

EAST DRILLING COMPANY (P) LTD.																			
BORE HOLE LOG																			
KULEKHANI-3 HYDROELECTRIC POWER PROJECT																			
DRILL HOLE NO.: BS-1												START DATE: 12/03/2002							
COORDINATES:3039796.489N, 602636.927E												COLLAR ELEVATION: 505.384 m							
DRILLING MACHINE: JOY												ELEVATION HOLE END:395.384m							
DRILLING METHOD: ROTARY												LOCATION: SANUTAR VILLAGE							
												INCLINATION: VERTICAL							
Depth, m	Barrel Size	Core Log	Description	S P T			Water Level m	Alteration	Orientation	Roughness	Joint/R cm	Core Recovery					kg/cm2		
				Blows per 15 cm								REC%	RQD%	20	40	60		80	100
90.00	56			0-15	15-30	30-45													
			Total core loss. Core loss due to soft rock and crushed zone of slate. Dark grey, fine to medium grain sand size sludge are found.CL: 90.0 to 91 m.						-	-	-	0	0	-					
91.00			Total core loss						-	-	-	0	0	-					
91.50			Core loss : 90.00 to 91.50 m.					22.60	-	-	-	0	0	-					
92.00			Total core loss						-	-	-	0	0	-					
			Core loss : 90.00 to 92.00 m.																
			W1, strong hard, dark grey, fine grain, slate with Quartz vein.						-	40°	Ir	4	16	-					
			Core loss : 92.00 to 92.55 m and 92.71 to 93.00 m							60°									
93.00			Total core loss. Core loss due to soft rock and crushed zone of slate. Dark grey, fine to medium grain sand size sludge are found.CL: 93.0 to 94.0 m.						-	-	-	0	0	-					
94.00			W1, strong hard, dark grey, fine grain, slate with Quartz vein and fine grain sand of crushed material.						-	20°	Ir	6	100	-					
94.50			Total core loss					21.30	-	50°									
95.00			Core loss : 94.50 to 95.00 m.					20.70	-	-	-	0	0	-					
			W1, strong hard, dark grey, fine grain slate with Quartz vein						-	50°	Ir	4	12	-					
			Core loss : 95.00 to 95.88 m																
96.00			Total core loss. Core loss due to soft rock and crushed zone of slate. Dark grey, fine to medium grain sand size sludge are found.CL: 96.0 to 97 m.						-	-	-	0	0	-					
97.00	Total core loss						-	-	-										
97.50	Core loss : 97.00 to 97.50 m.					21.50	-	-	-	0	0	-							
98.00	Total core loss					23.60	-	-	-										
	Core loss : 97.50 to 98.50 m.																		
	Total core loss. Core loss due to soft rock and crushed zone of slate. Dark grey, fine to medium grain sand size sludge are found.CL: 98.0 to 99.0 m.						-	-	-	0	0	-							
99.00	Total core loss. Core loss due to soft rock and crushed zone of slate. Dark grey, fine to medium grain sand size sludge are found.CL: 99.0 to 100.0 m.						-	-	-	0	0	-							
100.00																			

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: JOON SHRESTHA

EAST DRILLING COMPANY (P) LTD.

BORE HOLE LOG

KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: BS-1
 COORDINATES: 3039796.489N, 602636.927E
 DRILLING MACHINE: JOY
 DRILLING METHOD: ROTARY

START DATE: 12/03/2002
 COLLAR ELEVATION: 505.384 m
 ELEVATION HOLE END: 395.384m
 LOCATION: SANUTAR VILLAGE
 INCLINATION: VERTICAL

Depth, m	Barrel Size	Core Log	Description	S P T									Core Recovery					kg/cm ²	Laboratory
				0-15	15-30	30-45	Water Level m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80	100	
100.00	56mm		W1, loose, coarse grain dark grey slate as crushed material.				21.80	-	-	-	0	86	-						
			Core loss : 100.00 to 100.14 m																
101.00			W1, strong hard, dark grey, fine grain, calcarious slate with crushed material as coarse grain sand.					-	40 ^u 60 ^u	Ir	4	72	-						
			Core loss : 101.00 to 102.28 m																
102.00			W1, strong hard, dark gr. fine grain, slaty cleavage, cal. slate with crushed material.					-	60 ^u	Ir		100	-						
102.50			Total core loss crushed material as sludge of dark grey, fine grain sand.				21.60	-	-	-	5	0	-						
103.00			Core loss : 102.00 to 103.00 m																
			Total core loss, fine grain, dark grey material are collected as sludge.					-	-	-	0	0	-						
			Core loss : 103.00 to 104.00 m																
104.00			W1, medium hard, dark grey, fine grain, slaty cleavage, highly jointed calcarious slate with sludge of fine grain dark grey					-	50 ^u	Ir	4	22	-						
105.00			Core loss : 104.00 to 104.78 m				21.80												
			Total core loss dark grey, fine grain sludge are found.					-	-	-	0	0	-						
			Core loss : 105.00 to 106.00 m																
106.00			Total core loss dark grey, fine grain sludge are collected.					-	-	-	0	0	-						
			Core loss : 106.00 to 107.00 m																
107.00			Total core loss, dark grey, fine grain sludge are collected.					-	-	-	0	0	-						
			Core loss : 107.00 to 108.00 m																
108.00			Total core loss dark grey, fine grain sludge are found.					-	-	-	0	0	-						
			Core loss : 108.00 to 109.00 m																
109.00			Total core loss : dark grey, fine grain sludge are found during drilling.					-	-	-	0	0	-						
			Core loss : 109.00 to 110.00 m																
110.00																			

