

DETAILED LITHOLOGS OF BOREHOLES DRILLED IN
NAGARDHAN (G3) BLOCK, DIST:NAGPUR, MAHARASHTRA

BOREHOLE NO . - MNB-01

NORTHING: 2359299.173
EASTING:326390.767
REDUCED LEVEL (m): 296.25
ANGLE OF BOREHOLE: 50°

DEPTH DRILLED (m): 60.00
DATE OF COMMENCEMENT: 12.12.2024
DATE OF CLOSURE: 12.12.2024
CORE SIZE: HQ & NQ

FROM	TO	THICK.	REC. THICK (m)	REC. %	RQD	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	REMARKS
0.00	1.00	1.00	0.65	65.00	-	Brownish Grey	Soil	-	-
1.00	4.00	3.00	1.83	61.00	-	Brownish Grey	Soil	-	-
4.00	7.00	3.00	2.57	85.67	-	Brown	Quartz muscovite biotite schist	Sludge	
7.00	10.00	3.00	2.00	66.67	-	Brown	Quartz muscovite biotite schist	Sludge	
10.00	13.00	3.00	2.00	66.67	-	Brown	Quartz muscovite biotite schist	Sludge	
13.00	15.10	2.10	1.37	65.24	-	Brown	Quartz muscovite biotite schist	Sludge	
15.10	16.00	0.90	0.63	70.00	-	Pinkish Brown	Feldspathised quartz muscovite biotite schist		
16.00	17.00	1.00	0.30	30.00	-	Pinkish Brown	Feldspathised quartz muscovite biotite schist		
17.00	18.00	1.00	0.33	33.00	-	Pinkish Brown	Feldspathised quartz muscovite biotite schist		
18.00	19.00	1.00	0.31	31.00	-	Brownish Grey	Manganese ore zone		Boulders of Manganese ore body
19.00	21.10	2.10	0.63	30.00	-	Greenish Brown	Quartz muscovite biotite schist		
21.10	22.00	0.90	0.27	30.00	-	Pinkish White	Pegmatite		Books of mica
22.00	25.00	3.00	1.90	63.33	-	Brownish Grey	Quartz muscovite biotite schist	Sludge	
25.00	28.00	3.00	2.00	66.67	-	Brownish Grey	Quartz muscovite biotite schist	Sludge	
28.00	29.70	1.70	0.40	23.53	-	Brownish Grey	Quartz muscovite biotite schist		
29.70	31.00	1.30	0.60	46.15	-	Brownish Grey	Quartz muscovite biotite schist		

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BOREHOLE NO. - MNB-01

FROM	TO	THICK.	REC. THICK (m)	REC. %	RQD	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	REMARKS
31.00	32.00	1.00	0.80	80.00	-	grey	Quartz Biotite schist	Foliation	
32.00	32.90	0.90	0.63	70.00		Pinkish White	Pegmatite		massive feldspar crystals
32.90	34.00	1.10	0.40	36.36	-	brown	Feldspathised quartz muscovite biotite schist	Sludge	with crushed of Manganese ore minerals
34.00	35.00	1.00	0.46	46.00	-	brown	Feldspathised quartz muscovite biotite schist	Sludge	
35.00	37.00	2.00	0.95	47.50	-	brown	Quartz muscovite biotite schist	Sludge	
37.00	40.00	3.00	0.90	30.00		Brownish Grey	Quartz muscovite biotite schist	schistose	
40.00	41.20	1.20	0.82	68.33	0.22	Brownish Grey	Feldspathised quartz muscovite biotite schist		
41.20	41.80	0.60	0.43	71.67	-	Brownish Grey	Feldspathised quartz muscovite biotite schist	fractured	
41.80	43.00	1.20	0.73	60.83	0.16, 0.11	Brownish Grey	Feldspathised quartz muscovite biotite schist		
43.00	45.50	2.50	1.10	44.00	-	Grey	Quartz Biotite schist		Core angle - 35°
45.50	46.00	0.50	0.10	20.00	-	Brownish Grey	Quartz Biotite schist	Sludge	
46.00	48.30	2.30	0.40	17.39	-	Brownish Grey	Quartz Biotite schist		
48.30	49.00	0.70	0.43	61.43	-	Brownish Grey	Garnetiferous quartz biotite schist		
49.00	52.00	3.00	1.82	60.67	0.13	Brownish Grey	Garnetiferous quartz biotite schist		
52.00	54.10	2.10	1.93	91.90	-	Brownish Grey	Garnetiferous quartz biotite schist	fractured	
54.10	55.00	0.90	0.82	91.11	-	Brownish Grey	Garnetiferous quartz biotite schist	fractured	
55.00	58.00	3.00	2.20	73.33	0.16, 0.22, 0.1, 0.21	Brownish Grey	Garnetiferous quartz biotite schist		Core angle - 56°
58.00	60.00	2.00	1.96	98.00	0.17, 0.31, 0.12, 0.34, 0.29	Brownish Grey	Garnetiferous quartz biotite schist		Core angle - 34°

