPLETELY FRACTURED ZONE BELOW IT 31.70-32.00m W3-4,WEAK,WHITE GRAY COLOR,MEDIUM GRAINED FRACTURED QUARTZITE, <10cm CORE.				NO					30	-						
32.00			32-32.50m CORE LOSS OPEN/COMPLETELY FRACTURED AREA,32.50-32.75 W3-W4 ,WEAK, QUARTZITIC SCHIST.				NO	STAINING	60° 45'	tr r	4	33	13						
33.00			W3-W4 MED. STRONG TO WEAK,GRAY COLOR, QUARTZITIC SCHIST.				NO	STAINING	60° 45'	tr r	4	100	20						
34.00			W2-3,MEDIUM STRONG,GRAY COLOR,MEDIUM GRAINED LAMINATED QUARTZITIC SCHIST.				NO	STAINING CL FILLING	60° 45' 32'	tr r SUN	7	100	27						
35.00			W4-W5 WEAK-VERY WEAK,FRACTURED QUARTZITIC SCHIST.				NO					100							
36.00			34.55-35.00m CORE LOSS OPEN/COMPLETELY FRACTURED AREA 35.00-35.75m W3,MEDIUM STRONG,DARK GREENISH GRAY COLOR MEDIUM GRAINED LAMINATED FRACTURED QUARTZITIC SCHIST				NO	STAINING CL FILLING	60° 45' 32'	tr r SUN	6	63	-						
37.00			35.75-36.00m W4,WEAK,DARK GREENISH GRAY COLOR FRACTURED QUARTZITIC SCHIST 36.00-37.25 W3-4 WEAK,WHITE GRAY COLOR QUARTZITE AND SCHIST.				NO	CL FILLING	60° 45' 32'	tr r SUN	6	100	40						
38.00			37.25-38.00m CORE LOSS OPEN/COMPLETELY FRACTURED 38.00-38.75m W4,WEAK,GRAY COLOR LAMINATED QUARTZITIC SCHIST.				NO	CL FILLING	60° 50' 35'	tr r PL	7	50	17						
39.00			W4-5,WEAK,GRAY COLOR, MEDIUM GRAINED LAMINATED QUARTZITIC SCHIST.				NO	CL FILLING	60° 45' 35'	tr r PL	7	100	38						
40.00			END OF HOLE																

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DRILLED BY :T. NEUPANE(DRILLING FOREMAN),SRCL

KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG

DRILL HOLE NO. BMT-1

COORDINATES 3043513.605,603073.607,706.902

INCLINATION : VERTICAL

DRILLING MACHINE : TONE-UD5

DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002

COMPLETION DATE : 1 JUNE 2002

COLLAR ELEVATION : 706.902

ELEVATION OF HOLE END : 626.902

LOCATION : CONNECTION TUNNEL

Depth m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
0.00														20	40	60	80	100	
1.00			BROWN COLOR, LOOSE COLLUMAL SOIL WITH ABOUT 25% PIECES OF ROCK FRAGMENTS (SCHIST)				NO	-	-	-	-	-	-	-	-	-	-	-	
2.00			TOP OF BEDROCK																
3.00			W3-W4,MEDIUM STRONG-WEAK, GREENISH GRAY COLOR, THINLY FOLIATED AND PARTIALLY FRACTURED SCHIST.					CLAY COATING ALTERED	60°										
4.00									70°	S _{un}	15	100	15						
5.00			W3,MEDIUM STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST					CL COATING ALTERED											
6.00									60°-70°	S _{un}	15	100	15						
7.00			W3,MEDIUM, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST				2.00		60°-70°	S _{un}	9	100	18						
8.00			DARK GARY COLOR, CLAY MIXED SAND					CLAY COATING ALTERED											
9.00																			
10.00			W3 ,MEDIUM STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST					C/COATING	60°-70°	S _{un}	9	100	32						