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 Drilled by: JOON SHRESTHA

EAST DRILLING COMPANY (P) LTD.
BORE HOLE LOG
KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: DHT-4
 COORDINATES: 3039493.555N, 602656.722E
 DRILLING MACHINE: VOLT-35
 DRILLING METHOD: ROTARY

START DATE: 11/03/2002
 COLLAR ELEVATION: 483.425 m
 ELEVATION HOLE END: 405.425 m
 LOCATION: KESHARI KHOLA
 INCLINATION: VERTICAL

Depth, m	Barrel Size	Core Log	Description of rock / soil	D C P T			Description of Discontinuities							Core Reco					Results	
				Blows per 15 cm			Water Level m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	RQD%					Permeability	Laboratory
				0-15	15-30	30-45								20	40	60	80	100		
1.00	NX	○	Alluvium of gravel with cobble, pebbles of pyllitic quartzite and quartzite. W1-W2, dark grey, fine grained quartzite & dolomite				-	-	-	-	-	100	-							
1.50	NX	○	Alluvium deposition of cobble, boulder quartzite, W1-W2, dark grey, fine grained fractured with mica, quartz.				-	-	-	-	-	60	-							
2.00		○	Alluvium deposition of cobble, boulder of quartzite, W1, dark grey to white, fine grained with mica, feldspar, quartz.	37	43	26/80	-	-	-	-	-	60	-							
3.00		○	Alluvium deposition of gravel of quartzite with coarse grained sand found as sludge, W2, dark grey, fine grained quartzite with mica, Quartz.				-	-	-	-	-	5	-							
4.00		○	Alluvium deposition of pebble and cobble of Quartzite and coarse grained size sand as sludge. W1-W2, light to dark grey, fine grain Quartzite with mica, feldspar, Quartz.	50	30	20/80	2.50	-	-	-	-	53	-							
4.50		○					2.40	-	-	-	-									
5.00		○	Alluvium deposition of W1-W2, white, fine grained Quartzite, sludge of coarse grained sand.	45	35	30/80	2.00	-	-	-	-	14	-							
6.00		○					2.00	-	-	-	-									
6.50		○	Alluvium deposition of cobble size, W1-W2, white, fine grained, dolomite & Quartzite, sludge of coarse grained sand.	11	20	16	2.30	-	-	-	-	36	-							
7.00		○					2.00	-	-	-	-									
7.50		○	Alluvium deposition of boulder, W1-W2, white, fine grain, fractured	11	20	42		-	-	-	-	56	-							
8.00		○						-	-	-	-	30	-							
8.50		○	Alluvium deposition of boulder, W1-W2, dark grey, fine grained, lamellar phyllite with mica.	73	7	-		-	-	-	-	39	-							
9.00		○	Alluvium deposition of boulder, W1, light to greenish, coarse grain, crystalline Quartzite with mica, quartz.			20/80	1.80	-	-	-	-									
9.50		○					1.95	-	-	-	-									
10.00		○	Alluvium deposition of fine grain; sand and boulder size, W2, greenish to light grey, medium grain Quartzite and dolomite	20	15	15		-	-	-	-	18	-							
		○						-	-	-	-									
		○	Alluvium deposition of fine to coarse grain sand and boulder size, W1-W2, light grey, fine to medium grain Quartzite and dolomite	32	24	22		-	-	-	-	17	-							
		○						-	-	-	-									
		○		53	27	-		-	-	-	-									
		○				17/80														

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 Drilled by: SHIVA LAMICHANE

EAST DRILLING COMPANY (P) LTD.

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 DRILLING METHOD: ROTARY

START DATE: 11/03/2002
 COLLAR ELEVATION: 483.425 m
 ELEVATION HOLE END: 405.425 m
 LOCATION: KESHARI KHOLA
 INCLINATION: VERTICAL

