

DRILLING CORE LOG

Hole No. TP - 2 ②

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 2 of 12

Location 187.505.46E

Depth of Bedrock m

Elevation 941.695 m

Bore Hole Dia mm

Depth of Hole 351.57 m

Direction

Type of Drill Machine

Inclination

Capacity of Pump l/min

Operator

Supervisor

Depth (m)	(Thickness) (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status		Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	p - q curve	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
31													
32													
33	908.86		fels gn				20 40 60 80%						Inclined joint 20° at 27.85m with iron stain. Vertical tight joints 80°-90° at 27.85-27.98m. Inclined, chloritized joints 10°-20° at 28.22m. Vertical joints 80°-90° at 28.75-29.0, 29.03-29.25, 30.17-30.37, 31.54-33.84m, chloritized and coated with iron stain.
34													
35	906.06												Interbeds of biotite gneiss-felsic gneiss. Including large garnet grains up to 35.20m. Inclined foliation joints 50°-60°, chloritized. Vertical joint 60° at 34.18-34.25m. Vertical joint 80° with clay film at 35.56-35.76m.
36													
37													Interbeds of biotite gneiss-felsic gneiss in some portions. Inclined, chloritized joints 40°, 60° at 35.83m. Vertical foliation chloritized joints at 35.88-36.05, 36.20-36.52, 37.40-37.70, 37.91-38.10 (with pyrite and calco pyrkt), 38.24-38.41, and 38.78-39.10m (with slickenside and striations). From
38													Vertical foliation joints at intervals of 5m 25m/m at 40.54-41.04m.
39													
40	900.66												
41													
42													Generally variation of rock facies is very prominent, interbeds of acidic charnockite and mafic band.
43			inter chnk										Vertical chloritized joints 70°-80° at 41.85-42.08m with iron stains. Vertical foliation joints 80°-90° at 42.24-42.70m, some joints are chloritized and coated with iron stain. Vertical foliation joints at 45.01-45.18m, oxidized and discolored.
44													
45	896.52												
46	895.98												Fresh intermediate charnockite.
47													Including many garnet grains in the core. Interbeds of intermediate charnockite in some sections. Vertical foliation joints, chloritized, slightly altered, at intervals of 3cm at 45.86-46.21, 48.86-49.26, 49.44-49.68, 49.73-49.97m. Vertical foliation joints at intervals of 15-30m/m.
48			fels gn										
49													
50													
51	891.03												
52													Interbeds of felsic gneiss-biotite gneiss and mafic band in some portions. Vertical foliation cracks at 51.86-52.38m, chloritized at intervals of 15m/m. Inclined joints 40°-45°, chloritized and coated with iron stain.
53													Including many garnet grains in the core below 59.33m. Vertical foliation joint 80° with clay film at 58.31-59.16m, at intervals of 50m.
54													
55													
56			inter chnk										
57													
58													
59													
60													

DRILLING CORE LOG

Hole No. TP-2 ③

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 3 of 12

Location Talawakelle Power Station
204,320.21N
187,505.46E

Depth of Bedrock m Bare Hole Dia mm

Depth of Hole 351.57 m

Elevation 941.695 m

Operator

Direction

Drill Machine

Inclination

Capacity of Pump l/min

Supervisor

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status			Description	Date Drilled
					Weathering	Hardness	Rock Quality Designation	P (kg/cm ²)	q (l/m ² ·min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)	Bit Type		
61														
62														
63														
64														
65														
66														
67														
68														
69			inter chnk											
70														
71														
72	869.74													
73	868.65													
74														
75														
76	866.02													
77	864.47													
78														
79	862.50		fels gn											
80														
81														
82			inter chnk											
83														
84	857.45													
85														
86														
87			fels gn											
88														
89														
90	851.08													

DRILLING CORE LOG

Hole No. TP - 2 (4)

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 4 of 12

Location Talawakelle Power Station
204, 320.21N
187, 505.46E

Depth of Bedrock m Bore Hole Dia mm

Depth of Hole 351.57 m

Elevation 941.695 m

Operator

Direction Core Recovery %
 Incline Undergrnd %
 Water Table m

Type of Drill Machine

Capacity of Pump l/min

Supervisor

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Color	Weathering	Hardness	Core Characteristics		Permeability Test		Drilling Status			Description	Date Drilled
								Rock Quality Designation	20 40 60 80%	P (kg/cm ²)	q (l/m ² ·min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)	Bit Type		
91																
92																
93			inter chnk			Fresh										
94																
95	946.62															
96	945.60		calc-gn													
97			inter chnk													
98	943.50		fels gn													
99	943.31 942.95		bio-gn													
100																
101																
102																
103			inter chnk													
104																
105																
106																
107	835.16															
108																
109																
110																
111																
112																
113																
114																
115																
116																
117																
118																
119																
120																

