

# *Attachment*

## *Appendix B*

KULEKHANI III HYDROPOWER PROJECT  
BORE HOLE LOG

DRILL HOLE NO. BI-2  
COORDINATES 3044030.94, 603736.85, 595.98  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UDS  
DRILLING METHOD : ROTARY

START DATE : 20-04-2002  
COMPLETION DATE : 10-05-2002  
COLLAR ELEVATION : 595.98  
ELEVATION OF HOLE END 565.98  
LOCATION : HEADWORKS

Depth, m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	D C 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															
0.00														20	40	60	80	100			
1.00			ALLUVIAL DEPOSIT COMPOSED OF GRAVELS, PEBBLES AND SAND WITH BOULDER OF MARBLE, SCHIST AND QUARTZITE.	48	50	49						27									
2.00												15									
3.00			ALLUVIAL DEPOSIT WITH WEATHERED ROCK FRAGMENTS AND SANDY GRAVEL.	39	43	45						19									
4.00												100									
5.00			ALLUVIAL DEPOSIT COMPOSED OF BOULDERS OF MARBLE, QUARTZITE AND SCHIST( $\phi$ =30-40cm) WITH GRAVELS, PEBBLES, ROCK FRAGMENTS, AND SANDY SOIL.	47	46	49						71									
6.00												28									
7.00												70									
8.00			TOP OF THE BEDROCK									57									
9.00			W2-W3, LIGHT YELLOW COLORED, WEAK FRACTURED MARBLE ROCK.									100	57								
10.00			W2-W3, LIGHT GRAY COLOR, MEDIUM STRONG, JOINTED MARBLE.									100	40								
												10									
												87	77								
												100	29								
			W2-W3, LIGHT GRAY TO WHITE COLOR, MEDIUM STRONG, JOINTED MARBLE WITH LAMINATIONS.									55	28								

ABBREVIATION Rough =r, Irregular=ir, Stepped= st, Smooth= s, Slickensided= sl, Undulating= un, Planner= pl, Clay= cl, Sand= so, 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. NEUPANE(DRILLING FOREMAN)

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

DRILL HOLE NO. BI-2  
COORDINATES 3044030.94,603736.85,595.98  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UDS  
DRILLING METHOD : ROTARY

START DATE : 20-04-2002  
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COLLAR ELEVATION :595.98  
ELEVATION OF HOLE END 565.98  
LOCATION : HEADWORKS

Depth.m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES					CORE RECOVERY RQD %					U							
				Blows per 15 cm			WATER LEVELm	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%											
				0-15	15-30	30-45																		
10.00																20	40	60	80	100				
												55	28											
			W1,-W2 LIGHT YELLOW COLORED, WEAK, FRACTURED MARBLE.									26												
11.00			CORE LOSS BETWEEN 11.40-11.70m																					
			W2-W3 , FRACTURED, WEAK MARBLE FRAGMENTS AND SANDY GRAVEL									44												
12.00																								
			W2-W3 WEAK, FRACTURED MARBLE CORE LOSS 12.9-13.2m.									39												
13.00	NX																							
			W1,-W2 MEDIUM STRONG MARBLE									85												
14.00																								
			W1-W3, LIGHT GRAY, FRACTURED, LAMINATED MARBLE.									100												
			W2-W3 WEAK, FRACTURED MARBLE									100												
15.00																								
			W2-W3, MEDIUMSTRONG, GRAY MARBLE COLOR MARBLE.									26												
16.00																								
			W2-W3, WEAK FRACTURED MARBLE CORE LOSS 15.6-16.00m									33												
17.00	NW																							
			CRUSHED AND SHEARED SLUDGE SAMPLE COLLECTED. TOTAL CORE LOSS 16.20-17.55m									0												
18.00																								
			W2-W3 FRACTURED MARBLE FRAGMENTS CORELOSS 17.55-18.00 m									52												
												100												
19.00																								
			W2-W3 FRACTURED MARBLE FRAGMENTS																					
			W2-W3,LAMINATED PHYLLITE AND MARBLE									100												
												66	22											
			W2-W3,LAMINATED MARBLE AND PHYLLITE CORE LOSS 19.50-19.85 m									50	7											
20.00																								

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DRILLED BY :B. NEUPANE(DRILLING FOREMAN)

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

DRILL HOLE NO. BI-2  
COORDINATES 3044030.94,603736.85,585.98  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UD5  
DRILLING METHOD : ROTARY

START DATE : 20-04-2002  
COMPLETION DATE : 10-05-2002  
COLLAR ELEVATION :585.98  
ELEVATION OF HOLE END 565.98  
LOCATION : HEADWORKS