Depth, m	Barrel size	Core Log	Description	D C P T			Core Recovery										Results			
				Blows per 15 cm			Water Level m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80	100	Permeability	Laboratory
				0-15	15-30	30-45														
10.00																				
	NX		Alluvium deposition of medium grain sand found as sludge.				2.30													
								-	-	-	-	0	-							
11.00				45	35	-														
			Alluvium deposition of fine grain sand found as sludge. Soft rock crushed during drill.			25/80		-	-	-	-	0	-							
12.00				80	-	-														
			Initial 12 cm is alluvium deposition of quartzite. Bed rock started from 12.12m. that is W1-W2, med. hard, gr. grey, fine grain, massive ss.			6/80		-	50 ^u 60 ^u -65 ^u	r	3	88	81							
13.00			MB : 12.37m & 12.73m W1-W3, soft to medium hard, greenish grey, fine grain sand stone Core loss : 13.07 to 14.00m					-	50 ^u	r	2	7	-							
14.00																				
			W1-W3, soft to medium hard, greenish grey, fine grain, jointed sand stone CL : 14.00 to 14.75m.				2.3	-	40 ^u 50 ^u	r	8	25	-							
15.00																				
			W1-W3, soft to medium hard, greenish grey, fine grain, jointed sand stone CL : 15.33 to 15.73m					-	70 ^u	r	10	60	-							
16.00																				
			W1-W2, medium hard, greenish grey, fine grain, sand stone. CL : 16.00 to 16.74m.					-	50 ^u	r	3	26	22							
17.00																				
			W1-W2, soft to medium hard, greenish grey, fine grain sand stone. Soft weathered rock crushed during drill . Core loss : 17.00 to 17.89m					-	40 ^u 50 ^u	r	3	11	-							
18.00																				
			Total core loss. Soft weathered crushed rock is collected as sludge Core loss : 18.00 to 19.00m					-	-	-	0	0	-							
19.00																				
			W1-W2, soft to medium hard, greenish grey, fine grain ss. Soft weathered rock is crushed that is collected as sludge. CL:19.-19.73m.					-	30 ^u 60 ^u	r	4	27	13							
20.00																				

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Drilled by: SHIVA LAMICHHANE

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




START DATE: 11/03/2002

COLLAR ELEVATION: 483.425 m

ELEVATION HOLE END: 405.425 m

LOCATION: KESHARI KHOLA

INCLINATION: VERTICAL

Depth, m	Bore size	Core Log	Description	Water Table m.	Core Recovery										Results		
					Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80	100	Permeability	Laboratory
20.00	NX		W1-W2, soft to medium hard, greenish grey, fine grain sand stone. Soft rock crushed and sludge are found. Core loss : 20.00 to 20.90m	2.25 3.65	-	30°	r	2	10	-							
21.00			W1-W2, soft to medium hard, greenish grey, fine grain, jointed sand stone. Core loss : 21.00 to 21.70m		-	30°	r	6	30	10							
22.00			W1-W2, soft to medium hard, greenish grey, fine grain sand stone Core loss : 22.00 to 22.78m		-	60°	r	4	22	11							
23.00			W1-W2, medium hard, greenish grey, fine grain sand stone. Core loss : 23.00 to 23.34m MB : 23.61m		-	50° 60°	r	10	66	22							
24.00			W1-W2, medium hard, greenish grey, fine grain sand stone. Soft, weathered rock found as sludge.CL:: 24.00 to 24.69m		-	50°	r	4	31	20							
25.00			W1-W2, soft to medium hard, greenish grey, fine grain sand stone. Core loss : 25.00 to 25.32m		-	40° 50°	r	10	68	40							
26.00			W1-W2, soft to medium hard, greenish grey, fine grain, jointed sand stone. Core loss: 26.00 to 26.23m		-	20° 40° 60°	r	11	77	14							
27.00			W1- W2, soft to medium hard, greenish grey, fine grain sand stone. Core loss : 27.50 to 27.84m MB : 27.12m	2.00 6.00	-	40° 50°	r	8	66	40							
28.00			W1-W2, soft to medium hard, greenish grey, fine grain sand stone Core loss : 28.00 to 28.37m MB : 28.57m		-	20° 50°	r	7	83	45							
29.00			W1-W2, soft to medium hard, greenish grey, fine grain, jointed sand stone. Core loss : 29.00 to 29.54m		-	30° 40°	r	9	46	12							
30.00																	

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ELEVATION HOLE END: 405.425 m
LOCATION: KESHARI KHOLA
INCLINATION: VERTICAL

Depth, m	Bore size	Core Log	Description	Water Table m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	Core Recovery					Results	
											RQD%					LU	kg/cm2
30.00	66mm		W1-W2, medium hard, greenish grey to dark grey, fine grain sand stone.		-	40 ^u 50 ^u	r	12	100	58							
31.00			W1-W2, medium hard, greenish grey to dark grey, fine grain sand stone.		-	60 ^u	r	5	77	61							
32.00			Core loss : 31.00 to 31.23m														
32.60			W2, soft to medium hard, dark grey, fine grain, jointed sand stone.		-	50 ^u	r	15	100	-							
33.00			W1, medium hard, dark to greenish grey, fine grain, massive sand stone. MB : 33.00m.		-	40 ^u	r		100	57							
33.30			W1, medium hard, greenish grey, fine grain, massive sand stone.		-	40 ^u	r	3	80	64							
34.00			Core loss : 33.30 to 33.43m.														
			W1-W2, medium hard, dark grey to greenish grey, fine grain sand stone. MB : 34.12m and 34.24m		-	20 ^u 40 ^u	r	12	100	58							
35.00			W1, medium hard, dark grey to greenish grey, fine grain, massive sand stone. MB : 36.53m and 36.00m.		-	5 ^u 50 ^u	r	1	100	88							
36.00			W1, medium hard, greenish grey to dark grey, fine grain, massive sand stone. MB : 36.87m.	2.10 4.25	-	10 ^u 60 ^u	s, r	12	100	16							
37.00			W1-W3, medium hard, greenish grey to dark grey, fine grain, massive, jointed, fractured sand stone.		-	20 ^u -40 ^u 60 ^u	r	6	100	73							
38.00			W1-W3, medium hard greenish grey to dark brown, fine grain, massive, jointed sand stone. MB : 38.67m.		-	10 ^u 40 ^u 50 ^u	r	7	100	73							
39.00			W1-W2, medium hard, greenish to dark grey, fine grain, massive jointed sand stone. MB : 39.58m.	2.20 4.20	-	10 ^u 40 ^u	r	4	100	56							
40.00																	

