

BOREHOLE LITHOLOGY**Borehole ID - RBH-01****Location – 26°13'52.7" N, 70°56'16.2" E**

Depth (m)	Lithology
0.00-0.50	0.00-0.40 m – Dark brown color, fine to medium-grained soil.
0.50-1.00	Dark brown color, medium to fine-grained soil.
1.00-2.00	Dark brown color, medium to fine grained soil, having 1-2cm thick fragments of quartzitic sandstone.
2.00-3.00	Boulders of fractured Quartzitic sandstone, greyish in color and medium to fine grained.
3.00-4.00	Dark brown colored, clay with mixed sand.
4.00-5.00	Dark brown color, medium to fine grained soil having frequent of quartzitic sandstone varying from 1-2 cm.
5.00-6.00	5 – 5.50 m – medium to fine grained quartzitic sandstone.
	5.50 – 5.80 m – weathered and fractured quartzitic sandstone.
	5.80- 6.00 m – fine to medium grained , light grey quartzite sandstone.
6.00-9.00	Fine to medium grained laminated, light grey quartzitic sandstone with some fracture.
9.00-11.50	Fine to medium grained laminated, light grey quartzitic sandstone with some fracture.
11.50-13.50	Variegated shale , laminated pale yellow to greenish greyish in color.
13.50-16.50	13.50-15.00 m - medium to fine grained quartzitic sandstone. 15.00-15.80 m - variegated shale.
	15.80-16.50 m - light grey, medium to fine grained quartzitic sandstone.

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16.50- 19.50	Quartzitic sandstone, medium to fine grained.
19.50-21.00	19.50-19.70 m - quartzitic sandstone. 19.70-20.40 m - variegated shale.
	20.40-21.00 m - quartzitic sandstone.
21.00- 23.00	Quartzitic sandstone.
23.00- 25.00	Medium to fine grained, light grey, sandy quartzitic sandstone, and have fracture zone of about 0.10 m
25.00- 26.50	25.00 to 25.30m – Medium to fine grained, light grey, sandy quartzitic sandstone.
	25.30 to 26.50m – fractured shale
26.50- 28.50	fractured shale, greenish to greyish color,
28.50- 29.50	Hard and compact shale,
29.50- 31.00	Variegated shale shows fracture.
31.00- 32.50	Variegated shale shows fracture.
32.50- 34.00	Variegated shale shows fracture.
34.00- 37.00	Hard and compact, greenish to greyish shale.
37.00- 38.50	Laminations showing micro folding in fractured shale.

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38.50-40.00	Light brown to yellowish green colored, had and compact shale.
40.00-42.00	Light brown to yellowish green, hard and compact shale
42.00-43.50	40.00 to 42.40 m – light brown shale 42.40to 43.50m – light grey (cement colored) compact, and hard clay stone
43.50-45.00	Intercalation of shale and clay stone shows lamination of medium to fine-grained sandstone
45.00-47.00	Variegated shale of light brown to greyish green color intermixed with claystone
47.00-50.00	Hard and compact claystone, light grey in color show different color combinations.

Borehole ID - RBH-02**Location – 26°13'07.3" N, 70°55'35" E**

Depth (m)	Lithology
0.00-1.00	0.00-0.30 m - Brownish, medium to fine-grained sand.
	0.30-1.00 m – Weathered, fragile boulders of quartzitic sandstone of grey color.
1.00-2.00	1.00-1.80 m – Brownish, medium to fine-grained sand.
	1.80-2.00 m - Greyish quartzitic sandstone.
2.00-3.00	Quartzitic gravel and compact sandstone.
3.00-4.00	3.00-3.60m – Brownish, medium to fine-grained boulders and sand.
	3.60-4.00 m - Laminated variegated shale of grey to greenish in color.
4.00-5.00	4.00-4.50 m – Medium to fine-grained, brown sand.
	4.50- 5.00 m – Fractured and weathered variegated shale.

e-mail: dgm-min@fagmil.nic.infagmilrp@gmail.com

Phone number: 0291-2948276

+918764788276

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5.00-6.00	5.00-5.10 m – Hard and compact, laminated clay stone.
6.00-7.00	6.00-6.80 m – Laminated clay stone
	6.80-7.00 m – Hard and compact clay stone
7.00-8.00	Weathered and fractured variegated shale.
8.00-9.00	Hard and compact variegated shale, laminated shale .
9.00-10.00	Hard and compact variegated shale, laminated shale
10.00-12.00	10.00-10.70 m - Sandy laminated variegated shale showing angular bedding plane and fractured along bedding plane.
	10.70-12.00 m - Weathered to fractured shale.
12.00-13.00	Weathered and fractured variegated shale.
13.00-14.00	Highly fractured weathered shale.
14.00 – 15.00	Hard and compact variegated shale, along the bedding plan.
15.00 – 16.00	Brownish colored medium to fine grained sand with boulders.
16.00 – 17.00	16.00 – 16.60 m Brownish colored medium to fine grained sand with boulders.
	16.60 – 17.00 m – fractured weathered boulders of shale.
17.00 - 18.00	17.00 – 17.40 m – Variegated, finely laminated shale.
	17.40 – 18.00 m – Brownish – red colored fine grained shale.
18.00 – 20.00	Boulders of shale.

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19.10 – 20.00	Dark maroon to chocolatey colored siltstone claystone , hard and compact in nature, thinly laminated of fine-grained rock.
20.00 – 21.00	Greyish to greenish colored variegated shale.
21.00 – 22.00	Weathered and fractured boulders of shale.
22.00 - 23.00	Fractured shale
23.00 –	23.00 – 23.60m –Medium to fine-grained dark brown sandstone
24.00	23.60 – 24.00 m –Shale
24.00 – 25.50	Green to greyish variegated shale.
25.50 – 27.00	Green to greyish variegated shale.
27.00 – 28.50	Green to greyish variegated shale.
28.50 – 30.00	Laminated variegated shale with fragile weathered boulders.
30.00 – 31.00	Laminated variegated shale with fragile weather boulders
31.00 – 33.00	Hard to compact grey colored claystone with boulders.
33.00–	Siltstone having grey to brown color.
34.50	Fractured plane have cavity filling of quartzite or calcite

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34.50 - 36.00	Siltstone
36.00 – 38.00	Hard and compact clay stone with fractured and weathered boulders.
38.00 – 40.00	Weathered and fragile shale with hard and compact shale.
38.00 – 42.00	Hard to compact greyish to green colored with maroon colored laminated shale.
42.00 – 43.50	Hard to compact greyish to green colored with maroon colored laminated shale.
43.50 – 45.00	Hard to compact greyish to green colored with maroon colored laminated shale.
45.00 – 48.50	Hard to compact greyish to green colored with maroon colored laminated shale with fractured shale.
48.50 – 50.00	Fractured shale