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															
20.00														20	40	60	80	100			
			W1-W2 MEDIUM STRONG LAMINATED MARBLE.							r	9	50	7								
			W2-W3 WEAK, FLACTURED MARBLE WITH SCHIST PARTING .							r	12	41									
21.00			CORE LOSS 20.50-21.00 m																		
			W1-W2 , MEDIUM STRONG JOINTED MARBLE							S	12	63	7								
			CORE LOSS 21.35-21.50 m																		
22.00			W1-W2 , MEDIUM STRONGLAMINATED SCHIST							r	15	86									
			CORE LOSS 22.00-22.20 m																		
			W2-W3 MEDIUM STRONG GRAY MARBLE							S	6	100	35								
			MB AT 22.73																		
23.00			W2 LAMINATED MARBLE WITH SCHIST.							S	9	100	0								
			W1 -W2 MEDIUM STRONG GRAY MARBLE							S	9	100	23								
			W2-W3, GRAY COLOR LAMINATED MARBLE							r	8	59	37								
			CORE LOSS 24.15-24.50 m																		
24.00			W1-W2 GRAY COLOR FRACTURED MARBLE							r	10	100	-								
			W1-W2 MEDIUM STRONG MARBLE							r	9	100	33								
25.00			W2-W3 WEAK FRACTURED MARBLE							S	10	40	0								
			CORE LOSS 25.80-26.00 m																		
26.00			W1,W2, WEAK FRACTURED MARBLE							S	8	73	13								
			CORE LOSS 26.50-26.70 m																		
27.00	NW		W2,W3 MEDIUM STRONG MARBLE WITH LAMINATIONS.							r	9	100	37								
28.00			W1-W2 WEAK, LAMINATED GRAY TO BROWNISH CLOR MARBLE WITH SCHIST							r	7	69	38								
			CORE LOSS 28.30-28.65 m																		
29.00			W1-W2 MEDIUM STRONG GRAY COLOR MARBLE WITH IRREGULAR JOINTS/ SOME LAMINATED SAMPLES.							S	6	100	52								
30.00																					

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DRILLED BY :B. NEUPANE(DRILLING FOREMAN)

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

DRILL HOLE NO. BA-1  
COORDINATES 3040012,603174.55,493.932  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UDS  
DRILLING METHOD : ROTARY

START DATE : 18 Aug,2002  
COMPLETION DATE : Sep.2,2002  
COLLAR ELEVATION :493.932  
ELEVATION OF HOLE END :463.932  
LOCATION : BRIDGE

Depth.m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	D C 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													
0.00														20	40	60	80	100	
			0.00-0.50m POORLY GRADED GRAVELLY SAND WITH SOME BOULDERS OF GREENISH AND DOLOMITE 0.50-1.00m CORE LOSS.					-	-	-	-	50	-						
1.00																			
				30	30	32													
2.00			1.00-1.50m CORE LOSS BELOW IT POORLY GRADED SILTY SAND					-	-	-	-	67	-						
			CORE LOSS					-	-	-	-	-	-						
3.00																			
			3.10-3.60m CORE LOSS BELOW IT GRAVELLY SAND.	31	28	35		-	-	-	-	45	-						
4.00																			
			4.00-4.75m CORE LOSS BELOW IT FRESH STRONG BOULDER OF SILICIOUS DOLOMITE PLUS MIXED OF SILTY SAND.					-	-	-	-	38	17						
5.00																			
			5.20-5.40m SILTY SAND BELOW IT POORLY GRADED COARSE GRAVEL.	36	33	37		-	-	-	-	100	-						
6.00																			
			6.50-7.55m BROWN COLOR CLAY SILT MIXED SAND BELOW IT FRESH STRONG BOULDER OF DOLOMITE.					-	-	-	-	100	13						
7.00																			
8.00			BROWN COLOR GRAVEL,SILT CLAY MIXED SAND.																
8.00								-	-	-	-	100	-						
				41	45	44													
			BROWN COLOR GRAVEL,SILT CLAY MIXED SAND.					-	-	-	-	100	-						
10.00																			

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

**KULEKHANI III HYDROPOWER PROJECT  
BORE HOLE LOG**

DRILL HOLE NO: BA-1  
COORDINATES: 3040012,603174.55,493.932  
INCLINATION: VERTICAL  
DRILLING MACHINE: TONE-UDS  
DRILLING METHOD: ROTARY

START DATE: 18 Aug,2002  
COMPLETION DATE: Sep.2,2002  
COLLAR ELEVATION: 493.932  
ELEVATION OF HOLE END: 463.932  
LOCATION: BRIDGE