DETAILED LITHOLOGS OF BOREHOLES DRILLED IN
NAGARDHAN (G3) BLOCK, DIST:NAGPUR, MAHARASHTRA

BOREHOLE NO. - MNB-02

NORTHING: 2359393.823
EASTING: 325997.316
REDUCED LEVEL (m): 290.375
ANGLE OF BOREHOLE: 65°

DEPTH DRILLED (m): 60.00
DATE OF COMMENCEMENT: 27.12.2024
DATE OF CLOSURE: 24.12.2024
CORE SIZE: HQ & NQ

FROM	TO	THICK.	REC. THICK (m)	REC. %	RQD	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	REMARKS
0.00	4.50	4.50	-	-	-	Black	Soil	Clayey soil	-
4.50	7.50	3.00	-	-	-	Brown	Soil	Sludge	-
7.50	10.50	3.00	2.2	73.33	-	Brown	Soil	Sludge	
10.50	13.50	3.00	1.94	64.67	-	Grey	Quartz muscovite biotite schist	Core angle - 62°	
13.50	14.10	0.60	0.4	66.67	-	Grey	Quartz muscovite biotite schist		
14.10	16.50	2.40	1.84	76.67	0.11	Pinkish Grey	Feldspathised quartz muscovite biotite schist	Core angle - 67°	
16.50	19.50	3.00	2.23	74.33	0.11, 0.12	Pinkish Grey	Feldspathised quartz muscovite biotite schist	Core angle - 64°	
19.50	22.50	3.00	2.28	76.00	0.12, 0.23, 0.26, 0.34, 0.24	Pinkish Grey	Feldspathised quartz muscovite biotite schist		
22.50	25.10	2.60	1.53	58.85	0.16	Pinkish	Pegmatite	Highly Fractured	
25.10	25.50	0.40	0.27	67.50	0.23	Pinkish Grey	Feldspathised quartz muscovite biotite schist	Core angle - 53°	
25.50	27.85	2.35	2.24	95.32	0.23, 0.29, 0.11, 0.12	Grey	Quartz Biotite schist		
27.85	28.50	0.65	0.54	83.08	0.23, 0.13	Pinkish Grey	Feldspathised quartz muscovite biotite schist	Core angle - 52°	

