

**Statement showing summarized litholog of boreholes drilled by MECL in Bharatbahal Manganese and Graphite (G3) Block during reconnaissance survey , Dist.-Balangir, Odisha**

<b>MLB-01</b>								
<b>Run (m)</b>			<b>Recovery Thickness (m)</b>	<b>Recovery (%)</b>	<b>Lithology</b>	<b>Colour</b>	<b>Mineralization Details</b>	<b>Remarks</b>
<b>From</b>	<b>To</b>	<b>Thickness</b>						
0.00	5.00	5.00	5.00	100.00	Soil	Light Brown		
5.00	12.07	7.07	6.73	95.19	Weathered Khondalite	Brown		
12.07	13.00	0.93	0.68	73.12	Calc-silicate	White		
13.00	16.00	3.00	2.36	78.67	Weathered Khondalite	Brown		
16.00	16.50	0.50	0.46	92.00	Sand	Light Brown		
16.50	17.80	1.30	1.18	90.77	Manganiferous Khondalite	Black	Manganese	
17.80	18.50	0.70	0.65	92.86	Weathered Khondalite	Brown		
18.50	19.00	0.50	0.40	80.00	Quartzite	White		
19.00	22.76	3.76	1.35	35.90	Weathered Khondalite	Brown		
22.76	23.87	1.11	1.11	100.00	Quartzo feldspathic rock	Brown		
23.87	25.40	1.53	1.33	86.93	Manganiferous Khondalite	Brown	Manganese	
25.40	27.22	1.82	1.52	83.52	Khondalite	Brown		
27.22	28.00	0.78	0.59	75.64	Quartzite	White		
28.00	30.60	2.60	2.24	86.15	Khondalite with Graphite	Light green	Graphite	
30.60	31.00	0.40	0.36	90.00	Khondalite	Brown		
31.00	31.56	0.56	0.56	100.00	Khondalite with Graphite	Light green	Graphite	
31.56	35.00	3.44	3.44	100.00	Quartzite	White		
35.00	35.95	0.95	0.95	100.00	Slate	Black		
35.95	58.70	22.75	22.75	100.00	Quartzite	White		
58.70	62.80	4.10	4.10	100.00	Khondalite with Graphite	Light green	Graphite	
62.80	66.00	3.20	3.20	100.00	Quartzite	White		

<b>MLB-02</b>								
<b>Run (m)</b>			<b>Recovery Thickness (m)</b>	<b>Recovery (%)</b>	<b>Lithology</b>	<b>Colour</b>	<b>Mineralization Details</b>	<b>Remarks</b>
<b>From</b>	<b>To</b>	<b>Thickness</b>						
0.00	5.00	5.00	5.00	100.00	Top soil	Black		
5.00	10.00	5.00	5.00	100.00	Weathered Khondalite	Grey		
10.00	10.50	0.50	0.50	100.00	Khondalite	Whitesh Grey		
10.50	16.00	5.50	3.40	61.82	Highly Weathered Khondalite	Whitesh Grey		
16.00	19.39	3.39	3.29	97.05	Khondalite	Brown		
19.39	19.89	0.50	0.50	100.00	Quartzite	Brownish white		
19.89	24.19	4.30	4.30	100.00	Manganese ore	Black	Manganese	
24.19	29.49	5.30	5.30	100.00	Khondalite with feeble Manganese	Light Brown	Manganese	
29.49	34.72	5.23	5.23	100.00	Calc-silicate	Grey		
34.72	34.90	0.18	0.18	100.00	Khondalite with graphite	Grey	Gaphite	
34.90	35.74	0.84	0.84	100.00	Khondalite	Brown		
35.74	40.89	5.15	5.15	100.00	Calc-silicate	Grey		
40.89	43.39	2.50	2.50	100.00	Khondalite with graphite	Grey	Gaphite	
43.39	48.65	5.26	5.00	95.06	Khondalite	Whitesh Grey		
48.65	50.50	1.85	1.11	60.00	Quartzite	White		