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%								
				0-15	15-30	30-45															
10.00														20	40	60	80	100			
			10.00-10.60m BROWN COLOR CLAY SILT MIXED SAND BELOW IT COARSE GRAVEL					-	-	-	-	100	-								
11.00			10.65-11.25m SILTY SAND BELOW IT FRESH BOULDERS OF LIMESTONE.					-	-	-	-	100	-								
12.00			FRESH BOULDERS OF LIMESTONE AND COARSE GRAVEL.					-	-	-	-	100	-								
13.00			12.50-12.95m FRESH BOULDERS OF LIMESTONE BELOW IT GRAVELLY SAND.					-	-	-	-	100	17								
14.00			GRAVELLY SAND.					-	-	-	-	100	-								
15.00			POORLY GRADED CLAY SILT MIXED SAND	48	47	49		-	-	-	-	100	-								
16.00			ABOUT 25% BOULDERS OF LIMESTONE THEN BROWN COLOR ABOUT 10% GRAVEL MIXED SAND					-	-	-	-	100	17								
17.00			17.00-17.50m BROWN COLOR GRAVELLY SAND THEN BOULDERS OF LIMESTONE.					-	-	-	-	100	32								
18.00			BROWN COLOR CLAY SILT MIXED POORLY GRADED SAND	46	40	37		-	-	-	-	100	-								
19.00			BROWN COLOR CLAY SILT MIXED POORLY GRADED SAND					-	-	-	-	100	-								
20.00																					

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DRILLED BY :B. NEUPANE/R. ADHIKARI (DRILLING FOREMAN)SRCL

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**BORE HOLE LOG**

DRILL HOLE NO. BA-1  
COORDINATES 3040012,603174.55,493.932  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UD5  
DRILLING METHOD : ROTARY

START DATE : 18 Aug,2002  
COMPLETION DATE : Sep.2,2002  
COLLAR ELEVATION :493.932  
ELEVATION OF HOLE END :463.932  
LOCATION : BRIDGE

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%								
				0-15	15-30	30-45															
20.00														20	40	60	80	100			
			BROWN COLOR CLAY SILTY MIXED SAND					-	-	-	-	100	-								
			GRAY COLOR COARSE SANDY GRAVEL					-	-	-	-	100	-								
21.00																					
			W2-W3 MEDIUM STRONG DARK GRAY COLOR THINLY FOLIATED PHYLLITE(BED ROCK).					-	-	-	-	100	13								
22.00																					
			W2-W3 MEDIUM STRONG DARK GRAY COLOR THINLY FOLIATED PHYLLITE(BED ROCK).					-	-	-	-	100	-								
23.00																					
			GRAY COLOR WELL GRADED GRAVELLY SAND MIXED OF SOME BOULDER OF PHYLLITE.					-	-	-	-	100	-								
24.00																					
			24.24-40m GRAY COLOR GRAVELLY SAND BELOW IT W3, MED STRONG FRACTURED PHYLLITE <10cm CORE.					-	-	-	-	100	-								
25.00																					
			GRAY COLOR GRAVELLY SAND.					-	-	-	-	100	-								
			W1-W2 STRONG DARK GRAY COLOR THINLY FOLIATED PHYLLITE.					-	-	-	-	100	68								
26.00																					
			W1-W2 STRONG DARK GRAY COLOR THINLY FOLIATED PHYLLITE.					-	-	-	-	100	70								
27.00																					
			W1-W2 STRONG DARK GRAY COLOR THINLY FOLIATED PHYLLITE.					-	-	-	-	100	55								
			27.10-27.40m,SAND THEN W3 FRACTURED PHYLLITE <10cm CORE.					-	-	-	-	100	-								
			27.50-27.75m W3 PHYLLITE THEN																		
28.00								-	-	-	-	100	22								
			27.75-28.00m GRAY COLOR SAND BELOW IT, W1 STRONG PHYLLITE.																		
			28.00-28.70m GRAY COLOR SAND BELOW IT FRESH BOULDER OF LIMESTONE. DOLOMITE <10cm CORE.					-	-	-	-	100	29								
29.00																					
			FRESH BOULDERS OF QUARTZITE SCHIST,(29.15-30.10m)					-	-	-	-	100	34								
30.00																					

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DRILLED BY :B. NEUPANE/R. ADHIKARI (DRILLING FOREMAN)SRCL

**KULEKHANI III HYDROPOWER PROJECT  
BORE HOLE LOG**

DRILL HOLE NO. BA-2  
COORDINATES: 3039976.250, 603004.973, 510.664  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE  
DRILLING METHOD : ROTARY

START DATE : Aug.16,2002  
COMPLETION DATE : 21Aug. 2,2002  
COLLAR ELEVATION : 510.664  
ELEVATION HOLE OF END : 480.664  
LOCATION : BRIDGE

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%								
				0-15	15-30	30-45															
0.00														20	40	60	80	100			
			BROWN COLOR RESIDUAL SOIL					-	-	-	-	100	-								
1.00			1.00-1.60m CORE LOSS BELOW THIS BROWN COLOR RESIDUAL SOIL																		
2.00				30	30	31		-	-	-	-	100	-								
3.00			CLAY AND SILT DOMINANT BROWN COLOR SAND ABOUT 5% GRAVEL MIXED IN SOIL					-	-	-	-	100	-								
4.00																					
5.00			CLAY AND SILT DOMINANT BROWN COLOR SAND ABOUT 5% GRAVEL MIXED IN SOIL	35	35	36		-	-	-	-	100	-								
6.00			CLAY AND SILT DOMINANT BROWN COLOR SAND ABOUT 1-5% GRAVEL MIXED IN SOIL					-	-	-	-	100	-								
7.00			CLAY SILTY SAND					-	-	-	-	100	-								
8.00			CLAY AND SILT DOMINANT GRAVELLY SAND.	44	43	33		-	-	-	-	100	-								
9.00			CLAY AND SILT DOMINANT GRAVELLY SAND.					-	-	-	-	100	-								
10.00																					