DRILLING CORE LOG

Hole No. TP-2 ⑤

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project
Talawakelle Power Station
204,320,21N
187,505.46E

Sheet No. 5 of 12

Location 187,505.46E

Depth of Bedrock m

Bore Hole Dia mm

Depth of Hole 351.57 m

Elevation 941.695 m

Type of

Operator

Direction

Drill Machine

Supervisor

Inclination

Capacity of Pump l/min

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Color	Weathering	Core Characteristics		Permeability Test		Drilling Status		Description	Date Drilled
							Hardness	Rock Quality Designation	p - q curve	Lugeon Value	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
121	820.53		fels gn				20 40 60 80%							
122			inter chnk											
123	818.26		bio-gn											
124	817.66		inter chnk											
125			inter chnk											
126	815.40		fels gn											
127	814.78		bio-gn											
128			bio-gn											
129	812.77		inter chnk											
130	811.68		bio-gn											
131	810.87		fels gn											
132			qtzite											
133														
134														
135														
136														
137			fels gn											
138														
139														
140														
141	800.40													
142														
143														
144			bio-gn											
145														
146	795.30													
147	794.48		fels gn											
148	793.46		inter chnk											
149														
150														

DRILLING CORE LOG

Hole No. TP - 2 ⑥

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project
Talawakelle Power Station
204,320.21N

Sheet No. 6 of 12

Location 187,505.46E

Depth of Bedrock m Bore Hole Dia mm

Depth of Hole 351.57 m

Elevation 941.695 m

Core Recovery %

Operator

Direction

Underground

Supervisor

Inclination

Water Table m

Capacity of Pump l/min

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status			Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	P (kg/cm ²)	q (l/m ² -min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
151	790.55		bio-gn				20 40 60 80%						Vertical joint 80°-85° from 149.67 to 149.72m, chloritized. Vertical, foliation hair cracks in some portions.	
152													Generally variation of rock facies is very prominent. Interbeds of felsic gneiss-biotite gneiss in some sections.	
153													Vertical foliation joints and hair cracks at 154.20-154.27m.	
154			inter chnk										Vertical foliation joints at intervals of 1-3m/m at 154.44-154.82m.	
155													Vertical joints at 155.10-155.18m. Vertical joints at 156.03-156.38m. Vertical joints at intervals, chloritized.	
156	785.32													
157			calc-gn										Green to dark green in colour, main components are mafic minerals, garnet, calcite, partially comprising biotite megacrysts. Vertical foliation joints and hair cracks at 156.53-157.04m.	
158	785.44												Vertical joint with clay film and pyrite specks.	
159	783.17												Main components, biotite, hornblende, plagioclase, quartz, partially granitic texture 160.64-160.85m vertical foliation joints with clay film and calcite vein. Vertical foliation hair cracks in some sections.	
160			calc-gn										Interbeds of felsic gneiss biotite gneiss and quartzite in some sections.	
161													Vertical chloritized joints 85°-90° with clay film and specks of calcopyrite and pyrite at 162.29-163.17m.	
162	780.17												Vertical foliation hair cracks in some portions.	
163			bio-gn										Generally variation of rock facies is very prominent.	
164													Interbeds of felsic gneiss in some sections. Vertical tight joint 80° at 164.86-164.93m. Vertical joint and hair cracks, partially with clay film.	
165	776.94												Vertical foliation joints and hair cracks at intervals of 4-6m/m at 165.86-166.19m.	
166													Vertical foliation joints and hair cracks at 166.41-166.60m, chloritized.	
167													Vertical foliation joints at intervals of 3-5cm at 167.47-168.71m, chloritized and noted pyrite, calcopyrite and calcite vein, partially slickensided.	
168			inter chnk										Vertical foliation joints at intervals of 3-20m/m at 169.15-169.81m.	
169													Vertical joint at intervals of 5-10m/m at 171.07-171.57m.	
170														
171														
172														
173	768.60												Comprising biotite and pyroxene. Mafic minerals rich at 174.40-174.45m. Vertical hair cracks at 173.44-173.73m.	
174	767.20		fels gn											
175													Interbeds of biotite gneiss in some portions. No prominent joints on the core at 174.50-176.03m, but vertical hair cracks in some sections.	
176													Vertical foliation joints at intervals of 3-7m/m at 177.07-177.65m.	
177													Vertical and irregular joint at 177.66-177.94m. Inclined slickensided joint 20° at 177.76m.	
178			inter chnk										Horizontal slickensided joint 10° at 177.93m. Vertical open joints at intervals of 10-50m/m at 179.54-180.17m.	
179														
180														