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DRILLING METHOD: ROTARY										LOCATION: KESHARI KHOLA							
										INCLINATION: VERTICAL							
Depth, m	Borel size	Core Log	Description	Water Table m	Alteration	Orientation	Roughness	Joint/R cm	Core Recovery						Results		
									RQD%	REC%	RQD%	20	40	60	80	100	Permeability
40.00	NX																
40.50			W1-W2, medium hard, dark brown to greenish grey, fine grain, jointed sand stone. MB : 41: 69m				12										
41.00					-	10° 50°	r	3	100	75							
42.00																	
43.00			W1-W3, medium hard, brownish to greenish grey, fine grain, massive sand stone. Core loss : 43.30 to 43.45m.		-	50°	r	3	90	82							
43.50								5									
44.00			W1-W2, medium hard, greenish grey to dark brown, fine grain, massive sand stone.		-	40° 50°	r		100	87							
44.45			MB : 43.91m				4										
45.00			W2-W3, medium hard, dark brown, fine grain, massive jointed and fragmented sand stone. MB : 45.00m and 45.04m.	2.10 4.35	-	10° 30° 40°	lr	7	100	88							
46.00																	
47.00			W1-W2, medium hard, dark brown, purple, fine grain, massive, fractured sand stone.		-	60°	r	5	100	70							
48.00			W1-W2, medium hard, dark brown to purple and greenish grey, fine grain, jointed sand stone.		-	20° 50°	r	6	88	41							
49.00			W2-W3, soft to medium hard, greenish grey to dark brown and purple, fine grain sand stone.		-	20° 40°	lr	7	36	-							
50.00			W2, soft to medium hard, greenish grey, fine grain, jointed sand stone. Core loss : 49.00 to 49.62m.		-	20° 30°	r	9	38	-							
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 W5=Decomposed, FZ= Fractured, CL= Core loss

Drilled by: SHIVA LAMICHHANE

EAST DRILLING COMPANY (P) LTD.															
BORE HOLE LOG															
KULEKHANI-3 HYDROELECTRIC POWER PROJECT															
DRILL HOLE NO.: DHT-4								START DATE: 11/03/2002							
COORDINATES: 3039493.555N, 602656.722E								COLLAR ELEVATION: 483.425 m							
DRILLING MACHINE: VOLT-35								ELEVATION HOLE END: 405.425 m							
DRILLING METHOD: ROTARY								LOCATION: KESHARI KHOLA							
								INCLINATION: VERTICAL							
Depth, m	Bore size	Core Log	Description	Water Level m	Alteration	Orientation	Roughness	Joint/R cm	Core Recovery					Results	
									REC%	RQD%	20	40	60	80	100
60.00	NX		W1, medium hard, greenish grey, fine grain, massive sand stone. Core loss : 60.34 to 60.65m.	2.30 2.10	-	50 ^u	r	5	69	29					
61.00			W2-W3, soft to medium hard, greenish grey, fine grain sand stone and dark brown massive mud stone. Core loss : 61.27 to 61.50m.		-	30 ^u 50 ^u	r	9	85	19					
62.00			W2-W3, soft to medium hard, dark brown to purple, fine grain, massive mud stone. Core loss : 62.88 to 63.46m.		-	20 ^u 40 ^u 50 ^u	r	12	61	13					
62.50															
63.00															
64.00			W2-W3, soft to medium hard, dark brown, fine grain, massive mud stone. Core loss : 64.00 to 64.28m.		-	50 ^u	r	6	72	36					
65.00			W2-W4, soft to medium hard, dark brown to greenish grey, fine grain. mud stone and sand stone. CL: 65.0 to 65.36 & 65.46 to 65.88m		-	50 ^u	r	5	22	-					
66.00			W3-W5, soft, greenish grey to brownish, fine grain sand stone Core loss : 66.00 to 66.21m.		-	50 ^u	r	12	79	-					
67.00			W2-W5, soft to medium hard, brownish to greenish grey, fine grain, massive sand stone. Core loss : 67.00 to 67.10m and 67.52 to 67.73m		-	30 ^u 50 ^u	r	10	69	-					
68.00			W2-W3, soft to medium hard, greenish grey, brownish to purple, fine grain sand stone and mud stone. Core loss : 68.00 to 68.60m		-	50 ^u	r	5	40	-					
69.00			W3-W4, soft to medium hard, dark brown, massive mud stone Core loss : 69.00 to 69.62m.		-	50 ^u	r	4	38	10					
70.00															
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: SHIVA LAMICHHANE															