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DRILLED BY : BISHNU KC/R. ADHIKARI(DRILLING SUPER VISOR/FOREMAN),SRCL



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**BORE HOLE LOG**

DRILL HOLE NO. BA-2  
COORDINATES 3038976.250, 603004.973, 510.664  
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LOCATION : BRIDGE

Depth.m	Casing size	Core Log	DESCRIPTION OF ROCK /SOIL	S P T			DESCRIPTION OF DISCONTINUITIES						CORE RECOVERY RQD %					CORRELATION					PERMEABILITY	LAB TEST	SCREEN PIPE
				Blows per 15 cm			WATER LEVELm	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%												
				0-15	15-30	30-45																			
10.00				0-15	15-30	30-45											20	40	60	80	100				
			ABOUT 50% BOULDER AND GRAVEL DOMINET SAND.	33	38	38		-	-	-	-	100	-												
11.00			BOULDER MIXED BROWN COLOR GRAVELLY SAND.																						
12.00			GRAY COLOR GRAVEL SILTY SAND.	26	26	28		-	-	-	-	100	-												
13.00																									
14.00			GRAY COLOR GRAVEL SILTY SAND.	31	30	31		-	-	-	-	100	-												
15.00			BROWNISH-GRAY COLOR SILTY SAND PLUS AROUND 5% GRAVELS OF PHYLLITE.					-	-	-	-	100	-												
16.00								-	-	-	-	100	-												
17.00			BROWNISH-GRAY COLOR SILTY SAND PLUS AROUND 5% GRAVELS OF PHYLLITE.					-	-	-	-	100	-												
18.00			BROWNISH-GRAY COLOR SILTY SAND PLUS AROUND 5% GRAVELS OF PHYLLITE.					-	-	-	-	100	-												
19.00																									
20.00			BROWNISH-GRAY COLOR SILTY SAND PLUS AROUND 5% GRAVELS OF PHYLLITE.					-	-	-	-	100	-												

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DRILLED BY : BISHNU KC/R. ADHIKARI(DRILLING SUPER VISOR/FOREMAN),SRCL

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DRILLING METHOD : ROTARY

START DATE : Aug.16,2002  
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ELEVATION HOLE OF END :480.664  
LOCATION : BRIDGE

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%									
				0-15	15-30	30-45																
20.00															20	40	60	80	100			
			W2 MEDIUM STRONG PHYLLITE (BED ROCK ) <10cm CORE.				-	-	-	-	100	-										
21.00			20.50-21.70m BROWN COLOR CLAY AND SILT DOMINANT SAND BELOW IT W1 STRONG FRESH PHYLLITE (BED ROCK )				-	-	-	-	100	10										
22.00																						
			DARK BROWN COLOR,SILT AND CLAY DOMINANT SAND																			
23.00							-	-	-	-	100	-										
24.00			23.50-24.60m DARK BROWN COLOR SILT AND CLAY DOMINANT SAND BELOW IT W1 PHYLLITE (BED ROCK) <10cm CORE.				-	-	-	-	100	-										
25.00																						
			25.00-26.25m, DARK BROWN COLOR SILT AND CLAY DOMINANT SAND BELOW IT,W1 PHYLLITE <10cm CORE.				-	-	-	-	100	-										
26.00							-	-	-	-	100	-										
27.00			DARK BROWN COLOR SILT DOMINANT POORLY GRADED SAND.				-	-	-	-	100	-										
28.00																						
			DARK BROWN COLOR SILT DOMINANT POORLY GRADED SAND.				-	-	-	-	100	-										
29.00																						
			29.00-29.50m SANDY SILT BELOW IT W1 PHYLLITE (BEDROCK) <10cm CORE.				-	-	-	-	100	-										
30.00																						

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 : BISHNU KC/R. ADHIKARI(DRILLING SUPER VISOR/FOREMAN),SRCL

# EAST DRILLING COMPANY (P) LTD.

## BORE HOLE LOG

### KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: BP-1

COORDINATES: 3039975.144 N, 603116.975 E.

