

Summarised Lithologs of Boreholes Drilled by MECL in Jamtola-Khandapar Block, District: Balaghat, Madhya Pradesh

BOREHOLE NO. MJGL-01

RUN (m)		REC. THICK (m)	EXT. THICK (m)	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	9.00	9.00	9.00	0.00	Earthy	Soil/ Sludge	-----		
9.00	15.00	5.46	6.00	0.00	Dirty Grey	Weathered Chlorite-Quartz-Schist	Highly fractured		
15.00	27.00	8.48	12.00	10.00	Greenish Grey	Chlorite-Quartz-Schist	Highly fractured, Fine-grained, Occasional Carbonate veins	Occasional dissemination of Pyrites	Sericitisation
27.00	72.00	41.11	45.00	58.00	Pinkish Grey	Feldspathic Chlorite-Biotite Quartz schist	Fine grained, highly fractured, Shearing	Occasional specks of Pyrites at places	Feldspathisation
72.00	81.00	8.67	9.00	65.00	Greenish Grey	Chlorite-Quartz-Schist	Highly fractured, Occasional Carbonate veins	Occasional specks of Pyrites	-----

BOREHOLE NO. MJGL-02

RUN (m)		REC. THICK (m)	EXT. THICK (m)	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	24.00	24.00	24.00	0.00	Earthy Brown	Soil/ Sludge	-----		
24.00	54.56	27.89	30.56	41.00	Greenish Grey	Chlorite-Biotite-Quartz-Schist	Fractured, Occasional Carbonate Veins	Specks and dessiminations of pyrites.	
54.56	56.20	1.41	1.64	15.00	Brown	Sandy clay	-----		
56.20	58.00	1.38	1.80	18.00	Dirty White	Quartz vein (smoky)	Fractured		
58.00	69.00	10.39	11.00	23.00	Greenish Grey	Chlorite-Biotite-Quartz-Schist	Fractured, Occasional Carbonate Veins, Sheared		Sericitisation
69.00	75.00	5.22	6.00	36.00	Greenish Grey	Chlorite Quartz schist	Fractured, Occasional Carbonate Veins, Sheared	Very rare occasion of dissemination of Pyrites	
75.00	90.00	14.37	15.00	52.00	Greenish Grey	Feldspathised Chlorite-	Highly fractured, Occasional	Very rare occasion of	

BOREHOLE NO. MJGL-03

RUN (m)		REC. THICK (m)	EXT. THICK (m)	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	16.00	14.00	16.00	0.00	Earthy	Soil/ Sludge			
16.00	50.00	31.42	34.00	34.00	Greenish Grey	Chlorite-Biotite-Quartz-Schist	Fine grained, Fractured, Sheared, Occasional Carbonate veins intrusions	Dissemination of Pyrite alongwith Chalcopryrite as Pyrite	
50.00	55.00	4.12	5.00	32.00	Dark Grey	Feldspathic biotite-quartz schist	Fine grained, Fractured, moderately sheared	Encrustations of Pyrrhotites & Dissemination of Pyrite	
55.00	61.78	6.21	6.78	22.00	Greenish Grey	Chlorite-Biotite-Quartz-Schist	Fine grained, Highly Fractured, sheared	Occasional dissemination of Pyrites at places	
61.78	69.28	7.28	7.50	37.00		Amphibolite	Shearing at places, Feldspathic intrusion at places	NIL	Feldspathisation
69.29	70.80	1.47	1.51	55.00	Greyish Green	Chlorite-Biotite-Quartz-Schist	Fine grained, Fractured, moderately shear	NIL	
70.80	90.00	18.77	19.21	40.00	Greyish Green	Amphibolite	Fine grained, Fractured, Occasional Carbonate veins	Occasional dissemination of Pyrites & Occasional Encrustation of Pyrrhotites	