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DRILLED BY : B. NEUPANE. NEUPANE(DRILLING FOREMAN),SRCL

KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG

DRILL HOLE NO. BMT-1
COORDINATES 3043513.605,603073.607,706.902
INCLINATION : VERTICAL
DRILLING MACHINE : TONE-UDS
DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002
COMPLETION DATE : 1 JUNE 2002
COLLAR ELEVATION : 706.902
ELEVATION OF HOLE END : 626.902
LOCATION : CONNECTION TUNNEL

Depth m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL m	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	RQD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
10.00														20	40	60	80	100	
			W1-2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST, SOME JOINT ALONG FOLIATION					CL COATING	60°-65°	S,un	7	100	21						
11.00																			
			W1-2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST, SOME JOINT ALONG FOLIATION					CL COATING	60°-65°	S,un	10	100	32						
12.00							6.00												
			W1-2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST, JOINTS COMMONLY ALONG FOLIATION					CL COATING	60°-65°	S,un	10	100	45						
13.00																			
14.00																			
			W1-2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST, JOINTS COMMONLY ALONG FOLIATION.					CL COATING	60°-65°	S,un	8	100	42						
15.00																			
			W1-2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST, JOINTS COMMONLY ALONG FOLIATION.					CL COATING	60°-65°	S,un	7	100	49						
16.00																			
17.00																			
			17.00-18.00m DARK GRAY COLOR CLAY MIXED SAND(GAUGE) BELOW IT W4 WEAK, GREENISH GRAY SCHIST					-	-	-	-	33	20						
18.00							2.00												
			W4, WEAK, GREENISH GRAY, THINLY FOLIATED SCHIST BELOW IT DARK GRAY COLOR CLAY MIXED SAND GAUGE					-	-	-	-	52	22						
19.00																			
			W2, STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.					-	-	-	-	100	50						
20.00																			

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DRILLED BY : B. NEUPANE. NEUPANE(DRILLING FOREMAN), SRCL

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BORE HOLE LOG

DRILL HOLE NO. BMT-1
COORDINATES 3043513.605,603073.607,706.902
INCLINATION : VERTICAL
DRILLING MACHINE : TONE-UD5
DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002
COMPLETION DATE : 1 JUNE 2002
COLLAR ELEVATION : 706.902
ELEVATION OF HOLE END : 626.902
LOCATION : CONNECTION TUNNEL

Depth m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL m	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
20.00														20	40	60	80	100	
			W4,WEAK, GREENISH GRAY, THINLY FOLIATED SCHIST.BELOW IT ABOUT 25cm THICK CLAY MIXED SAND					CL COATING	60°-65°	S,un	4	71	20						
21.00			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST.					CL COATING	60°-68°	S,un	2	100	30						
22.00			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST. BELOW IT ABOUT 50cm THICK CLAY MIXED SAND GAUGE (SHEAR ZONE)					CL COATING	60°-68°	S,un	7	67	35						
23.00			W2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST.					CL COATING	60°-68°	S,un	7	100	35						
24.00			W2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST. BELOW IT 15cm THICK CLAY MIXED SAND				2.00	CL COATING	60°-68°	S,un	7	77	40						
25.00			W2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST.					CL COATING	60°-68°	S,un	7	100	35						
26.00			W2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST.					CL COATING	60°-68°	S,un	10	100	25						
27.00			W3,MEDIUM STRONG, GREENISH GRAY,COLOR, THINLY FOLIATED SCHIST,BELOW IT ABOUT 25cm THICK CLAY MIXED SAND (SHEAR PLANE)					CL COATING	60°-68°	S,un	10	83	30						
28.00			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST.					CL COATING	60°-68°	S,un	10	100	35						
29.00			W2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST.					CL COATING	60°-68°	S,un	10	100	32						
30.00																			

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DRILLED BY : B. NEUPANET. NEUPANE(DRILLING FOREMAN),SRCL

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BORE HOLE LOG

DRILL HOLE NO. BMT-1
COORDINATES 3043513.605,603073.607,706.902
INCLINATION : VERTICAL
DRILLING MACHINE : TONE-UD5
DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002
COMPLETION DATE : 1 JUNE 2002
COLLAR ELEVATION : 706.902
ELEVATION OF HOLE END : 626.902
LOCATION : CONNECTION TUNNEL

