PROJECT - SIVOK RANGPO NEW BG RAILWAY LINE PROJECT	CO-ORDINATES - E640886.452,N2983499.194
LOCATION - LOHAPOOL	ANGLE WITH HORIZONTAL - 90
SRUCTURE - BRIDGE NO. - 05/P1 (1)	BEARING OF HOLE - VERTICAL
CLIENT - IRCON INTERNATIONAL LIMITED	DEPTH OF HOLE - 30.50m
DRILLING AGENCY - OM GEO CONSTRUCTION PVT. LTD.	PERIOD OF EXCUTION - 07/01/2022 - 01/02/2022
GROUND ELEVATION 271.278	TYPE OF CORE BARREL - TRIPPLE TUBE
	LOGGED BY- Manoj kumar saw

	DEPTH		LITHOLOGY		SIZE OF CORE PIECES					STRUCTURAL CONDITION	PERCENTAGE OF RECOVERY											DRILLED WATER LOSS			PENETRATION RATE	PERMIABILITY		SPECIAL OBSERVATION
elevation	from	To	Description	Log	<10mm	10 to 25mm	25 to 75mm	75 to 150mm	>150mm	Description	0-20	20-40	40-60	60-80	80-100	Infig	RQD	Fracture index	Size of casing	Size of hole	Size of bit	Depth of GWT	Nil	partial	complete		Test section	Lugeon value	
271.278	0	0.45	SOIL MIXED WITH SAND AND QUARTZITE YELLOW COLOR AS SAND							OVERBERDEN						40			HX 114 mm	NX (19m) 89mm	NQ3 75mm	11 M							
270.828	0.45	1														67													SPT 35+40+30=105 blows from 0 to 0.45 Highly weathered N value is 70
270.278	1	2														58		>15								3.12			
269.278	2	3	PHYLLITE, QUARTZATIC PHYLLITE			>10	6			65-70° joint						74		>15								2.22			INFERRIBLE SPT
268.278	3	4				>10	10	1		45-50° joint						75	10	>15								1.96			
267.278	4	5				>10	5	1		60-65° joint						80	10	>15								1.81			INFERRIBLE SPT
266.278	5	6	PHYLLITE AND QUARTZATIC PHYLLITE			>10	3	1	1							84	33	15-8								1.53			
265.278	6	7				>10	2	8								82		>15	NX							1.66			
264.278	7	8	PHYLLITE AND QUARTZATIC PYLLITE FRACTURED ROCK MASS GREYISH IN COLOR		>10	>10	4	5								88		>15								1.44			Highly to moderately fracture and verysmall pieces slightly weathered
263.278	8	9			>10	>10	>10		1	70-85° joint						96	17	>15								0.83			
262.278	9	10			>10	>10	6									90		>15								0.71			
261.278	10	11			>10	>10	10									85		>15								0.74			
260.278	11	12				3	2	2								96		>15								0.83			
259.278	12	12.75					5	2								64		>15								0.78			
258.528	12.75	13.5														97		>15								0.98			
257.778	13.5	15														80		>15								0.96			
256.278	15	16.5														95		>15								1.01			Highly fracture and very small pieces slightly weathered
254.778	16.5	18														90		>15								0.85			
253.278	18	18.75														84		>15								0.65			
252.528	18.75	19.5														80		>15								0.77			
251.778	19.5	20.5								70-85°joint						80		>15								0.94			

250.778	20.5	21	PHYLLITE AND QUARTZATIC PYLLITE FRACTURED ROCK MASS GREYISH IN COLOR							70-85°joint						80		>15							0.71			Highly fracture and very small pieces slightly weathered
250.278	21	22														75		>15							0.56			
249.278	22	23	PHYLLITE AND QUARTZITE GREYISH TO WHITE COLOR FINE GRAIN			2	5	1								95	55	8-5							0.39			Slightly weathered
248.278	23	23.75	MILKY WHITE STRONG QUARTZITE FINE GRAIN			5	4	1	1	80-85°joint						73	33	8-15							0.4			Slightly weathered
247.528	23.75	24						2								60	60	8-5							0.4			
247.278	24	25					5	3								82	20	>15							0.34			
246.278	25	26				2	2	2	2							80	68	8-5							0.42			Slightly weathered
245.278	26	27.5				3			3	70-75°joint						96	72	8-5							0.41			
243.778	27.5	28.5				9		4	2							99	63	8-5							0.27			
242.778	28.5	29				10	11									58		>15							0.26			
242.278	29	30						2	1	65-70°joint						87	70	8-5							0.22			Slightly weathered
241.278	30	30.5					6									74		>15							0.23			Slightly to moderately fractured

NOTE TIME:

OVERBURDEN | PHYLLITE | SHEAR ZONE | GWT=GROUND WATER TABLE AT 11M | SPT=STANDARD PENETRATION TEST

QUARTZATICPHYLLITE | QUARTZITE | GNEISS | SM=SMOOTH | R=ROUGH