

LITHOLOGS OF BOLAS BLOCK, PATAN-VERAVAL TALUKA, GIR-SOMNATH DISTRICT

Borehole No.	BLBH-1						Date of commencement			09-05-2025		
Coordinates							Date of closure			12-05-2025		
20°56'12.90"N	70°30'12.00"E						Final Depth			16.00		
R.L.	45.50											
Run Length		RUN	RECOVERY %	RECOVERY (m)	RQD (%)	LITHOLOGY	EXTRAPOLATION			REMARK		
FROM	TO						FROM	TO	THICKNESS			
0.00	1.00	1.00	37.00%	-	-	Top black soil mixed with limestone fragments	0.00	0.62	0.62			
				0.37		Light brown clay mixed with limestone fragments	0.62	1.00	0.38			
1.00	2.00	1.00	98.00%	0.27	-	light brown to yellowish limestone	1.00	1.28	0.28			
				0.71		Yellowish limestone with calcareous clay	1.28	2.00	0.72			
2.00	3.00	1.00	98.00%	0.98	-	Yellowish calcareous clay mixed with limestone boulders at some places	2.00	3.00	1.00			
3.00	4.00	1.00	98.00%	0.98	49.00	Yellowish calcareous clay	3.00	4.00	1.00			
4.00	5.00	1.00	97.00%	0.97	37.00	Yellowish calcareous clay	4.00	5.00	1.00			
5.00	6.00	1.00	98.00%	0.98	83.00	Light brown clay	5.00	6.00	1.00			
6.00	7.00	1.00	98.00%	0.47	39.00	Yellowish to light brown clay	6.00	6.48	0.48			
				0.51		Light yellow limestone mixed with clay	6.48	7.00	0.52			
7.00	8.00	1.00	98.00%	0.98	-	Yellow calcareous clay mixed with limestone fragments	7.00	8.00	1.00			
8.00	9.00	1.00	98.00%	0.98	59.00	Yellowish to light brownish clay	8.00	9.00	1.00			
9.00	10.00	1.00	98.00%	0.98	76.00	Yellowish to light brownish clay	9.00	10.00	1.00			
10.00	11.00	1.00	97.00%	0.97	92.00	yellowish to light brown clay mixed with limestone at some places	10.00	11.00	1.00			
11.00	12.00	1.00	97.00%	0.97	79.00	Yellowish to light brown clay	11.00	12.00	1.00			
12.00	13.00	1.00	98.00%	0.98	90.00	Yellowish to light brown clay	12.00	13.00	1.00			
13.00	14.00	1.00	98.00%	0.98	94.00	Yellowish to light brown clay	13.00	14.00	1.00			
14.00	15.00	1.00	97.00%	0.97	96.00	Yellowish to light brown clay	14.00	15.00	1.00			
15.00	16.00	1.00	98.00%	0.98	85.00	Yellowish to light brown clay	15.00	16.00	1.00			
Borehole BLBH- 1 closed at depth of 16.00 m												
Average core recovery (%) of Limestone in Borehole BLBH-1 is 87.67												

Borehole No.	BLBH-4						Date of commencement			17-05-2025		
Coordinates							Date of closure			18-05-2025		
20°55'15.30"N	70°30'3.50"E						Final Depth			15.00		
R.L.	25.50											
Run Length		RUN	RECOVERY %	RECOVERY (m)	RQD (%)	LITHOLOGY	EXTRAPOLATION			REMARK		
FROM	TO						FROM	TO	THICKNESS			
0.00	1.00	1.00	72.00%	-		Brownish to black soil with pebbels	0.00	0.26	0.26			
				0.72		limestone pebbles with yellowish clay	0.26	1.00	0.74			
1.00	2.00	1.00	97.00%	0.97	12.00	Yellowish to brownish limestone	1.00	2.00	1.00			
2.00	3.00	1.00	98.00%	0.79	48.00	Brownish to yellowish fine calcareous marl	2.00	2.80	0.80			
				0.19		Yellowish to whitish limestone with calcareous clay	2.80	3.00	0.20			
3.00	4.00	1.00	98.00%	0.98		Yellowish to whitish limestone with calcareous clay	3.00	4.00	1.00			
4.00	5.00	1.00	98.00%	0.98		Fine grain yellowish to whitish limestone	4.00	5.00	1.00			
5.00	6.00	1.00	98.00%	0.98	44.00	Yellowish to whitish marl	5.00	6.00	1.00			
6.00	7.00	1.00	97.00%	0.72	38.00	whitish to yellowish marl	6.00	6.73	0.73			
				0.15		whitish to yellowish fine grain limestone	6.73	6.89	0.16			
				0.10		Yellowish to whitish limestone associated with clay	6.89	7.00	0.11			
7.00	8.00	1.00	98.00%	0.64	61.70	Yellowish to brownish limestone	7.00	7.65	0.65			
				0.34		Yellowish to greyish limestone pebbles	7.65	8.00	0.35			
8.00	9.00	1.00	97.00%	0.24		Whitish to yellowish fine to medium hard limestone	8.00	8.25	0.25			
				0.33		limestone pebbles with brownish fine to medium grain clay	8.25	8.59	0.34			
				0.40		yellowish to whitish soft limestone	8.59	9.00	0.41			
9.00	10.00	1.00	98.00%	0.98		yellowish to whitish soft limestone/ Fine to medium grain	9.00	10.00	1.00			
10.00	11.00	1.00	98.00%	0.63		yellowish to whitish soft limestone/ Fine to medium grain	10.00	10.64	0.64			
				0.35		Brownish fine to medium clay	10.64	11.00	0.36			
11.00	12.00	1.00	98.00%	0.54	42.00	Brownish fine to medium clay	11.00	11.55	0.55			
				0.44		Yellowish to whitish limestone hard	11.55	12.00	0.45			
12.00	13.00	1.00	98.00%	0.38		limestone pebbles with brownish fine to medium grain clay	12.00	12.39	0.39			
				0.60		limestone with yellowish clay	12.39	13.00	0.61			
13.00	14.00	1.00	97.00%	0.38		Yellowish to whitish fine to medium grain limestone associated with clay	13.00	13.40	0.40			
				0.59		Brownish to yellowish fine to medium grain clay	13.40	14.00	0.60			
14.00	15.00	1.00	98.00%	0.98	71.85	Brownish to yellowish fine to medium grain clay	14.00	15.00	1.00			
Borehole BLBH- 4 closed at depth of 15.00 m												
Average core recovery (%) of Limestone in Borehole BLBH-4 is 95.69												