DRILLING CORE LOG

Hole No. TP - 2 ⑦

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project
Talawakelle Power Station
204,320.21N

Sheet No. 7 of 12

Location 187,505.46E

Depth of Bedrock m

Bore Hole Dia mm
 Type of Drill Machine

Depth of Hole 351.57 m

Elevation 941.695 m

Core Recovery %

Capacity of Pump l/min

Operator

Direction

Underground

Supervisor

Inclination m

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status			Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	P (kg/cm ²)	q (l/m ² ·min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
181														
182														
183														
184														
185														
186														
187														
188														
189														
190			inter chnk											
191														
192														
193														
194														
195	747.11													
196														
197														
198														
199			fels chnk											
200	741.86													
201	740.63		meta chnk											
202														
203														
204														
205														
206			inter chnk											
207														
208														
209	732.17													
210														

DRILLING CORE LOG

Hole No. TP - 2 (8)

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 8 of 12

Location Talawakelle Power Station
204,320.21N
187,505.46E

Depth of Bedrock m

Bore Hole Dia mm

Depth of Hole 351.57 m

Elevation 941.695 m

Core Recovery %

Type of Drill Machine

Operator

Direction

Underground Water Table m

Capacity of Pump l/min

Supervisor

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status			Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	P (kg/cm ²)	q (l/m ² min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
211														
212														
213														
214			fels gn											
215	726.24													
216	725.35		inter chnk											
217														
218			fels gn											
219	732.17													
220														
221			inter chnk											
222														
223														
224	718.35													
225														
226														
227														
228														
229														
230			fels gn											
231														
232														
233														
234														
235														
236														
237														
238														
239														
240														

DRILLING CORE LOG

Hole No. TP - 2 ②

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 9 of 12

Location Talawakelle Power Station
204,320.21N
187,505.46E

Depth of Bedrock m

Bore Hole Dia mm

Depth of Hole 351.57 m

Elevation 941.695 m

Core Recovery %

Operator

Direction

Underground

Type of Drill Machine

Supervisor

Inclination m

Capacity of Pump l/min

Depth (m)	Geological Symbol	Geology	Rock Quality Classifications	Color	Weathering	Hardness	Core Characteristics		Permeability Test		Drilling Status		Description	Date Drilled
							Rock Quality Designation	Designation Value	P (kg/cm ²)	q (l/m ² min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
241	qtz	qtz	20										Comprising many garnet grains. Interbeds of quartzite in some sections. Vertical and irregular hair cracks at 240.48~241.08m, 241.08~241.41m, and 241.47~241.71m. Vertical joint at 241.95~242.05m, slightly weathered. Vertical foliation joints at 242.35~242.50m. Vertical foliation joints at intervals of 15~20m/m at 243.90~244.40m. Vertical joint at 244.40~245.04m, slightly altered. Vertical joints at intervals of 10m/m at 245.21~236.30m. Inclined chloritized joint at 245.43m with calcite vein. Inclined joint 45° at 245.59m with a little iron stains.	
242			40											
243			60											
244			80											
245														
246														
247														
248														
249														
250														
251														
252														
253														
254														
255														
256														
257														
258														
259														
260														
261														
262														
263														
264														
265														
266														
267														
268														
269														