DETAILED LITHOLOGS OF BOREHOLES DRILLED IN
NAGARDHAN (G3) BLOCK, DIST:NAGPUR, MAHARASHTRA

BOREHOLE NO. - MNB-02

FROM	TO	THICK.	REC. THICK (m)	REC. %	RQD	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	REMARKS
28.50	31.50	3.00	2.94	98.00	0.35, 0.54, 0.32, 0.14, 0.16	Pinkish Grey	Feldspathised quartz muscovite biotite schist	Core angle - 73°	
31.50	34.50	3.00	2.96	98.67	0.28, 0.23, 0.32, 0.52	Pinkish Grey	Feldspathised quartz muscovite biotite schist		
34.50	36.40	1.90	1.42	74.74	0.13, 0.11, 0.16	Pinkish Grey	Feldspathised quartz muscovite biotite schist	Core angle - 64°	
36.40	37.50	1.10	0.52	47.27	-	Grey	Quartz Biotite schist	Highly Fractured	
37.50	40.50	3.00	2.85	95.00	0.13, 0.13, 0.18, 0.15, 0.23	Pinkish Grey	Feldspathised quartz muscovite biotite schist	Core angle - 83°	feldspathic vein
40.50	43.50	3.00	2.4	80.00	0.14, 0.18, 0.22, 0.25	Pinkish Grey	Feldspathised quartz muscovite biotite schist		massive feldspar crystals
43.50	46.50	3.00	2.89	96.33	0.14, 0.14, 0.20, 0.17, 0.17, 0.18, 0.19	Grey	Quartz Biotite schist	Core angle - 74°	
46.50	49.50	3.00	2.94	98.00	0.19, 0.25, 0.23, 0.29, 0.53	Grey	Quartz Biotite schist		
49.50	52.50	3.00	2.73	91.00	0.23, 0.23, 0.41, 0.41	Grey	Quartz Biotite schist		
52.50	55.50	3.00	2.73	91.00	0.32, 0.13, 0.14, 0.13, 0.16, 0.12	Grey	Quartz Biotite schist		
55.50	58.50	3.00	2.92	97.33	0.32, 0.48, 0.28	Grey	Quartz Biotite schist		
58.50	60.00	1.50	1.44	96.00	0.13, 0.11, 0.15, 0.14	Grey	Quartz Biotite schist		

DETAILED LITHOLOGS OF BOREHOLES DRILLED IN
NAGARDHAN (G3) BLOCK, DIST:NAGPUR, MAHARASHTRA

BOREHOLE NO MNB-03

NORTHING: 2359329.512
EASTING: 326151.533
REDUCED LEVEL (m): 293.519
ANGLE OF BOREHOLE: 54⁰

DEPTH DRILLED (m): 60.00
DATE OF COMMENCEMENT: 11.01.2025
DATE OF CLOSURE: 18.01.2025
CORE SIZE: HQ & NQ

FROM	TO	THICK.	REC. THICK (m)	REC. %	RQD	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	REMARKS
0.00	1.00	1.00	-	-	-	Black	Soil	Sludge	-
1.00	4.00	3.00	-	-	-	Black	Soil	Sludge	-
4.00	5.00	1.00	-	-	-	Brownish	Soil	Sludge	
5.00	7.00	2.00	1.84	92.00	-	Brownish	Quartz Biotite schist	Sludge	
7.00	10.00	3.00	2.50	83.33	-	brownish	Quartz Biotite schist	Sludge	
10.00	13.00	3.00	1.95	65.00	-	brownish	Quartz Biotite schist	Sludge	
13.00	16.00	3.00	1.79	59.67	-	brownish	Quartz Biotite schist	Sludge	
16.00	16.30	0.30	0.20	66.67	-	Brownish	Quartz Biotite schist	Sludge	
16.30	17.00	0.70	0.54	77.14	-	Milky white to grey	Pegmatite	Highly Fractured	
17.00	18.00	1.00	0.38	38.00	-	Milky white to grey	Pegmatite	Highly Fractured	
18.00	19.00	1.00	0.86	86.00	-	Brownish	Quartz muscovite biotite schist	Sludge	
19.00	20.00	1.00	0.97	97.00	-	Brownish	Quartz muscovite biotite schist	Sludge	
20.00	21.00	1.00	0.96	96.00	-	Brownish	Quartz muscovite biotite schist	Sludge	
21.00	22.00	1.00	0.90	90.00	-	Brownish	Quartz muscovite biotite schist	Sludge	
22.00	25.00	3.00	2.82	94.00	-	Brownish	Quartz muscovite biotite schist	Sludge	