DRILLING MACHINE: VOLT-35

DRILLING METHOD: ROTARY

START DATE: 07/05/2002

COLLAR ELEVATION: 419.401m

ELEVATION HOLE END: 379.401 m

LOCATION: RAPATI RIVER

INCLINATION: VERTICAL

INCLINATION: VERTICAL																				
Depth, m	Barrel size	Core Log	Description	D C P T								Core Recovery						kg/cm2		
				Blows per 15 cm			Water Table m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80		100	Laboratory
				0-15	15-30	30-45														
0.00																				
	NX		Alluvium deposition of coarse grain sand with pebble to cobbles of light grey to dark grey quartzite and dolomite.				-													
				36	44	-	1.40	-	-	-	-	53	-							
1.00						26/80														
			Alluvium deposition of coarse grain, sand and cobble to boulders of dark to light grey and white, fine to medium grain slate, phyllite and marble.	80	-	-		-	-	-	-	26	-							
2.00						12/80														
			Alluvium deposition of coarse grain sand and cobble to boulder of white medium grain, crystalline marble.				2.00	-	-	-	-									
3.00				19	61	-		-	-	-	-	16	-							
						27/80														
			Alluvium deposition of medium grain sand and cobble to boulder of light to dark grey, fine to medium grain quartzite, dolomite and marble greenish grey phyllite.				2.00	-	-	-	-									
4.00				28	25	18		-	-	-	-	65	-							
						45/71														
			Alluvium deposition of coarse grain sand and cobble to boulder of dark grey, fine grain slate and white, medium grain marble.				2.00	-	-	-	-									
5.00				20	31	29		-	-	-	-	19	-							
						42/80														
			Alluvium deposition of medium to coarse grain sand and cobble to boulders of white, medium grain marble and dark grey, fine grain quartzite.					-	-	-	-									
6.00				15	15	19		-	-	-	-	32	-							
						45/49														
			Alluvium deposition of coarse grain sand and cobble to boulder of dark grey, fine grain quartzite and light grey, medium grain marble.				2.50	-	-	-	-									
7.00				19	21	23		-	-	-	-	13	-							
						45/63														
			Alluvium deposition of coarse grain sand and cobble to boulders of dark grey, fine grain quartzite and light grey, coarse grain, crystalline granite with mica, quartz, feldspar.					-	-	-	-									
8.00				80	-	-		-	-	-	-	17	-							
						11/80														
			Alluvium deposition of cobbles to boulder size dark grey, fine grain quartzite, white, medium grain marble and light grey, coarse grain granite with mica, quartz and feldspar.				2.80	-	-	-	-									
9.00				50	30	-		-	-	-	-	85	-							
						20/80														
			Alluvium deposition of coarse grain sand and cobble to boulder of light to greenish grey, fine grain phyllite and quartzite and medium grain marble.					-	-	-	-									
10.00				15	23	14		-	-	-	-	20	-							
						45/52														

**ABBREVIATION** rough=r, smooth=s, slickensided=sl, un=undulating, pl=planar, clay=cl, sand=sa, mica=mi, crushed=cr, iron stain=FeO

Zone, MB=Mechanical Breakage, W1=Fresh, W2=slightly Weathered, W3=Moderately Weathered, W4=Highly Weathered, W5=Decomposed.

FZ= Fractured, CL= Core loss

Drilled by: SANTA MAJHI

# EAST DRILLING COMPANY (P) LTD.

## BORE HOLE LOG

### KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: BP-1

COORDINATES: 3039975.144 N, 603116.975 E.

DRILLING MACHINE: VOLT-35

DRILLING METHOD: ROTARY

START DATE: 07/05/2002

COLLAR ELEVATION: 419.401m

ELEVATION HOLE END: 379.401 m

LOCATION: RAPATI RIVER

INCLINATION: VERTICAL

INCLINATION: VERTICAL																				
Depth, m	Barrel size	Core Log	Description	D C P T			Core Recovery											kg/cm2		
				Blows per 15 cm			Water Table m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80		100	Laboratory
				0-15	15-30	30-45														
10.00	NX		Alluvium deposition of medium to coarse grain, light brown sand.	17	11	5	3.00	-	-	-	-	0	-							
11.00																				
12.00																				
13.00																				
14.00																				
15.00																				
	66		Alluvium deposition of fine grain, light brown sand.	10	19	20	3.00	-	-	-	-	0	-							
12.00																				
13.00																				
14.00																				
	BX		Alluvium deposition of fine to medium grain sand and boulder of dark grey, fine grain quartzite.	8	4	30	3.00	-	-	-	-	0	-							
13.00																				
14.00																				
15.00																				
	BX		Alluvium deposition of fine to medium grain sand and boulder of dark grey, fine grain quartzite.	13	15	11	3.00	-	-	-	-	14	-							
14.00																				
15.00																				
16.00																				
	BX		Alluvium deposition of medium grain sand and cobbles of dark grey, fine grain quartzite and light grey, fine grain dolomite.	80			3.00	-	-	-	-	14	-							
15.00																				
16.00																				
17.00																				
	BX		The run from 15.00m bed rock is observed. W1, strong hard, dark grey, fine grain, fractured and fragmented slate with quartz vein. Core loss : 15.30 to 16.00 m.				3.00	-	10 <sup>u</sup>	Ir	4	30	-							
16.00																				
17.00																				
18.00																				
	BX		W1, strong hard, dark grey, fine grain, moderately jointed calcarious slate with quartz vein. Core loss : 16.00 to 16.80 m.				3.00	-	20 <sup>u</sup>	Ir	5	20	-							
17.00																				
18.00																				
19.00																				
	BX		Total core loss, dard grey, coarse grain sand particle found as sludge black water return during drilled. Core loss : 17.00 to 18.00 m.				3.00	-	-	-	0	0	-							
18.00																				
19.00																				
20.00																				
	BX		Total core loss dark grey, fine to medium grain sand size particle as sludge, black water return during drilled. Core loss : 18.00 to 19.00 m.				3.00	-	-	-	0	0	-							
19.00																				
20.00																				
21.00																				
	BX		Total core loss dark grey, fine grain sand size particle as sludge black water return from hole during drilled. Core loss : 19.00 to 20.00 m.				3.00	-	-	-	0	0	-							
20.00																				
21.00																				
22.00																				