DRILLING CORE LOG

Hole No. TP - 2 ⑩

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 10 of 12

Talavakelle Power Station

204,320.21N

187,505.46E

Location 187,505.46E

Depth of Bedrock m

Bore Hole Dia mm

Depth of Hole 351.57 m

Elevation 941.695 m

Core Recovery %

Type of Drill Machine

Operator

Underground Water Table

Capacity of Pump l/min

Supervisor

Depth (m)	(Thickness) (m)	Geological Symbol	Geology	Rock Quality Classifications	Color	Weathering	Core Characteristics		Permeability Test		Drilling Status		Description	Date Drilled
							Rock Quality Designation	Hardness	P (kg/cm ²)	q (l/m ² ·min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
271							20 40 60 80%							
272														
273														
274			fels gn											
275	667.20													
276														
277														
278			inter chnk			Fresh								
279														
280	661.98													
281														
282														
283			fels gn											
284														
285														
286	655.88													
287			inter chnk											
288	653.68													
289	652.91		fels gn											
290						Fresh								
291														
292														
293														
294			inter chnk											
295														
296														
297														
298														
299														
300														

DRILLING CORE LOG

Hole No. TP - 2 (1)

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 11 of 12

Location Palawakelle Power Station

Depth of Hole 351.75 m

Elevation 941.695 m

Bore Hole Dia mm

Operator

Depth of Bedrock m

Type of Drill Machine

Supervisor

Core Recovery %

Capacity of Pump l/min

Underground Water Table

Inclination

Depth (m)	(Thickness) (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status		Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	p - q curve	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
301	640.45		inter chnk										
302	639.79		fels gn										
303			inter chnk										
304	637.29												
305													
306			fels gn										
307	634.75		inter chnk										
308	633.75		fels gn										
309	633.12												
310			inter chnk										
311	630.33												
312	629.56		bio-gn										
313													
314													
315													
316													
317													
318													
319			inter chnk										
320	614.60												
321	614.28		calc-gn										
322													
323													
324													
325													
326													
327													
328													
329													
330													

DRILLING CORE LOG

Hole No. TP - 2 (2)

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 12 of 12

Location Talawakelle Power Station
264, 265, 266 N
784, 20.24N
187, 505.46E

Depth of Bedrock _____ m Bore Hole Dia _____ mm
Type of Drill Machine _____

Depth of Hole 351.57 m

Elevation 941.695 m

Operator _____

Direction _____
Inclination _____

Supervisor _____

Depth (m)	(Thickness) Geological Symbol	Geology	Rock Quality Classifications	Color	Weathering	Hardness	Rock Quality Designation	Permeability Test		Drilling Status		Description	Date Drilled
								p - q curve p (kg/cm ²) q (l/m ² ·min)	Lugeon Value	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
331							20 40 60 80%						
332													
333		inter chnk											
334													
335													
336													
337													
338													
339													
340													
341													
342													
343													
344													
345													
346													
347													
348													
349													
350													
351													
352													
353													
354													
355													
356													
357													
358													
359													
360													

There are no prominent cracks at 331.95~334.81m.

Generally variation of rock facies is very prominent; main component is marble, garnet, biotite, other mafic grains.
Impure crystalline lime stone.
Vertical joint at 336.065~336.78m.
Vertical foliation joints 80°, at intervals of 1~4m/m at 338.97~339.23m.
No prominent joints at 339.23~340.16m.
Micaeous band at 342.89~343.06m.
Open joint 20°, slightly altered at 342.90m.
No prominent joints except as above at 340.22~343.25m.
Mafic minerals rich at 344.58~344.81m.
Comprised of large mafic grains at 348.24~349.50m.
Porous at 350.33~350.43m.
Inclined joint 60° at 250.44m.
No joints and hair cracks except as above at 343.25~351.57m.

Fresh

DRILLING CORE LOG

Hole No. TP - 2' ①

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 1 of 2

Location Talawakelle Power Station
204°46'7.32N
187°30'3.85E

Depth of Bedrock _____ m

Bore Hole Dia _____ mm

Depth of Hole 50.87 m

Operator _____

Type of Drill Machine _____

Supervisor _____

Capacity of Pump _____ l/min

Elevation 800.722 m

Core Recovery _____ %

Underground Water Table _____ m

Direction _____

Inclination _____

Depth (m)	(Thickness) (Elevation)	Geological Symbol	Geology	Rock Quality Classifications	Color	Weathering	Core Characteristics		Permeability Test		Drilling Status		Description	Date Drilled
							Hardness	Rock Quality Designation	p - q curve	Lugeon Value	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
1	799.72	Soil			yel-brn									
2														
3														
4					red-brn to yel-brn									
5			Talus											
6														
7														
8														
9	792.09 791.79					Wkly-wd								
10														
11														
12														
13														
14			inter chnk			Fresh								
15														
16														
17														
18														
19	782.25													
20	781.57 781.32		qtzite bio-gn			Wkly-wd								
21														
22														
23														
24			inter chnk			Fresh								
25														
26														
27														
28	772.96													
29	771.46		bio-gn											
30														

