

PROJECT - SIVOK RANGPO NEW BG RAILWAY LINE PROJECT	CO-ORDINATE
LOCATION - KALIJHORA	ANGLE WITH
STRUCTURE - BRIDGE NO. - 03/P2	BEARING OF
CLIENT - IRCON INTERNATIONAL LIMITED	DEPTH OF H
DRILLING AGENCY - OM GEO CONSTRUCTION PVT. LTD.	PERIOD OF E
GROUND ELEVATION 182.472	TYPE OF COI
	LOGGED BY

	DEPTH		LITHOLOGY		SIZE OF CORE PIECES		
elevation	from	To	Description	Log	<10mm	10 to 25mm	25 to 75mm
182.47	0	1	<u>BROWN SOIL MIXED WITH PEFLES</u>				
181.47	1	2					
180.47	2	3					10
179.47	3	4					6
178.47	4	5				15	12
177.47	5	6	<u>QUARTZITIC PHYLLITE HIGHLY FRACTURED LIGHT GREYISH IN COLOR</u>			7	11
176.47	6	7				15	17
175.47	7	8				12	10
174.47	8	9				5	9
173.47	9	10				10	14
172.47	10	11	<u>PHYLLITE, QUARTZATIC PHYLLITE HIGHLY FRACTURED GREYISH COLOR</u>				11
171.47	11	12				5	9
170.47	12	13					13
169.47	13	14				5	6
168.47	14	15				10	15
167.47	15	16	<u>QUARTZITIC PHYLLITE WITH CARBONACIEOUS SHALE</u>			10	16
166.47	16	17				14	16
165.47	17	18				10	15
164.47	18	19				3	22
163.47	19	20				10	8
162.47	20	21	<u>QUARTZATIC PHYLLITE GREYISH IN COLOR</u>			3	7
161.47	21	22				20	9
160.47	22	23				10	6
159.47	23	24					2
158.47	24	25				5	6
157.47	25	26	<u>QUARTZATIC PHYLLITE MODERATELY TO HIGHLY WHETHERED</u>			30	7
156.47	26	27				20	10
155.47	27	28				10	3
154.47	28	29				10	5
153.47	29	30					5
152.47	30	31	<u>PHYLLITE INFILLING WITH CARBONACIEOUS SHALE</u>			0	3

151.47	31	32	<u>CARBONACIEOUS SHALE</u> FRACTURED MODERATELY TO HIGHLY WHETHERED			20	6
150.47	32	33				12	7
149.47	33	34					1
148.47	34	35					2
147.47	35	36				12	1
146.47	36	37	<u>CARBONACIEOUS SHALE</u>			17	6
145.92	37	37.55					
145.47	37.55	38					
144.47	38	39	<u>CARBONACIEOUS SHALE</u> <u>QUARTZATIC PHYLLITE</u> <u>SLIGHTLY TO</u> MODERATELY WHETHERED			6	2
143.92	39	39.55				4	1
143.47	39.55	40					
142.47	40	41				6	5
141.47	41	42				4	2
140.47	42	43				5	3
139.47	43	44				8	4
138.47	44	45				2	7
137.47	45	46	QUARTZATIC PHYLLITE SLIGHTLY TO MODERATELY WHETHERED CARBONACIEOUS SHALE				1
136.47	46	47					7
135.47	47	48				10	10
133.92	48	49.5				8	12
132.42	49.5	51				10	9
130.92	51	52.5				8	5

TES - E644155.989,N2978856.100
H HORIZONTAL - 90
F HOLE - VERTICAL
OLE - 52.50m
EXCUTION - 03/08/2021 - 22/08/2021
RE BARREL - TRIPPLE TUBE

		STRUCTURAL CONDITION	PERCENTAGE OF RECOVERY			
75 to 150mm	>150mm	Description	0-20	20-40	40-60	60-80
		Observation				
2						
1		23-69° Smooth filling				
2						
4						
1						
1						
2						
6						
1						
1	1					
2						
		67° J Rough Interface				
		F/J 30-70° Rough Fracture				
1						
1						
1						
3						
		44-69° J Fracture Rough				
0						
1						
2	1					
0	2					

1							
1							
1		36-60° J smooth filling					
1							
1	1						
4							
1		42-46° J filling Joint					
5	1						
2							
2							
2							
2		27-50° J With smooth surface					
4		Fractured pretal					

								DRILLE			
80-100	Infig	RQD	Fracture index	Size of casing	Size of hole	Size of bit	Depth of GWT	Nil			
	14			HX (1.5m)							
	44										
	53										
	50										
	57										
	52										
	74										
	68	10									
	57	15									
	56										
	58										
	70	24									
	48										
	59	16									
	47										
	44										
	54										
	53			NX (33.5m)							
	52										
	42										
	62										
	55										
	57	11									
	49	32									
	40										
	47										
	38			NX	NQ3						
	35										
	58										
	70	26									
	78	44									

	60						
	58						
	55						
	38						
	57						
	70						
	78						
	33						
	42						
	89						
	44						
	60						
	69						
	70						
	82						
	57	10					
	80	30					
	83	12					
	95	31					
	93	15					
	90	15					
	90	15					

D WATER LOSS		PENETRATION RATE	PERMIABILITY	
partial	complete		Test section	Lugeon value
		10		
		5		
		4		
		3.3		
		2.8		
		2.4		
		2.2		
		2.08		
		2.5		
		2.6		
		3.3		
		3		
		2.8		
		2.6		
		3.3		
		3.8		
		3.4		
		2.8		
		3.8		
		3.2		
		3.3		
		2.5		
		2.6		
		2.8		
		3.3		
		3.3		
		4.5		
		2.3		
		3.4		
		4		
		3.3		

		3.4		
		4		
		3.3		
		3.7		
		4		
		2.8		
		3.7		
		3.3		
		2.2		
		2.5		
		2.5		
		2.4		
		2.5		
		2.6		
		2.7		
		2.7		
		2.5		
		2.3		
		1.6		
		1.7		
		1.4		
		1.38		

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SPECIAL OBSERVATION

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