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Zone, MB=Mechanical Breakege, W1=Fresh, W2=slightly Weathered, W3=Moderately Weathered, W4=Highly Weathered, W5=Decomposed.

FZ= Fractured, CL= Core loss

Drilled by:SANTA MAJHI

**ABBREVIATION** rough=r, smooth=s, slickensided=sl, un=undulating, pl=planar, clay=cl, sand=sa, mica=mi, crushed=cr, iron stain=FeO  
 Zone, MB=Mechanical Breakage, W1=Fresh, W2=slightly Weathered, W3=Moderately Weathered, W4=Highly Weathered, W5=Decomposed.  
 FZ= Fractured, CL= Core loss  
 Drilled by: SANTA MAJHI

EAST DRILLING COMPANY (P) LTD.														
BORE HOLE LOG														
KULEKHANI-3 HYDROELECTRIC POWER PROJECT														
DRILL HOLE NO.: BP-1					START DATE: 07/05/2002									
COORDINATES: 3039975.144 N, 603116.975 E.					COLLAR ELEVATION: 419.401m									
DRILLING MACHINE: VOLT-35					ELEVATION HOLE END: 379.401 m									
DRILLING METHOD: ROTARY					LOCATION: RAPATI RIVER									
					INCLINATION: VERTICAL									
Depth, m	Barrel size	Core Log	Description	Water Table m	Core Recovery									
					Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80
20.00														
	BX		Total core loss . Dark grey, fine to medium, grain sand particle as sludge. Black water return from hole during drilled. CI : 20.00 to 21.00 m.		-	-	-	0	0	-				
21.00														
			Total core loss . dark grey, fine grain, sand particle as sludge. Black water return from hole during drilled.	3.00	-	-	-	0	0	-				
22.00			Core loss : 21.00 to 22.00 m.											
	56		W1, strong hard, dark grey, fine grain slaty cleavage, moderately jointed slate. Sludge are found.	3.00	-	40 <sup>u</sup>	Ir	2	5	-				
23.00			Core loss : 22.00 to 22.95 m.			50 <sup>u</sup>								
	BX		Total core loss, dark grey, fine to medium grain sand particle as sludge.	3.00	-	-	-	0	0	-				
24.00			Core loss : 23.00 to 24.00 m.											
	56		W1, strong hard, dark grey, fine grain, fragmented calcic slate with quartz vein . Sludge are found.	3.00	-	20 <sup>u</sup>	Ir	4	10	-				
25.00			Core loss : 24.10 to 25.00 m.			40 <sup>u</sup>								
			W1, strong hard, dark grey, fine grain, highly jointed and fragmented, calcic slate with quartz vein.		-	30 <sup>u</sup>	Ir	8	60	-				
26.00			Core loss : 25.45 to 25.85 m.			50 <sup>u</sup>								
			W1, strong hard, dark grey, fine grain slaty cleavage, highly jointed and fragmented slate with quartz vein. Core loss : 26.00 to 26.60 m.	3.00	-	30 <sup>u</sup>	Ir	6	40	-				
27.00														
			W1, strong hard, dark grey, fine grain, slaty cleavage, moderately jointed and fragmented calcic slate.		-	20 <sup>u</sup>	Ir	5	28	-				
28.00			CI : 27.00 to 27.38 m & 27.66 to 28.00 m.			30 <sup>u</sup>								
			W1, strong hard, dark grey, fine grain, moderately jointed and fragmented slate. Sludge are found.		-	30 <sup>u</sup>	Ir	4	18	-				
29.00			Core loss : 28.18 to 29.00 m.			50 <sup>u</sup>								
			W1, strong hard, dark grey, fine grain highly jointed and fragmented slate. Sludge are found.	3.00	-	20 <sup>u</sup>	Ir	3	19	-				
30.00			Core loss : 29.00 to 29.81 m.			50 <sup>u</sup>								
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# EAST DRILLING COMPANY (P) LTD.

## BORE HOLE LOG

### KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: BP-1

COORDINATES: 3039975.144 N, 603116.975 E.