DRILLING CORE LOG

Hole No. TP - 2/②

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project
Talawakelle Power Station

Sheet No. 2 of 2

Location 204, 467.82N
187, 303.85E

Depth of Bedrock m Bore Hole Dia mm

Depth of Hole 50.87 m

Elevation 800.722 m

Core Recovery %

Operator

Direction

Underground

Supervisor

Inclination

Water Table m

Capacity of Pump l/min

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Color	Weathering	Core Characteristics		Permeability Test		Drilling Status		Description	Date Drilled
							Hardness	Rock Quality Designation	P (kg/cm ²)	q (l/m ² ·min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
31							20 40 60 80%							
32														
33			inter chnk											
34														
35														
36														
37														
38	763.06		bio-gm			Fresh								
39	761.70		inter chnk											
40														
41	760.27		bio-gm											
42	759.83													
43														
44														
45			inter chnk											
46														
47														
48														
49														
50														
51	749.85													
52														
53														
54														
55														
56														
57														
58														
59														
60														

DRILLING CORE LOG

Hole No. TC - 2.2'①

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project
Talawakelle Surge Chamber

Sheet No. 1 of 4

Location 187.991.91E

Depth of Bedrock m

Bore Hole Dia mm

Depth of Hole 100.51 m

Elevation 1243.015 m

Core Recovery %

Type of Drill Machine

Operator

Direction Inclination

Underground Water Table

Supervisor

Depth (m)	(Thickness) Elevation	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status			Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	P (kg/cm ²)	q (l/m ² ·min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
0														
6.1257.17			Talus										Yellowish brown, gravelly soil, with highly weathered rock pieces from 0.0 to 1.85m. Washed core from 1.85 to 5.25m. Yellowish brown, sandy-silty soil.	
7.1234.87			Talus (Boul dex)										Big boulder, weathered to highly weathered rock, garnetiferous gneiss, steep foliation 75°.	
8.1234.87			Talus										From 8.15 to 18.40m, washed core, decomposed rock with weathered gravels Ø5~22.0m, weathered mica rich. From 18.40 to 22.00m, washed core. Weathered core 150m in length at 20.96~22.0m. Weathered mica rich at 18.40~20.98m.	
22.1221.02													Washed core quartz rich from 22.0 to 25.96m. Crack plane has iron stain and discoloured at 25.96m.	
26.1217.06														
27.1216.44													Slightly weathered to fresh. Intermediate charnockite, main components are quartz, feldspar, pyroxene and garnet. Less garnet from 26.58 to 34.31m. Inclined foliation joint 15° 30' at 29.56m (slightly altered), 30.10 (chloritized). Horizontal foliation chloritized joint 5° at 32.00m.	

DRILLING CORE LOG

Hole No. TC-2.2' ②

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project
Talawakelle Surge Chamber

Sheet No. 2 of 2

Location 187,991.91E

Depth of Bedrock m

Bore Hole Dia mm

Depth of Hole 100.51 m

Elevation 1243.015 m

Core Recovery %

Type of Drill Machine

Operator

Direction

Underground Water Table m

Capacity of Pump l/min

Supervisor

Depth (m)	(Thickness) (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status			Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	P (kg/cm ²)	q (l/m ² ·min)	p-q curve	Lugeon Value		
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60														

Inclined chloritized joint 60° at 31.12m.
 From 34.31 to 39.13m, more garnets.
 Horizontal foliation joints, slightly altered, at 34.99, 34.66m, 30.14m.
 Inclined fractured joint 60° at 34.56m.
 Subvertical joints 75° at 41.00 (slickensided, chloritized), 41.32 (fractured).
 Inclined fractured joint 50° at 41.50m.
 Inclined fractured joint 50° at 41.50m.
 Below 391.3m, less garnet.
 Horizontal foliation joint 5° at 43.39m, slightly altered.
 Inclined fractured joint at 44.80m.
 Vertical joints 75°-80° at 46.39, 46.89 (chloritized, slickensided), 48.95, 49.32 (chloritized).
 Inclined joints 45°, 56° at 44.80 (fractured), 48.17 (chloritized).
 Horizontal foliation joints 5°, slightly altered, at 53.68, 55.22, 56.24, 59.02, 59.98, 60.85, 61.32, 66.76, 66.86m.
 Inclined chloritized joints at 63.00 (with slickenside) and 65.22m.
 Vertical joints 80°, chloritized, slickensided, at 65.32, 65.86m.