Depth.m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES						CORE RECOVERY RQD %					LU							
				Blows per 15 cm			WATER LEVELm	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%						PERMEABILITY	LAB TEST	SCREEN PIPE				
				0-15	15-30	30-45																			
30.00				0-15	15-30	30-45										20	40	60	80	100					
			W1,VERY STRONG,DARK GRAY, THINLY FALIATED QUARTAZITC SCHIST					STAINING	60° 65°	Ir	5	100	25												
31.00			W2, STRONG,DARK GREENGRAY COLOR, THINLY FALIATED QUARTAZITC SCHIST. BELOW IT 25cm THICK GOUGE.					STAINING	65°	Ir	5	67	25												
32.00			75cm. THICK CLAY MIXED SAND(WEAK ZONE/SHEARE ZONE).BELOW IT W2,STRONG, GREENISH GRAY, THINLY FOLIATED SCHIST.					CLAY COATING	60° 65°	Ir	10	50	15												
33.00																									
			100cm. THICK GRAY COLOR CLAY MIXED SAND (WEAK ZONE) BELOW IT W2,STRONG SCHIST. <10cm.CORE					-	-	-	-	20	-												
34.00																									
			W2,STRONG,DARK GREENISH GRAY COLOR THINLY FOLIATED SCHIST,					CLAY COATING ALTERED	60° 65°	Ir	10	20	15												
35.00																									
			85cm. THICK GAUGE CLAY MIXED SAND, (WEAK ZONE).BELOW IT W3, GREENISH GRAY COLOR SCHIST.					CLAY COATING ALTERED	60° 65°	Ir	10	17	11												
36.00																									
			W3,MEDIUM STRONG,DARK GREENISH GARY COLOR ,THINLY FOLIATED SCHIST. BELOW IT 100cm THICK DARK GRAY COLOR CLAY MIXED SAND(WEAK ZONE)					CLAY COATING ALTERED	60° 65°	Ir	10	33	15												
37.00																									
38.00			DARK GARY COLOR, CLAY MIXED SAND (WEAK ZONE) 37.75-38.75m CORE LOSS					-	-	-	-	-	-												
39.00																									
			W3,MEDIUM STRONG,DARK GREENISH GRAY, THINLY FOLIATED,FRACTURED SCHIST. BELOW IT 75cm. THICK GAUGE.					-	-	-	-	50	-												
40.00																									











ABBREVIATION Rough =r, Irregular=ir, Stepped= st, Smooth= s, Slickensided= sl, Undulating= un, Planner= pl, Clay= cl, Sand= sa, Mica= mi, Crusbed= cr, Iron stain=Feo, Fractured zone = f2, Mechanical Breakage= MB, Fresh = W1, Slightly Weathered = W2,Mod. Weathered =W3, Highly Weathered= W4, Decomposed = W5.

DRILLED BY :B. NEUPANET. NEUPANE(DRILLING FOREMAN),SRCL

KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG

DRILL HOLE NO. BMT-1
COORDINATES 3043513.605,603073.607,706.902
INCLINATION : VERTICAL
DRILLING MACHINE : TONE-UD5
DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002
COMPLETION DATE : 1 JUNE 2002
COLLAR ELEVATION : 706.902
ELEVATION OF HOLE END : 626.902
LOCATION : CONNECTION TUNNEL