BOREHOLE NO. MJGL-04

RUN (m)		REC. THICK (m)	EXT. THICK (m)	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	12.00	12.00	12.00	0.00	Earthy	Soil/ Sludge			
12.00	18.00	4.94	6.00	13.00	Greyish White	Weathered quartz chlorite schist			
18.00	30.56	11.79	12.56	30.00	Greenish Grey	Amphibolite	Fine grained, Shearing at places	Dissemination of Pyrite at places, Occasional dissemination of Pyrites	Feldspathisation
30.56	32.63	1.95	2.07	37.00	Pinkish White	Feldspathic vein	Fine grained, Compass	Occasional dissemination of Pyrites	
32.63	51.00	16.43	18.37	54.00	Greenish Grey	Phyllite	Fine grained, Sheared, Fractured at places	Occasional dissemination of Pyrites	

51.00	90.00	36.21	39.00	62.00	Greenish Grey	Chlorite-sericite-quartz schist	Fine grained, Sheared, Microfoldings (Chevron)	Occasional dissemination of Pyrites	
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BOREHOLE NO. MJGR-01

RUN (m)		REC. THICK (m)	EXT. THICK (m)	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	6.00	6.00	6.00	0.00	Earthy Brown	Soil/ Sludge			
6.00	9.00	3.00	3.00	10.00	Greenish Grey	Weathered Phyllite			
9.00	27.00	17.31	18.00	38.00	Greenish Grey	Phyllite	Feldspathic intrusion (Orthoclase) at places		
27.00	46.00	18.54	19.00	70.00	Brownish Grey	Calcite vein with quartzo-	Shearing at places, Occasional		
46.00	58.10	11.91	12.10	71.00	Greyish Green	Amphibolite			
58.10	100.00	41.19	41.90	74.00	Greyish Green	Phyllite (Chloritic)	Occasional Carbonate veins, (Orthoclase intrusion at places)		

BOREHOLE NO. MJGR-02

RUN (m)		REC. THICK	EXT. THICK	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	18.00	18.00	18.00	0.00	Earthy Brown	Soil/ Sludge			
18.00	45.40	26.91	27.40	68.00	Greyish Green	Sheared Amphibolite	Fractured, Occasional Carbonate vein intrusion, Small scale folds & faults	Occasional dissemination of Pyrites	
45.40	49.63	4.14	4.23	68.00	Greyish	Phyllite	Occasional Carbonate vein intrusion		
49.63	55.94	6.22	6.31	78.00	Dirty White	Calcite vein intruded by quartz veins.	Parallel fractured, Shattering at places	Encrustation of Pyrrhotites along weak places	
55.94	65.00	8.81	9.06	74.00	Greyish Green	Amphibolite	Occasional Carbonate Veins Shearing at places		

BOREHOLE NO. MJGR-03

RUN (m)		REC. THICK (m)	EXT. THICK (m)	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	18.93	18.62	18.93	0.00	Earthy Brown	Soil/Sludge			
18.93	40.68	21.26	21.75	53.00	Greyish Green	Phyllites	Shattering at Places		
40.68	50.00	9.04	9.32	61.00	Black	Graphite	Highly fractured	Flaky Graphites	

BOREHOLE NO. MJGR-04

RUN (m)		REC. THICK (m)	EXT. THICK (m)	RQD %	COLOUR	LITHOLOGY	STRUCTURAL/ NATURE DETAILS	MINERALOGY	REMARKS
FROM	TO								
0	4.80	4.80	4.80	0.00	Earthy brown	Soil/Sludge			
4.80	18.00	12.88	13.20	39.00	Yellowish brown	Weathered Carbonaceous Phyllite			
18.00	19.70	1.70	1.70	35.00	Greyish brown	Weathered Quartz Vein			
19.70	28.13	8.28	8.43	40.00	Yellowish brown	Weathered Phyllite			
28.13	30.00	1.87	1.87	20.00	Yellowish brown	Fine Sludge	Highly fractured	Flaky Graphite	
30.00	32.22	2.22	2.22	22.00	Yellowish brown	Weathered Phyllite	Highly fractured	Flaky Graphite	
32.22	37.28	4.97	5.06	22.00	Black	Graphite flakes	Highly fractured	Flaky Graphite	
37.28	44.00	6.47	6.72	20.00	Greyish	Phyllites	Highly fractured, Limonitic stains		