EAST DRILLING COMPANY (P) LTD.																										
BORE HOLE LOG																										
KULEKHANI-3 HYDROELECTRIC POWER PROJECT																										
DRILL HOLE NO.: DHT-4								START DATE: 11/03/2002																		
COORDINATES: 3039493.555N, 602656.722E								COLLAR ELEVATION: 483.425 m																		
DRILLING MACHINE: VOLT-35								ELEVATION HOLE END: 405.425 m																		
DRILLING METHOD: ROTARY								LOCATION: KESHARI KHOLA																		
								INCLINATION: VERTICAL																		
Depth, m	Bore size	Core Log	Description	Water Table m	Alteration	Orientation	Roughness	Joint/ cm	Core Recovery					Results												
									REC%	RQD%	20	40	60	80	100	Permeability	Laboratory									
70.00	NX 66mm		W3-W4, soft to medium hard, dark brown to purple, massive mud stone.	2.10 4.00	-	50 ^u	r	12	95	13																
			Core loss : 71.00 to 71.08m																							
71.00																										
71.50																										
72.00			W3-W5, soft to medium hard, dark brown, massive mud stone.																							
73.00																										
74.00			W2-W4, soft to medium hard, brownish to purple, massive mud stone.																							
			Core loss : 74.00 to 74.26m																							
74.50																										
75.00			W1-W2, medium to strong hard, brownish to purple, massive mud stone.																							
			MB : 75.52m and 75.84m																							
76.00																										
77.00			W1-W4, soft to strong hard, brownish to purple, massive mud stone.																							
	Core loss : 76.00 to 76.39m and 77.00 to 77.08m																									
77.50																										
78.00	W1-W3, soft to medium hard, purple to brownish massive mudstone.																									
78.20																										
			END OF THE HOLE																							
79.00																										
80.00																										

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: SHIVA LAMICHHANE





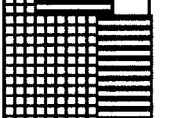
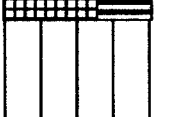

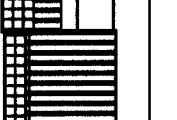
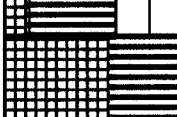
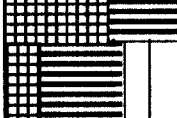

EAST DRILLING COMPANY (P) LTD.

BORE HOLE LOG

KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: DHT-6
 COORDINATES: 3039334.844N, 602651.540E
 DRILLING MACHINE: Vol-35
 DRILLING METHOD: ROTARY

START DATE: 06/04/2002
 COLLAR ELEVATION: 512.640 m
 ELEVATION HOLE END: 452.640 m
 LOCATION: KESARI KHOLA
 INCLINATION: VERTICAL

Depth, m	Barrel Size	Core Log	Description	Water Level m.	Alteration	Orientation	Roughness	Joint/R cm	Core Recovery					Laboratory
									REC%	RQD%	20	40	60	
20.00	NX		W1-W2, medium hard, light to greenish grey, fine grain, massive sand stone. Core loss : 20.10 to 20.85 m.	18.6		30° 50°	ir	5	25	0				
21.00			W1-W2, medium to strong hard, greenish to dark grey, fine grain massive sand Core loss : 21.00 to 21.42 m			50°	ir	6	58	18				
22.00			W1, soft to strong hard, greenish grey to dark grey, fine grain, massive sand stone. Core loss : 22.43 to 22.62 m			50°	ir	5	81	51				
23.00			Total core loss, softsand stone washed away during drilling Core loss : 23.00 to 24.00 m			-	-	0	0					
24.00			W1-W2, medium hard, dark grey, fine grain, massive sand stone. Core loss : 24.00 to 24.70 m			50°	ir	4	30	21				
25.00			W2, soft, light to dark grey, fine grain, massive fossiliferous sand stone. Core loss : 25.00 to 25.39 m			50°	ir	7	61	18				
26.00			W1-W2, soft to medium hard, light to greenish grey, fine grain, massive sand stone.			50°	ir	4	100	58				
27.00			W1-W2, soft to medium hard, light to dark grey, fine grain, massive sand stone. Core loss : 27.51 to 28.00 m			30° 50°	ir	5	67	27				
28.00							7							
28.50			W1, medium to strong hard, light grey to greenish grey, fine grain, massive sand stone. MB : 28.00 m			20° 50°	r	100	55					
29.00							6							
30.00														

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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: SANTA MAJHI

EAST DRILLING COMPANY (P) LTD.

BORE HOLE LOG

KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: DHT-6

COORDINATES: 3039334.844N, 602651.540Em

DRILLING MACHINE: Vol-35

DRILLING METHOD: ROTARY







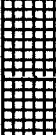

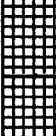
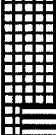