Depth,m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU					
				Blows per 15 cm			WATER LEVEL	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	RQD%						PERMEABILITY	LAB TEST	SCREEN PIPE	
				0-15	15-30	30-45																
40.00															20	40	60	80	100			
			W4,WEAK, GREENISH GRAY THINLY FILIATED FRACTURED SCHIST. BELOW IT 50cm. THICK GAUGE.					-	-	-	-	50	-									
41.00								-	-	-	-	30	-									
			70cm. THICK GAUGE (WEAK ZONE) BELOW IT W2,STRONG, GREENISH GRAY FRACTURED SCHIST.																			
42.00																						
			DARK GRAY COLOR ,CLAY MIXED SAND (WEAK ZONE/SHEAR ZONE)							-	-	-	-									
43.00								-	-	-	-	100										
			W4,WEAK, GREENISH GRAY, THINLY FOLIATED FRACTUTED SCHIST. <10cm CORES.																			
44.00										-	-	-	-									
			DARK GRAY COLOR CLAY MIXED SAND GAUGE(WEAK ZONE).				8.00															
45.00								CLAY COATING	60° 65°	S,un	7	79	20									
			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED CHLORITE DOMINATED SCHIST. BELOW IT 25cm THICK, CLAY MIXED SAND.																			
46.00								-	-	-	-	100	-									
			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED FRACTURED, CHLORITE CONTENT SCHIST ,<10cm CORE.																			
47.00								CLAY COATING	60° 65°	S,un	8	100	25									
			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED CHLORITE DOMINATED SCHIST.																			
48.00								CLAY COATING	60° 65°	S,un	8	100	35									
			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED CHLORITE DOMINATED SCHIST.																			
49.00																						
			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED CHLORITE DOMINATED SCHIST.																			
50																						

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DRILLED BY : B. NEUPANET. NEUPANE(DRILLING FOREMAN),SRCL

**KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG**

DRILL HOLE NO. BMT-1
COORDINATES 3043513.605,603073.607,706.902
INCLINATION : VERTICAL
DRILLING MACHINE : TONE-UD5
DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002
COMPLETION DATE : 1 JUNE 2002
COLLAR ELEVATION : 706.902
ELEVATION OF HOLE END : 626.902
LOCATION : CONNECTION TUNNEL

Depth.m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
50.00			W4,WEAK, GREENISH GRAY COLOR THINLY FILIATED FRACTURED SCHIST.<10cm CORE. BELOW IT 50cm. THICK SAND GAUGE					-	-	-	-	56	-	20	40	60	80	100	
51.00			W4,WEAK, GREENISH GRAY COLOR, SCHIST					-	-	-	-	100	40						
52.00			75cm. THICK DARK GRAY COLOR ,CLAY MIXED SAND (WEAK ZONE) BELOW IT W4,WEAK, GREENISH GRAY COLOR SCHIST.					CLAY COATING	60° 65°	S,un	8	53	39						
53.00																			
54.00			30cm. THICK DARK GRAY COLOR CLAY MIXED SAND(SHEAR PLANE) BELOW IT W3,MEDIUM STRONG, GREENISH GRAY COLOR SCHIST.					CLAY COATING	60° 65°	S,un	8	80	21						
55.00																			
56.00			W3,MEDIUM STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.				E.2.00 W.6.00	CLAY COATING	60° 65°	S,UN	8	100	40						
57.00			W3,MEDIUM STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.					CLAY COATING	60° 65°	S,un	8	100	36						
58.00			W3,MEDIUM STRONG, GREENISH GRAY COLOR THINLY FOLIATED SCHIST.					CLAY COATING	60° 65°	S,un	8	100	30						
59.00			W3,MEDIUM STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.					CLAY COATING	60° 65°	S,un	8	100	35						
60.00			W3,MEDIUM STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.						60° 65°	S,un	8	100	45						

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DRILLED BY :B. NEUPANET. NEUPANE(DRILLING FOREMAN),SRCL

KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG

DRILL HOLE NO. BMT-1
COORDINATES 3043513.605,603073.607,706.902
INCLINATION : VERTICAL
DRILLING MACHINE : TONE-UD5
DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002
COMPLETION DATE : 1 JUNE 2002
COLLAR ELEVATION : 706.902
ELEVATION OF HOLE END : 626.902
LOCATION : CONNECTION TUNNEL