DRILLING MACHINE: VOLT-35

DRILLING METHOD: ROTARY

START DATE: 07/05/2002

COLLAR ELEVATION: 419.401 m

ELEVATION HOLE END: 379.401 m

LOCATION: RAPATI RIVER

INCLINATION: VERTICAL

Depth, m	Bore size	Core Log	Description	Water Table m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	Core Recovery					kg/cm <sup>2</sup>	Laboratory
											RQD%	20	40	60	80	100	
30.00	56mm		W1, strong hard, dark grey, fine grain, slaty cleavage, moderately jointed and fragmented slate. Core loss : 30.34 to 31.00 m.		-	20° 50°	lr	7	34	-							
31.00			Total core loss dark grey, medium grain sand size particle as sludge are found. Core loss : 31.00 to 32.00 m.		-	-	-	0	0	-							
32.00			Total core loss dark grey, coarse grain sand size particle as sludge are found. Core loss : 32.00 to 33.00 m.		-	-	-	0	0	-							
33.00			Total core loss dark grey, medium grain sand size particles as sludge are found. Core loss : 33.00 to 34.00 m.	3.00	-	-	-	0	0	-							
34.00			W1, strong hard, dark grey, fine grain, slaty cleavage, moderately jointed slate with quartz vein. Core loss : 34.00 to 34.71 m.		-	30° 50°	lr	6	29	-							
35.00			W1, strong hard, dark grey, fine grain, slaty cleavage, moderately jointed slate with quartz vein. Core loss : 35.51 to 36.00 m.		-	20° 50°	lr	8	51	-							
36.00			Total core loss, dark grey, medium grain sand size particle as sludge. Core loss : 36.00 to 37.00 m.		-	-	-	0	0	-							
37.00			W1, strong hard, dark grey, fine grain slate with quartz vein. Sludge as dark grey medium grain sand size particle. Core loss : 37.00 to 37.19 m		-	-	-	2	9	-							
38.00			Total core loss, dark grey, fine to medium grain sand size particle as sludge. Core loss : 38.00 to 39.00 m.		-	-	-	0	0	-							
39.00			W1, strong hard, dark grey, fine grain, slaty cleavage, jointed slate dark grey, medium grain sand size particle as sludge. CL : 39.00 to 39.86 m.		-	20° 40°	lr	5	14	-							
40.00																	

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 Zone, MB=Mechanical Breakage, W1=Fresh, W2=slightly Weathered, W3=Moderately Weathered, W4=Highly Weathered, W5=Decomposed.  
 FZ= Fractured, CL= Core loss  
 Drilled by: MAN Bdr. MAGAR

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

DRILL HOLE NO. BCT-1  
COORDINATES 3043672.006,603225.647,773.892  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UD5  
DRILLING METHOD : ROTARY

START DATE : 15-05-2002  
COMPLETION DATE : 21-05-2002  
COLLAR ELEVATION : 773.892  
ELEVATION OF HOLE END : 733.892  
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%								
				0-15	15-30	30-45															
0.00														20	40	60	80	100			
			TOP COLLUVIUM COMPOSED OF TOPSOIL WITH COBBLES.									0									
1.00																					
			COARSE SANDY MATRIX OF MARBLE AND SOIL.									100									
2.00																					
			FINE TO COARSE SANDY SOIL WITH MARBLE MATRIX.									100									
3.00																					
			WEATHERED FRAGMENTS OF MARBLE																		
4.00																					
			W2-W3 MARBLE BOULDERS WITH COLLUVIUM, DIAMETER UPTO 37 cm. LIGHT YELLOW COLOR SANDY MATRIX COLLECTED AS MATRIX UPTO 3.60m.									100									
5.00																					
			W3-W4 MARBLE BOULDERS WITH YELLOW COLOR SANDY SOIL AS SLUDGE.									100									
6.00																					
			W3-W4 MARBLE BOULDERS WITH LIGHT GRAY TO YELLOW COLOR SANDY SOIL/CALCAREOUS MATRIX.									100									
7.00																					
			W1-W2 MARBLE BOULDERS WITH SAND / CALCAREOUS MATRIX COLLECTED AS SLUDGE.									100									
8.00																					
			W3-W4 YELLOW COLOR CALCAREOUS DUST/ CALCAREOUS MATRIX WITH MARBLE FRAGMENTS.									100									
9.00																					
10.00																					

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

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

DRILL HOLE NO. BCT-1  
COORDINATES 3043672.006,603225.647,773.892  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UD5  
DRILLING METHOD : ROTARY