START DATE: 06/04/2002

COLLAR ELEVATION: 512.640 m

ELEVATION HOLE END: 452.640 m

LOCATION: KESARI KHOLA

INCLINATION: VERTICAL

			Description	D C P T			Description of Discontinuities							Core Recovery					kg/cm2
														RQD% 					
Depth, m	Barrel Size	Core Log		Blows per 15 cm			Water Level m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80	100	Laboratory
				0-15	15-30	30-45													
	NX		Initial 90cm is colluvium deposition of fine to coarse grain, brown sand. Bed rock started from 0.90m that is W2, light to greenish grey, fine grain sand stone.	60	20	-	1.15	-	30°	r	3	32	-						
1.00			W2-W3, medium hard, dark brown to greenish grey, fine grain sand stone.			18/80		Feo	30° 40°	lr	11	100	-						
2.00			W2-W3, medium hard, dark grey to greenish grey, fine grain, jointed sand stone. Core loss : 2.20 to 2.46 m.				Dry	Feo	40° 50°	lr	10	74	-						
3.00			W2-W3, medium hard, dark to greenish grey, fine grain, jointed sand stone. Core loss : 3.16 to 3.78 m.					Feo	30° 40°	lr	9	38	-						
4.00			W2, medium hard, purple to greenish grey, fine, fine grain, massive sand stone. Core loss : 4.89 to 5.00 m.					-	40°	lr	3	89	81						
5.00			W2, soft to medium hard, dark brown mud stone and fine grain, greenish grey sand stone.					-	30° 50°	lr	5	100	76						
5.70			W2, medium hard, dark grey to greenish grey, fine grain, massive sand stone. M.B : 6.00 m.				2.40	-	50°	lr		100	100						
6.00			W1-W3, medium hard, greenish grey, fine grain, massive sand stone.					-	50°	r	2								
6.35			Core loss : 6.35 to 6.65 m. MB : 6.76 m, 6.85m, 7.17m & 7.59m								1								
7.00			W1-W3, soft to medium hard, greenish grey, fine grain, massive sand stone. Core loss : 7.75 to 8.00 m.					-	30° 50°	lr	9	80	34						
7.75			W1-W2, medium hard, greenish grey, fine grain, massive sand stone Core loss : 9.00 to 9.69 m.					-	10° 40°	lr	5	31	10						
8.00																			
9.00																			
10.00																			

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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: SANTA MAJHI

KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILLING METHOD: ROTARY

INCLINATION: VERTICAL

B-A-94

EAST DRILLING COMPANY (P) LTD.

BORE HOLE LOG

KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: DHT-6

COORDINATES: 3039334.844N, 602651.540E

DRILLING MACHINE: Vol-35

DRILLING METHOD: ROTARY

START DATE: 06/04/2002

COLLAR ELEVATION: 512.640 m

ELEVATION HOLE END: 452.640 m

LOCATION: KESARI KHOLA

INCLINATION: VERTICAL

			Core Recovery										kg/cm2			
Depth, m	Barrel Size	Core Log	Description	Water Level m	Alteration	Orientation	Roughness	Joint/R cm	RQD%						Laboratory	
									REC%	RQD%	20	40	60	80		100
29.90																
	66		W1, strong hford, light to dark grey, fine grain, massive, fossiliferous sand stone Core loss : 31.05 to 31.14 m			50°	r	2	100	7						
31.00																
31.30																
			W1, medium to strong hard, light grey, fine grain, massive sand stone. Core loss : 31.30 to 31.39 m MB : 32.00 m & 32.48 m			30°	ir	4	94	91						
32.00																
32.80																
33.00																
			W1, soft to medium hard, light grey to greenish grey, fine grain, massive fossiliferous sand stone.			30° 50°	ir		100	59						
34.00																
34.30																
			W1, soft to medium hard, light to greenish grey, fine grain, massive fossiliferous sand stone			30° 50°	ir		100	69						
35.00																
35.80																
36.00																
			W1, soft, light grey to black, fine grain, massive sand stone with hard coal. Core loss : 36.03 to 36.68 m			50°	ir		54	22						
37.00																
37.20																
			W1-W2, medium hard, greenish grey, fine grain, massive sand stone. Core loss : 37.20 to 37.32 m			50°	ir	5	85	76						
38.00																
			W1-W2, soft to medium hard, greenish grey, fine grain, massive sand stone. Core loss : 38.07 to 38.20 m MB : 38.94 m & 39.00 m			50°	ir	4	89	70						
39.00																
39.20																
			W1-W3, soft to medium hard, greenish grey to brown, fine grain, massive sand stone with mud. Core loss : 39.20 to 39.36 m			40° 50°	ir	6	64	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: SANTA MAJHI

EAST DRILLING COMPANY (P) LTD.																		
BORE HOLE LOG																		
KULEKHANI-3 HYDROELECTRIC POWER PROJECT																		
DRILL HOLE NO.: DHT-6										START DATE: 06/04/2002								
COORDINATES: 3039334.844N, 602651.540Em										COLLAR ELEVATION: 512.640 m								
DRILLING MACHINE: Vol-35										ELEVATION HOLE END: 452.640 m								
DRILLING METHOD: ROTARY										LOCATION: KESARI KHOLA								
										INCLINATION: VERTICAL								
Depth, m	Barrel Size	Core Log	Description	Water Level m	Alteration	Orientation	Roughness	Joint/R cm	Core Recovery						kg/cm2	Laboratory		
									REC%	RQD%	20	40	60	80			100	
40.00	66mm		Core loss : 40.00 to 40.45 m	17			ir	5										
40.90			W1-W3, soft to medium hard, light to dark, greenish grey, fine grain, massive sand stone with mud and pebbles as clast						63	23								
			Core loss : 41.23 to 41.56 m & 41.86 to 42.10 m						6									
42.00																		
42.40			W1-W2, medium to strong hard, greenish grey, fine grain, massive sand stone.						3	94	88							
			Core loss : 43.81 to 43.90 m															
43.00									5									
43.90			W1-W3, soft to medium hard, light grey to greenish grey, fine grain, sand stone with pebbles as clast.						6	77	28							
			Core loss : 44.00 to 44.34 m															
45.00									4									
45.40			W1-W3, soft to strong hard, light grey to greenish grey, fine grain, massive sand stone.															
46.00			Core loss : 45.47 to 45.75 m						6	81	46							
46.90	Total core loss, conglomerate rock with pebble, the matrix material washed away during drilling.		0	0	0													
	Core loss : 46.90 to 48.00 m																	
48.00	W1, strong hard, grey to greenish pebbles		0	0	0													
	Core loss : 48.00 to 48.9 m																	
49.00	Total core loss		0	0	0													
	Core loss : 49.00 to 50.00 m																	
50.00				10.35														