DETAILED LITHOLOGS OF BOREHOLES DRILLED IN
NAGARDHAN (G3) BLOCK, DIST:NAGPUR, MAHARASHTRA

BOREHOLE NO MNB-03

FROM	TO	THICK.	REC. THICK (m)	REC. %	RQD	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	REMARKS
25.00	28.00	3.00	2.68	89.33	-	Greyish Brown	Quartz Biotite schist		
28.00	29.00	1.00	0.52	52.00	0.15, 0.12	Pinkish grey	Altered pyroxenite		
29.00	29.50	0.50	0.14	28.00	0.11	Pinkish grey	Altered pyroxenite		
29.50	30.00	0.50	0.36	72.00		greenish white	Altered pyroxenite	Microfolding with detached limbs	with Silicification
30.00	31.00	1.00	0.38	38.00	-	Light grey	Quartz Biotite schist	Highly fractured	
31.00	31.80	0.80	0.65	81.25	-	Greyish green	Pegmatite		Big crystals of feldspar
31.80	32.00	0.20	0.12	60.00	-	Greyish black	Quartz Biotite schist		
32.00	33.00	1.00	0.47	47.00		Greyish black	Quartz Biotite schist	Highly fractured	
33.00	34.00	1.00	0.27	27.00	-	Greyish black	Quartz Biotite schist	Core angle is 0°	
34.00	37.00	3.00	2.43	81.00	-	Greenish grey	Quartz Biotite schist	Sludge	
37.00	38.90	1.90	1.40	73.68	-	-	Quartz Biotite schist	Core angle is 0°	
38.90	40.00	1.10	0.42	38.18	-	dark grey	Quartz Biotite schist	Core angle is 0°	
40.00	41.00	1.00	0.30	30.00	-	greenish black	Quartz Biotite schist	Core angle is 0°	
41.00	42.00	1.00	0.88	88.00	0.13, 0.15	greenish black	Garnetiferous quartz biotite schist	Highly fractured	
42.00	43.00	1.00	0.30	30.00	-	Grey	Quartz Biotite schist	Highly Fragile	
43.00	44.00	1.00	0.58	58.00	0.13, 0.16	Grey	Quartz Biotite schist	Highly Fragile	
44.00	45.00	1.00	0.63	63.00	-	Grey	Quartz Biotite schist		
45.00	47.00	2.00	1.00	50.00	0.17, 0.14	Grey	Quartz Biotite schist		
47.00	48.00	1.00	0.63	63.00	-	greenish black	Quartz Biotite schist	Highly Fragile	
48.00	49.00	1.00	0.27	27.00	-	greenish black	Quartz Biotite schist	Highly Fractured	
49.00	50.00	1.00	0.25	25.00	-	Grey	Quartz Biotite schist	Highly Fractured	
50.00	51.00	1.00	0.36	36.00	-	Grey	Quartz Biotite schist	Highly Fractured	
51.00	52.00	1.00	0.33	33.00	0.1	Grey	Quartz Biotite schist	Highly Fractured	

DETAILED LITHOLOGS OF BOREHOLES DRILLED IN
NAGARDHAN (G3) BLOCK, DIST:NAGPUR, MAHARASHTRA

BOREHOLE NO MNB-03

FROM	TO	THICK.	REC. THICK (m)	REC. %	RQD	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	REMARKS
52.00	53.00	1.00	0.27	27.00	-	Grey	Quartz Biotite schist	Highly Fractured	
53.00	53.50	0.50	0.10	20.00	-	Grey	Quartz Biotite schist	Highly Fractured	
53.50	54.00	0.50	0.42	84.00	-	Grey	Quartz Biotite schist	Highly Fractured	
54.00	54.50	0.50	0.47	94.00	0.1	Grey	Quartz muscovite biotite schist	Core angle is 35°	
54.50	55.00	0.50	0.44	88.00	0.16	Grey	Quartz muscovite biotite schist		
55.00	56.00	1.00	0.93	93.00	0.25, 0.22, 0.18	Grey	Quartz muscovite biotite schist		Alteration along fractures
56.00	56.50	0.50	0.47	94.00	0.16	Grey	Quartz muscovite biotite schist	Core angle is 44°	Alteration along fractures
56.50	57.00	0.50	0.44	88.00	0.22, 0.18	Grey	Quartz muscovite biotite schist		Alteration along fractures
57.00	57.50	0.50	0.43	86.00	0.25	Grey	Quartz muscovite biotite schist	Core angle is 62°	
57.50	58.00	0.50	0.44	88.00	0.17, 0.14, 0.10	Grey	Quartz muscovite biotite schist		
58.00	58.50	0.50	0.43	86.00	0.22, 0.1	Grey	Quartz muscovite biotite schist		
58.50	59.50	1.00	0.85	85.00	0.27, 0.11, 0.15	Grey	Quartz muscovite biotite schist	Core angle is 52°	
59.50	60.00	0.50	0.47	94.00	0.45	Grey	Quartz muscovite biotite schist	Core angle is 55°	