START DATE : 15-05-2002  
COMPLETION DATE : 21-05-2002  
COLLAR ELEVATION : 773.892  
ELEVATION OF HOLE END : 733.892  
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%								
				0-15	15-30	30-45															
10.00																					
			W3-W4 MARBLE ROCK FRAGMENTS.							r		100									
			CORELOSS 10.40-11.15 m. TOP OF BEDROCK AT 11.15m																		
11.00																					
			W1-W2, MEDIUM STRONG, JOINTED, MARBLE ROCK.							S	9	50	44								
12.00																					
			W1-W2, MEDIUM STRONG, JOINTED, WHITE TO LIGHT GRAY CLOR MARBLE ROCK.								6	100	84								
13.00																					
			W1-W2 MEDIUM STRONG, JOINTED, MEDIUM TO COARSE GRAINED MARBLE WITH FEW LAMINATIONS.								6	100	76								
14.00																					
15.00																					
			W1-W2, WHITE AND LIGHT GRAY COARSE GRAINED GOOD QUALITY MARBLE ROCK.							S	7	100	76								
16.00																					
			W1-W2, WHITE AND LIGHT GRAY COARSE GRAINED GOOD QUALITY MARBLE ROCK.								7	100	76								
17.00																					
			W1-W2 STRONG, LIGHT GRAY TO WHITE COLOR COARES GRAINED BLOCKY TYPE GOOD QUALITY MARBLE.							S	6	100	94								
18.00																					
			W1-W2 MEDIUM STRONG, JOINTED								r	9	100	58							
19.00																					
20.00																					

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



KULEKHANI III HYDROPOWER PROJECT  
BORE HOLE LOG

DRILL HOLE NO. BCT-1  
COORDINATES :3043672.006,803225.647,773.892  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UD5  
DRILLING METHOD : ROTARY

START DATE : 15-05-2002  
COMPLETION DATE : 21-05-2002  
COLLAR ELEVATION : 773.892  
ELEVATION OF HOLE END : 733.892  
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 %	RQD%						PERMEABILITY	LAB TEST	SCREEN PIPE	
				0-15	15-30	30-45																
20.00															20	40	60	80	100			
			BLOCKY MARBLE OF FAIR TO GOOD QUALITY.						r	7	100	58										
21.00																						
			W1-W2 MEDIUM GRAINED, STRONG, JOINTED, GREY LAMINATEDM AND WHITE COLOR, MARBLE ROCK.						r	6	100	83										
22.00									S													
23.00																						
			W1-W2 STRONG , LIGHT GRAY TO WHITE COLOR, COARSE GRAINED STRONG MARBLE.							6	100	78										
24.00																						
			W1-W2, MEDIUM STRONG , MASIVE TYPE, WHITE AND GRAY COLOR MARBLE.						S													
25.00										6	100	81										
26.00			W1-W2, MEDIUM STROG, JOINTED, COARSE GRAINED WHITE TO LIGHT GRAY COLOR MARBLE. CORE LOSS AT 26.57-26.77m.						r	9	86	66										
27.00																						
28.00			W1-W2 , STRONG, MASSIVE TYPE LIGHT GRAY AND WHITE COLOR MARBLE.							7	100	82										
									r													
29.00																						
			W1-W2 MEDIUM STRONG , JOINTED MARBLE OF FAIR QUALITY.																			
									S	10	100	46										
30.00																						

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

**KULEKHANI III HYDROPOWER PROJECT  
BORE HOLE LOG**

DRILL HOLE NO. BCT-1  
COORDINATES 3043672.006,803225.847,773.892  
INCLINATION : VERTICAL  
DRILLING MACHINE : TONE-UD5  
DRILLING METHOD : ROTARY

START DATE : 15-05-2002  
COMPLETION DATE : 21-05-2002  
COLLAR ELEVATION : 773.892  
ELEVATION OF HOLE END : 733.892  
LOCATION : CONNECTION TUNNEL

Depth.m	Casing size	Core Log	S P T			DISCONTINUITIES					CORE RECOVERY RQD %					LU				
			Blows per 15 cm			WATER LEVEL	ALTERATION	ORIENTATION	ROUGHNESS	JOINT/m	REC %	ROD%								
			0-15	15-30	30-45															
30.00														20	40	60	80	100		
		W2-W3, MEDIUM STRONG MARBLE.							s	4	100	90								
31.00									s	6	100	83								
32.00		W1-W2 LIGHT GRAY TO WHITE COLOR, STRONG, MARBLE OF GOOD QUALITY.							s	9	100	80								
		W1-W2 MEDIUM STRONG MARBLE.							s	9	100	80								
33.00										9	100	80								
		W1-W2 WHITE COLOR, STRONG, MASSIVE MARBLE OF GOOD QUALITY								6	100	91								
34.00									S											
35.00		W1-W2, LIGHT GRAY COLOR, STRONG, MASSIVE TYPE MARBLE OF GOOD QUALITY.								7	100	92								
36.00		W1-W2, WHITE TO LIGHT GRAY COLOR, OFTEN LAMINATED, MASSIVE TYPE MARBLE CORE LOSS AT 35.67-35.77m.							r	8	93	81								
37.00																				
		W1-W2, LAMINATED AND WHITE COLOR, STRONG, GOOD QUALITY MARBLE.								10	100	80								
38.00									r											
39.00		W1-W2 LIGHT GRAY AND WHITE COLOR, JOINTED, MARBLE OF FAIR TO GOOD QUALITY. CORE LOSS AT 38.55-38.75m.								9	87	67								
40.00									r											

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