<b>MLB-03</b>								
<b>Run (m)</b>			<b>Recovery Thickness (m)</b>	<b>Recovery (%)</b>	<b>Lithology</b>	<b>Colour</b>	<b>Mineralization Details</b>	<b>Remarks</b>
<b>From</b>	<b>To</b>	<b>Thickness</b>						
0.00	2.00	2.00	2.00	100.00	Top soil	Brown		
2.00	4.00	2.00	2.00	100.00	Manganiferous soil	Black		
4.00	6.00	2.00	2.00	100.00	Soil	Brown		
6.00	10.25	4.25	3.70	87.06	Kaolinised khondalite	Yellowish brown		
10.25	11.00	0.75	0.75	100.00	Manganese ore (low grade)	Yellowish brown	Manganese	
11.00	11.50	0.50	0.50	100.00	Kaolinised khondalite	Yellowish brown		
11.50	12.00	0.50	0.50	100.00	Manganese ore (low grade)	Grey	Manganese	
12.00	28.00	16.00	16.00	100.00	Manganese ore	Black	Manganese	
28.00	30.33	2.33	1.95	83.69	Kaolinised khondalite	White		
30.33	31.00	0.67	0.65	97.01	Manganese ore (low grade)	White	Manganese	
31.00	32.50	1.50	1.50	100.00	Weathered Khondalite	Grey		
32.50	35.50	3.00	3.00	100.00	Quartzite	White		
35.50	36.00	0.50	0.50	100.00	Quarto feldspathic rock with graphite	Grey		
36.00	43.00	7.00	6.00	85.71	Khondalite with minor graphite	Grey	Graphite	
43.00	46.00	3.00	3.00	100.00	Calc-silicate	Grey		

<b>MLB-04</b>								
<b>Run (m)</b>			<b>Recovery Thickness (m)</b>	<b>Recovery (%)</b>	<b>Lithology</b>	<b>Colour</b>	<b>Mineralization Details</b>	<b>Remarks</b>
<b>From</b>	<b>To</b>	<b>Thickness</b>						
0.00	5.00	5.00	5.00	100.00	Top soil	Brown		
5.00	11.00	6.00	6.00	100.00	Manganiferous soil	Greyish Brown	Manganese	
11.00	13.00	2.00	1.15	57.50	Weathered Khondalite	Light Brown		
13.00	17.00	4.00	2.75	68.75	Kaolinised Khondalite	Light yellow		
17.00	17.50	0.50	0.40	80.00	Khondalite	Brown		
17.50	18.00	0.50	0.50	100.00	Kaolinised Khondalite	Grey		
18.00	18.50	0.50	0.50	100.00	Khondalite	Grey		
18.50	21.00	2.50	2.39	95.60	Weathered Khondalite	Grey		
21.00	27.80	6.80	6.35	93.38	Manganese ore	Black	Manganese	
27.80	30.80	3.00	2.27	75.67	Khondalite	Grey		
30.80	31.38	0.58	0.49	84.48	Khondalite with graphite	Light green	Graphite	
31.38	34.70	3.32	2.89	87.05	Khondalite	Light Brown	Graphite	
34.70	46.50	11.80	11.80	100.00	Quartzite	White		

<b>MLB-05</b>								
<b>Run (m)</b>			<b>Recovery Thickness (m)</b>	<b>Recovery (%)</b>	<b>Lithology</b>	<b>Colour</b>	<b>Mineralization Details</b>	<b>Remarks</b>
<b>From</b>	<b>To</b>	<b>Thickness</b>						
0.00	5.50	5.50	5.50	100.00	Top soil	Light Brown		
5.50	11.00	5.50	5.50	100.00	Weathered Khondalite	Grey		
11.00	11.50	0.50	0.50	100.00	Khondalite with manganeses	Black		
11.50	18.05	6.55	6.55	100.00	Manganese ore	Black		Manganese
18.05	19.00	0.95	0.95	100.00	Khondalite	Brown		Manganese
19.00	23.00	4.00	2.58	64.50	Manganese ore (Loose)	Black		Manganese
23.00	24.00	1.00	0.82	82.00	Biotite gneiss	Whitesh Black		Manganese
24.00	24.50	0.50	0.30	60.00	Manganese ore	Black		Manganese
24.50	29.00	4.50	2.76	61.33	Khondalite	Brown		
29.00	31.12	2.12	1.92	90.57	Quartzite	Brown		
31.12	31.74	0.62	0.60	96.77	Khondalite with graphite	Grey		Graphite
31.74	35.68	3.94	3.88	98.48	Quartzite	Grey		
35.68	36.30	0.62	0.62	100.00	Khondalite with graphite	Grey		Graphite
36.30	39.10	2.80	2.55	91.07	Quartzite	White		
39.10	43.10	4.00	4.00	100.00	Khondalite with graphite	Grey		Graphite
43.10	46.82	3.72	3.72	100.00	Khondalite	Light Grey		Graphite
46.82	47.55	0.73	0.73	100.00	Khondalite with graphite	Light green		
47.55	48.07	0.52	0.52	100.00	Khondalite	Light Brown		
48.07	50.00	1.93	1.93	100.00	Quartzite	Greenish White		