Depth.m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DISCONTINUITIES					CORE RECOVERY					LU					
				Blows per 15 cm			WATER LEVELm	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%					PERMEABILITY	LAB TEST	SCREEN PIPE		
				0-15	15-30	30-45																
60.00			W3,MEDIUM STRONG, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.					CL	60° 65°	S,un	8	100	45		20	40	60	80	100			
			W4,WEAK, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST .					STAINING	60° 65°	S,un	8	100	25									
61.00																						
			W4,WEAK, GREENISH GRAY, THINLY FOLIATED SCHIST. BELOW IT ABOUT 40cm THICK GAUGE.					CLAY COATING	60° 65°	S,un	8	75	10									
62.00																						
			W4,WEAK, GREENISH GRAY, THINLY FOLIATED SCHIST, <10cm CORE. BELOW IT 30cm THICK GAUGE.					-	-	-	-	75	-									
63.00																						
			W4,WEAK, GREENISH GRAY, THINLY FOLIATED FRACTURED SCHIST, <10cm CORE. BETWEEN IT 45cm THICK GAUGE.					-	-	-	-	63	-									
64.00																						
			30cm THICK GAUGE, BELOW IT W4, FRACTURED SCHIST, <10cm CORE					-	-	-	-	33	-									
65.00																						
			W4,WEAK, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST. BETWEEN IT 30cm THICK GAUGE.					CLAY COATING	60° 65°	S,un	9	80	30									
66.00																						
			W4,WEAK, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.					CLAY COATING	60° 65°	S,un	9	100	32									
67.00																						
			W4,WEAK, GREENISH GRAY COLOR, THINLY FOLIATED SCHIST.					CLAY COATING	60° 65°	S,un	9	100	32									
68.00																						
69.00																						
70.00																						

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DRILLED BY :B. NEUPANET. NEUPANE(DRILLING FOREMAN),SRCL

KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG

DRILL HOLE NO. BMT-1
COORDINATES 3043513.605,603073.607,706.902
INCLINATION : VERTICAL
DRILLING MACHINE : TONE-UDS
DRILLING METHOD : ROTARY

START DATE : 28 MAY 2002
COMPLETION DATE : 1 JUNE 2002
COLLAR ELEVATION : 706.902
ELEVATION OF HOLE END : 626.902
LOCATION : CONNECTION TUNNEL

Depth m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL m	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
70.00			W4,WEAK, GREENISH GRAY, THINLY FOLIATED SCHIST.					CL	60° 67°	S,un	9	100	32						
71.00			W3,MEDIUM STRONG, GREENISH GRAY, THINLY FOLIATED PARTIAL FRACTURED SCHIST. BELOW IT 50cm THICK GAUGE.				6.00	CLAY COATING	61° 67°	S,un	7	67	25						
72.00			W4,WEAK, GREENISH GRAY, THINLY FOLIATED FRACTURED SCHIST. BETWEEN IT DARK GRAY COLOR CLAY MIXED SAND (WEAK PLANE)					CLAY COATING	61° 67°	S,un	7	50	-						
73.00			W4,WEAK, GREENISH GRAY, THINLY FOLIATED FRACTURED SCHIST. BELOW IT DARK GRAY COLOR CLAY MIXED SAND (WEAK ZONE)					CLAY COATING	61° 67°	S,un	7	47	-						
74.00			W4,WEAK, GREENISH GRAY, THINLY FOLIATED FRACTURED SCHIST. BELOW IT DARK GRAY COLOR CLAY MIXED SAND (WEAK ZONE)					CLAY COATING	61° 67°	S,un	7	47	-						
75.00			85cm THICK DARK GRAY COLOR CLAY MIXED SAND (WEAK ZONE) BELOW IT W1, VERY STRONG, DARK GRAY COLOR MASSIVE QUARTZITIC SCHIST				6.00	W1	55°	ir	3	43	43						
76.00			W1, VERY STRONG, DARK GRAY COLOR, MASSIVE, QUARTZITIC SCHIST. BELOW THIS 35cm THICK CLAY MIXED SAND (SHEAR PLANE).					CLAY COATING	60° 55°	ir	3	77	43						
77.00			W3,MEDIUM STRONG, DARK GREENISH GRAY, THINLY FRACTURED CHLONITE DOMINATED QUARTZITIC SCHIST, BETWEEN IT 35cm THICK GAUGE (SHEAR PLANE).					CLAY COATING	65°	S,un	11	67	10						
78.00			W3,MEDIUM STRONG, DARK GREENISH GRAY, THINLY FOLIATED CHLORITE MICA CONTENT QUARTZITIC SCHIST. BETWEEN IT CLAY MIXED SAND GAUGE (WEAK ZONE/SHEAR PLANE)						65°	S,un	5	31	-						
79.00			END OF HOLE																
80.00																			