DRILLING CORE LOG

Hole No. TC - 2.2' 3

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project
Talawakelle Surge Chamber
 203,996.94N
 187,991.91E

Sheet No. 3 of 4

Location _____ Depth of Bedrock m Bore Hole Dia mm Depth of Hole 100.51 m

Elevation 1243.015 m Core Recovery % Operator _____

Direction _____ Underground _____ Type of Drill Machine _____ Supervisor _____

Inclination _____ Water Table _____ Capacity of Pump _____ l/min

Depth (m)	(Thickness) (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status			Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	p - q curve	Infiltrate Water Vol.	Loss Water Vol. (l/min)	Bit Type		
61														
62														
63														
64														
65			Inter chunk											
66														
67														
68														
69														
70														
71														
72														
73														
74														
75														
76														
77														
78														
79														
80														
81														
82														
83														
84														
85														
86														
87														
88														
89														
90														

DRILLING CORE LOG

Hole No. TS - 1 ③

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 3 of 5

Location Talawakelle Penstock
204.149.03N
187.733.94E

Depth of Bedrock m Bore Hole Dia mm Depth of Hole 121.11 m

Elevation 1024.046 m Core Recovery % Operator

Direction Undergound Water Table m/min Supervisor

Depth (m)	Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status		Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	p - q curve P (kg/cm) q (l/m·min)	Infiltrate Water Vol. Loss Water Vol. (l/min)	Bit Type		
61													
62													
63													
64													
65													
66			inter chnk										
67													
68													
69													
70													
71													
72													
73													
74													
75	946.77		bio- gn										
76	947.78		inter chnk										
77			inter chnk										
78	945.72												
79													
80													
81													
82													
83			bio- gn										
84													
85													
86													
87	936.56												
88													
89	934.72		inter chnk										
90													

DRILLING CORE LOG

Hole No. **TS - 1 (4)**

Name of Project **Feasibility Study for Upper Kotmale Hydroelectric Power Development Project**

Sheet No. **4 of 5**

Location **Kalawakelle Penstock
204,149.03N
187,733.94E**

Depth of Bedrock **mm** Bore Hole Dia **mm**

Depth of Hole **121.11 m**

Elevation **1024.046 m** Core Recovery **%** Type of Drill Machine **I/min**

Operator

Direction **Underground** Water Table **m** Capacity of Pump **l/min** Supervisor

Depth (m)	(Thickness) Elevation (m)	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status		Description	Date Drilled
					Weathering	Hardness	Rock Quality Designation	P (kg/cm)	q (l/m·min)	Infiltrate Water Vol.	Loss Water Vol. (l/min)		
91													
92													
93													
94													
95			bio-gn										
96													
97													
98													
99													
100	924.32			Fresh									
101													
102			inter chnk										
103													
104	920.10												
105			bio-gn										
106			inter chnk										
107	917.51												
108													
109													
110													
111			inter chnk										
112													
113													
114				Fresh									
115	908.99												
116			fels gn										
117	906.93												
118													
119			inter chnk										

DRILLING CORE LOG

Hole No. TS - 1 (5)

Name of Project Feasibility Study for Upper Kotmale Hydroelectric Power Development Project

Sheet No. 5 of 5

Talawakelle Penstock

Location 187.733.94E

Depth of Bedrock m

Bore Hole Dia mm

Depth of Hole 121.11 m

Elevation 1024.046 m

Type of Drill Machine

Operator

Direction

Core Recovery %

Capacity of Pump l/min

Supervisor

Depth (m)	(Thickness) Elevation	Geological Symbol	Geology	Rock Quality Classifications	Core Characteristics			Permeability Test		Drilling Status		Description	Date Drilled
					Color	Weathering	Hardness	Rock Quality Designation	p - q curve	Lugeon Value	Infiltrate Water Vol.		
121	902.94												
122													
123													
124													
125													
126													
127													
128													
129													
130													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
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15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

JICA