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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: 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.: DHT-6

COORDINATES: 3039334.844N, 602651.540Em

DRILLING MACHINE: Vol-35

DRILLING METHOD: ROTARY



START DATE: 06/04/2002

COLLAR ELEVATION: 512.640 m

ELEVATION HOLE END: 452.640 m

LOCATION: KESARI KHOLA

INCLINATION: VERTICAL

										INCLINATION: VERTICAL		Core Recovery																			
												RQD%						kg/cm2													
																															
Depth, m	Barrel Size	Core Log	Description	Water Level m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80	100	Laboratory															
50.00	BX		Total core loss	10.25																											
			Core loss : 50.00 to 51.00 m														0														
51.00			W2-W3, soft to medium hard, greenish grey, fine grain, massive sand stone. Core loss : 51.00 to 51.73 m														27	0													
			W2-W3, soft to medium hard, greenish grey, fine grain, massive sand stone Core loss : 52.00 to 52.70 m														30	13													
52.00			W1-W2, medium hard, greenish grey, fine grain, massive sand stone. Core loss : 53.05 to 53.19 m & 53.48 to 53.58 m														68	13													
			W1-W2, medium hard, greenish grey fine grain, massive fossiliferous sand stone. Core loss : 54.00 to 54.58 m														54	0													
53.00			W1-W2, medium to strong hard, light to greenish grey, fine grain, massive sand stone. Core loss : 55.00 to 55.34 m														66	10													
			W1, strong to medium hard, light grey to greenish grey, fine grain, massive sand stone. Core loss : 56.00 to 56.33 m														67	45													
53.75			W1-W2, medium to strong hard, light grey, fine grain, massive sand stone Core loss : 57.00 to 57.70 m														30	13													
54.00			W1-W2, medium to strong hard, greenish grey to light grey, fine grain, massive sand stone. Core loss : 58.00 to 58.56 m														44	13													
			W3, soft to medium hard, greenish grey, fine grain sand stone Core loss : 59.00 to 59.78 m														22	0													
55.00																															
56.00																															
57.00																															
58.00																															
59.00																															
60.00																															

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.: BD-4 COORDINATES: 3040889.416 N, 602335.992 E DRILLING MACHINE: KOKEN DRILLING METHOD: ROTARY					START DATE: 10/04/2002 COLLAR ELEVATION: 562.083m ELEVATION HOLE END: 512.083 m LOCATION: YANGRANG KHOLA INCLINATION: VERTICAL										
Depth, m	Barrel Size	Core Log	Description	Water Level m	Alteration	Orientation	Roughness	Joint/R cm	Core Recovery					Results	
									REC%	RQD%	20	40	60	80	100
0.00	76mm		Colluvium deposition of dark grey, medium grain sand, mud and pebble cobble size phyllite.						100	0					
1.00			Colluvium deposition of medium to coarse grain, greenish grey sand and cobble, boulder size, dark grey phyllite.	1.35					100	0					
2.00			Initially 11 cm of run is cobble size, dark grey to greenish phyllite. From 2.11 m bed rock is observed, W1, strong hard light to dark grey, fine grain, laminated light to dark grey, fine grain, laminated and highly jointed phyllite		30° 50°	ir	9	100	0						
3.00			W1, strong hard, dark grey, fine grain laminated, highly jointed and fragmented phyllite.		30° 50°	ir	10	100	0						
4.00			W1, strong hard, dark grey, fine grain, laminated, moderately jointed phyllite		20° 50°	ir	8	100	20						
5.00			W1, strong hard, dark grey, fine grain, laminated dolomitic phyllite.		20° 50°	ir	4	100	74						
6.00			W1, strong hard, dark grey, fine grain, laminated dolomitic phyllite		30° 50°	ir	6	100	73						
7.00			W1, strong hard, dark grey, fine grain, laminated dolomitic phyllite.		20° 50°	ir	6	100	46						
8.00			W1, strong hard, dark grey, fine grain, laminated dolomitic phyllite MB : 8.98 m.		30° 50°	ir	5	100	58						
9.00			W1, strong hard, dark grey, fine grain, laminated dolomitic phyllite. MB : 9.29 m, 9.59 m and 9.85 m		30° 50°	ir	5	100	82						
10.00															

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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: SANJEEV POKHAREL

EAST DRILLING COMPANY (P) LTD.