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DRILLED BY :B. NEUPANET. NEUPANE(DRILLING FOREMAN),SRCL

**KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG**

DRILL HOLE NO. BPV-1
COORDINATES 3040702,412,602587.308,577.596
INCLINATION : VERTICAL
DRILLING MACHINE : TONE UD-5
DRILLING METHOD : ROTARY

START DATE : 2 JUNE 2002
COMPLETION DATE : 13 JULY 2002
COLLAR ELEVATION : 577.596
ELEVATION OF HOLE END : 465.596
LOCATION : POWERHOUSE

Depth.m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU					
				Blows per 15 cm			WATER LEVELm	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	RQD%				PERMEABILITY	LAB TEST	SCREEN PIPE			
				0-15	15-30	30-45																
10.00				0-15	15-30	30-45									20	40	60	80	100			
			W3,MEDIUM STRONG,GRAY,COLOR,FINE GRAINED, CHLORITE CONTENT,DOLOMITE,BELOW IT,ABOUT 75cm. THICK W5,COMPLETELY WEATHERED LOOSE ROCK				FLOW	CALCITE COATING	65°	r,s	2	62	56									
11.00																						
			W4,WEAK,MICA AND CHLORITE DOMINATED THINLY FOLIATED,FRACTURED DOLOMITE,BELOW IT ABOUT 85cm.THICK W5,VERY WEAK,LOOSE ROCK				FLOW	-	-	-	-	50	-									
12.00																						
			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW	-	-	-	-	100	55									
13.00																						
			W3,MED.STRONG,GRAY COLOR,THINLY FOLIATED SILICIOUS DOLOMITE.				FLOW		70°	r	2	100	90									
14.00																						
			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,SILICIOUS DOLOMITE				FLOW		70°	r	2	100	92									
15.00																						
			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,SILICIOUS DOLOMITE				FLOW		70°	r	2	100	90									
16.00																						
			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,SILICIOUS DOLOMITE				FLOW	CALCITE COATING	70° 45°	r	3	100	62									
17.00																						
			W2,VERY STRONG,GRAY COLOR,FINE GRAINED, THINLY FOLIATED,SILICIOUS DOLOMITE				FLOW	CALCITE COATING	70°	r	2	100	90									
18.00																						
			W2, STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,SILICIOUS DOLOMITE				FLOW	CALCITE COATING	65°	r	3	100	80									
19.00																						
			W2, STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW	CALCITE COATING	60° 70°	r	8	100	65									
20.00																						

(NO WATER LOSS WAS OBSERVED)

(NO WATER LOSS WAS OBSERVED)

ABBREVIATION Rough =r, Irregular=ir, Stepped= st, Smooth= s, Slickensided= sl, Undulating= un, Planner= pl, Clay= cl, Sand= sa, Mica= mi, Crushed= cr, Iron stain=Feo, Fractured zone = f2, Mechanical Breakage= MB, Fresh = W1, Slightly Weathered = W2,Mod. Weathered =W3, Highly Weathered= w4, Decomposed = w5.