Borehole No.	BLBH-5						Date of commencement			14-05-2025
Coordinates							Date of closure			16-05-2025
20°55'26.40"N	70°30'27.90"E						Final Depth			17.00
R.L.	31.00									
Run Length		RUN	RECOVERY %	RECOVERY (m)	RQD (%)	LITHOLOGY	EXTRAPOLATION			REMARK
FROM	TO						FROM	TO	THICKNESS	
0.00	1.00	1.00	67.00%	–		Top black soil with limestone	0.00	0.30	0.30	
				0.67		Buff white to light pinkish limestone	0.30	1.00	0.70	
1.00	2.00	1.00	97.00%	0.48		Light pinkish limestone	1.00	1.50	0.50	
				0.49		limestone fragments mixed with calcareous clay	1.50	2.00	0.50	
2.00	3.00	1.00	97.00%	0.37		Whitish to yellowish limestone fragments	2.00	2.38	0.38	
				0.60		limestone fragments mixed with calcareous clay	2.38	3.00	0.62	
3.00	4.00	1.00	98.00%	0.98		limestone fragments mixed with calcareous clay	3.00	4.00	1.00	
4.00	5.00	1.00	98.00%	0.98	76.00	Yellow to greyish clay mixed with limestone fragments	4.00	5.00	1.00	
5.00	6.00	1.00	98.00%	0.98	41.00	Yellowish to greyish clay mixed with limestone fragments	5.00	6.00	1.00	
6.00	7.00	1.00	98.00%	0.98	89.00	Yellowish to greyish clay	6.00	7.00	1.00	
7.00	8.00	1.00	98.00%	0.98	64.00	Yellowish to greyish clay	7.00	8.00	1.00	
8.00	9.00	1.00	98.00%	0.98	82.00	Yellowish to greyish clay	8.00	9.00	1.00	
9.00	10.00	1.00	97.00%	0.97	59.00	Yellowish to greyish clay	9.00	10.00	1.00	
10.00	11.00	1.00	97.00%	0.27		Yellowish to greyish clay	10.00	10.28	0.28	
				0.70		Yellowish to light greyish marl	10.28	11.00	0.72	
11.00	12.00	1.00	98.00%	0.98	68.00	Yellowish to light greyish marl	11.00	12.00	1.00	
12.00	13.00	1.00	98.00%	0.77	72.00	Yellowish clay mixed with limestone fragments	12.00	12.78	0.78	
				0.21		Yellowish to light pink limestone	12.78	13.00	0.22	
13.00	14.00	1.00	98.00%	0.09	64.00	Yellowish to light pink limestone	13.00	13.10	0.10	
				0.89		Yellowish calcareous clay	13.10	14.00	0.90	
14.00	15.00	1.00	98.00%	0.98		Yellowish calcareous clay	14.00	15.00	1.00	
15.00	16.00	1.00	98.00%	0.98		Yellowish clay mixed with limestone fragments at some places	15.00	16.00	1.00	
16.00	17.00	1.00	98.00%	0.31	21.00	Yellowish clay	16.00	16.32	0.32	
				0.67		Yellowish clay mixed with fine sand	16.32	17.00	0.68	

Borehole BLBH- 5 closed at depth of 17.00 m

Average core recovery (%) of Limestone in Borehole BLBH-5 is 93.23