BORE HOLE LOG

KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: BD-4

COORDINATES: 3040889.416 N, 602335.992 E

DRILLING MACHINE: KOKEN

DRILLING METHOD: ROTARY

START DATE: 10/04/2002

COLLAR ELEVATION: 562.083m

ELEVATION HOLE END: 512.083 m

LOCATION: YANGRANG KHOLA

INCLINATION: VERTICAL

										Core Recover					Results			
Depth, m	Barrel Size	Core Log	Description	Water Level m.	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%					LU	kg/cm2		
										RQD%	20	40	60	80	100	Permeability	Laboratory	
10.00	76mm		W1, strong hard, dark grey, fine grain, laminated dolomitic phyllite Core loss : 10.56 to 11.00 m MB : 10.06 m and 10.32 m	3.5		30° 50°	ir	5	56	0								
11.00			W1, strong hard, dark grey to greenish grey, fine grain, laminated phyllite and dolomitic phyllite			30° 50°	ir	6	100	40								
12.00			W1, strong hard, dark grey, fine grain, laminated, jointed and fragmented dolomitic phyllite.			30° 50°	ir	10	100	24								
13.00			W1, strong hard, dark grey, fine grain, laminated dolomaic phyllite			30° 50°	ir	6	100	63								
14.00			W1, strong hard, dark gtey, fine grain, laminated, jointed and fragmented dolomitic phyllite.			30° 50°	ir	8	100	51								
15.00			W1, strong hard, dark grey, fine grain, laminated, fragmented dolomtic phyllite.			20° 50°	ir	9	100	12								
16.00			W1, strong hard, dark grey, fine grain, laminated, highly jointed and fragmented dolomitic phyllite with Quartz vein.			10° 50°	ir	12	100	0								
17.00			W1, strong hard, dark grey to greenish grey, fine grain, laminated, highly jointed and fragmented dolomitic phyllite.			10° 50°	ir	9	100	0								
18.00			W1, strong hard, dark grey, fine grain, laminated, highly jointed and fractured dolomitic phyllite Core loss : 18.58 to 19.00 m		9.3	5° 50°	ir	8	58	0								
19.00			W1, strong hard, white to dark grey, fine grain, laminated, highly jointed and fragmented phyllitic dolomite with Quartz vein.			30° 50°	ir	9	100	0								
20.00																		

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:SANJEEV POKHAREL

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EAST DRILLING COMPANY (P) LTD.

BORE HOLE LOG

KULEKHANI-3 HYDROELECTRIC POWER PROJECT

DRILL HOLE NO.: BD-4

COORDINATES: 3040889.416 N, 602335.992 E

DRILLING MACHINE: KOKEN

DRILLING METHOD: ROTARY

START DATE: 10/04/2002

COLLAR ELEVATION: 562.083m

ELEVATION HOLE END: 512.083 m

LOCATION: YANGRANG KHOLA

INCLINATION: VERTICAL

RECOVERY: VERTICAL																	Results	
CoreRecovery																	LU	kg/cm2
Depth, m	Barrel Size	Core Log	Description	Water Level m	Alteration	Orientation	Roughness	Joint/R cm	REC%	RQD%	20	40	60	80	100	Permeability	Laboratory	
20.00	76mm		W1, strong hard, light to dark grey, fine grain, laminated, highly jointed and fragmented dolomite and phyllitic dolomite with mica parting.	10		30 ^u 50 ^u	ir	12	100	0								
21.00			W1, strong hard, dark grey, fine grain, laminated, highly jointed and fractured dolomitic phyllite with mica parting. Core loss : 21.48 to 22.00 m			15 ^u 30 ^u 60 ^u	ir	9	48	0								
22.00			W1, strong hard, light grey to greenish fine grain, highly jointed and fragmented dolomite Core loss : 22.66 to 23.00 m			50 ^u	ir	4	66	0								
23.00			W1, strong hard, light grey to dark green, fine grain, jointed and fractured dolomite. Core loss : 23.00 to 23.10 m		FeS	20 ^u 50 ^u	ir	11	90	24								
24.00			W1, strong hard, light grey to dark green, fine grain, highly jointed and fractured dolomite		FeS	20 ^u 50 ^u	ir	14	100	0								
25.00			W1, strong hard, dark grey to dark green, fine grain, highly jointed and fragmented calcareous phyllitic dolomite with pyrite and feldspar		FeS	20 ^u 50 ^u	ir	11	100	0								
26.00	66mm		W1, strong hard, dark green, fine grain, jointed and fragmented calcareous phyllitic dolomite with pyrite and Quartz vein. Core loss : 26.13 to 26.51 m		FeS	60 ^u	ir	6	62	10								
27.00			W1, strong hard, dark green, fine grain jointed calcareous phyllitic dolomite with pyrite and Quartz vein Core loss : 27.45 to 28.00 m		FeS	50 ^u	ir	7	45	24								
28.00			W1, strong hard, dark green to grey, fine grain, highly jointed and fragmented phyllitic dolomite with Quartz vein. Core loss : 28.00 to 28.44 m		FeS	50 ^u	ir	3	56	0								
29.00			W1, strong hard, light grey to greenish fine grain, highly jointed and fragmented phyllitic dolomite with Quartz vein and pyrite.		11	FeS	50 ^u 50 ^u	ir	10	100	0							
30.00																		

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Drilled by: SANJEEV

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