DRILLED BY :B.B. KARKI/M.B. SHRESTHA/RISHI ADHIKARI(DRILLING SUPARVISOR/FOREMAN),SRCL

**KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG**

DRILL HOLE NO. BPV-1
COORDINATES 3040702.412,602587.308,577.596
INCLINATION : VERTICAL
DRILLING MACHINE : TONE UD-5
DRILLING METHOD : ROTARY

START DATE : 2 JUNE 2002
COMPLETION DATE : 13 JULY 2002
COLLAR ELEVATION :577.596
ELEVATION OF HOLE END : 465.596
LOCATION : POWERHOUSE

Depth,m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL,m	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
20.00														20	40	60	80	100	
			W2,STRONG,GRAY,COLOR,FINE GRAINED,THINLY FOLIATED ,SILICIOUS DOLOMITE.				FLOW	-	-	-		100	37						
21.00			ABOUT 45cm. THICK GRAVEL CLAY MIXED SAND AND BELOW IT,W3 ,MED.STRONG,SILICIOUS DOLOMITE				FLOW					100	50						
22.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW					100	50						
23.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW	-	-	-		100	80						
24.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW					100	95						
25.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED SILICIOUS DOLOMITE.				FLOW	-	-	-		100	85						
26.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW	STAINING	70° 60°	r	2	100	80						
27.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,LAMINATED SILICIOUS DOLOMITE.				FLOW	STAINING	70° 60°	r	3	100	96						
28.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,LAMINATED, SILICIOUS DOLOMITE. MICRO DRAGGED FOLDS WITHIN THEM.				FLOW	STAINING	65° 60°	r	3	100	95						
29.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,LAMINATED SILICIOUS DOLOMITE.				FLOW	STAINING	60° 70°	r	4	100	67						
30.00																			

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DRILLED BY :B.B. KARKI/M.B. SHRESTHA/RISHI ADHIKARI(DRILLING SUPARVISOR/FOREMAN),SRCL

**KULEKHANI-III HYDROPOWER PROJECT
BORE HOLE LOG**

DRILL HOLE NO. BPV-1
COORDINATES 3040702.412,602587.308,577.596
INCLINATION : VERTICAL
DRILLING MACHINE : TONE UD-5
DRILLING METHOD : ROTARY

START DATE : 2 JUNE 2002
COMPLETION DATE : 13 JULY 2002
COLLAR ELEVATION :577.596
ELEVATION OF HOLE END : 465.596
LOCATION : POWERHOUSE

Depth m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					LU		
				Blows per 15 cm			WATER LEVEL m	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%				PERMEABILITY	LAB TEST	SCREEN PIPE
				0-15	15-30	30-45													
20.00														20	40	60	80	100	
			W2,STRONG,GRAY,COLOR,FINE GRAINED,THINLY FOLIATED ,SILICIOUS DOLOMITE.				FLOW	-	-	-	-	100	37						
21.00			ABOUT 45cm. THICK GRAVEL CLAY MIXED SAND AND BELOW IT,W3 ,MED.STRONG,SILICIOUS DOLOMITE				FLOW					100	50						
22.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW					100	50						
23.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW	-	-	-	-	100	80						
24.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW					100	95						
25.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED SILICIOUS DOLOMITE.				FLOW	-	-	-	-	100	85						
26.00			W3,MEDIUM STRONG,GRAY COLOR,THINLY FOLIATED,SILICIOUS DOLOMITE.				FLOW	STAINING	70° 60°	r	2	100	80						
27.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,LAMINATED SILICIOUS DOLOMITE.				FLOW	STAINING	70° 60°	r	3	100	95						
28.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,LAMINATED, SILICIOUS DOLOMITE. MICRO DRAGGED FOLDS WITHIN THEM,				FLOW	STAINING	65° 60°	r	3	100	95						
29.00			W2,STRONG,GRAY COLOR,FINE GRAINED,THINLY FOLIATED,LAMINATED SILICIOUS DOLOMITE.				FLOW	STAINING	60° 70°	r	4	100	67						
30.00																			

ABBREVIATION Rough =r, Irregular=ir, Stepped= st, Smooth= s, Slickensided= sl, Undulating= un, Planner= pl, Clay= cl, Sand= sa, Mica= mi, Crusted= cr, Iron stain=Feo, Fractured zone = f2, Mechanical Breakage= MB, Fresh = W1, Slightly Weathered = W2,Mod. Weathered =W3, Highly Weathered= w4, Decomposed = w5.

DRILLED BY :B.B. KARKI/M.B. SHRESTHA/RISHI ADHIKARI(DRILLING SUPARVISOR/FOREMAN),SRCL