

**STATEMENT SHOWING CHEMICAL ANALYSIS REPORT OF PRIMARY BOREHOLE
SAMPLES FOR MANGANESE IN BHARATBAHAL MANGANESE AND GRAPHITE (G3)
BLOCK DIST.-BALANGIR, ODISHA**

Sl. No.	Borehole No.	Sample No.	From (m)	To (m)	Thickness (m)	Mn %	SiO ₂ %	P ₂ O ₅ %	Fe ₂ O ₃ %	MnO ₂ %	Acid Insoluble %
1	MBMG1	MBMG1/1	0.00	1.00	1.00	11.98	41.66	0.17	15.07	10.11	59.62
2	MBMG1	MBMG1/2	1.00	2.00	1.00	7.00	49.37	0.07	16.28	6.70	64.87
3	MBMG1	MBMG1/3	2.00	3.00	1.00	3.07	53.22	0.04	12.41	2.95	74.24
4	MBMG1	MBMG1/4	24.00	25.50	1.50	3.89	63.20	0.67	17.12	3.29	75.91
5	MBMG1	MBMG1/5	25.50	27.00	1.50	7.20	32.04	0.81	11.45	6.51	41.15
6	MBMG1	MBMG1/6	27.00	28.50	1.50	6.92	41.98	0.56	9.79	6.86	53.97
7	MBMG1	MBMG1/7	28.50	30.00	1.50	4.80	51.60	0.31	5.28	4.35	73.56
8	MBMG2	MBMG2/1	0.00	1.00	1.00	7.58	38.45	0.11	15.10	7.02	55.58
9	MBMG2	MBMG2/2	1.00	2.00	1.00	10.39	29.00	0.07	18.76	8.23	41.77
10	MBMG2	MBMG2/3	2.00	3.00	1.00	8.12	32.69	0.06	17.62	7.78	47.94
11	MBMG4	MBMG4/1	0.00	1.00	1.00	4.89	43.16	0.21	15.42	2.43	60.83
12	MBMG4	MBMG4/2	1.00	2.00	1.00	11.12	31.61	0.10	17.56	7.81	44.31
13	MBMG4	MBMG4/3	2.00	3.00	1.00	9.99	33.43	0.09	17.56	8.50	50.24
14	MBMG4	MBMG4/4	3.00	4.00	1.00	4.82	41.34	0.07	14.73	4.24	57.80
15	MBMG4	MBMG4/5	33.00	34.00	1.00	3.16	48.92	2.04	7.35	1.25	65.76
16	MBMG4	MBMG4/6	34.00	35.10	1.10	22.68	26.40	0.88	8.39	7.26	36.77
17	MBMG4	MBMG4/7	35.10	36.50	1.40	27.97	16.92	1.28	18.74	18.20	23.70
18	MBMG4	MBMG4/8	36.50	38.20	1.70	35.65	14.92	0.56	15.12	27.27	22.66
19	MBMG4	MBMG4/9	38.20	39.60	1.40	4.42	70.66	0.33	14.17	<0.10	78.17
20	MBMG5	MBMG 05/06	78.00	79.00	1.00	1.07	56.96	0.19	5.02	0.15	70.14
21	MBMG6	MBMG-06/01	2.00	3.00	1.00	2.7	53.1	0.1	12.3	2.1	68.8
22	MBMG6	MBMG-06/02	3.00	4.00	1.00	6.77	44.08	0.12	16.99	7.01	60.64
23	MBMG6	MBMG-06/03	4.00	5.00	1.00	9.60	39.11	0.14	19.16	9.52	55.36
24	MBMG6	MBMG-06/04	5.00	6.00	1.00	10.61	40.43	0.19	21.70	10.03	56.25
25	MBMG6	MBMG-06/05	6.00	7.00	1.00	9.33	47.21	0.27	16.98	6.19	64.75
26	MBMG6	MBMG-06/06	7.00	8.00	1.00	8.27	46.30	0.33	17.18	5.37	63.64
27	MBMG6	MBMG-06/07	8.00	9.00	1.00	8.22	49.54	0.23	13.16	6.55	68.81
28	MBMG6	MBMG-06/08	9.00	10.00	1.00	21.50	11.91	0.41	37.44	22.30	14.66
29	MBMG6	MBMG-06/09	10.00	11.00	1.00	14.73	37.10	1.35	21.70	14.86	45.83
30	MBMG6	MBMG-06/10	11.00	12.00	1.00	17.86	45.27	1.51	18.69	17.79	50.51
31	MBMG6	MBMG-06/11	12.00	13.00	1.00	4.87	52.32	0.48	30.25	4.94	57.29
32	MBMG6	MBMG-06/12	13.00	14.00	1.00	7.65	53.53	0.98	26.10	7.77	58.91
33	MBMG6	MBMG-06/13	14.00	15.00	1.00	9.25	49.98	0.75	24.25	10.37	57.45
34	MBMG6	MBMG-06/16	18.00	19.50	1.50	4.46	49.06	0.75	16.59	5.76	63.24
35	MBMG6	MBMG-06/17	19.50	20.50	1.00	2.25	55.03	0.48	14.16	4.55	60.40
36	MBMG6	MBMG-06/18	20.50	21.50	1.00	2.34	50.64	0.19	6.77	1.67	67.92
37	MBMG7	MBMG 07/1	1.00	2.00	1.00	8.4	47.7	0.1	16.7	7.4	63.0
38	MBMG7	MBMG 07/2	2.00	3.00	1.00	8.62	46.80	0.07	17.17	8.21	62.22
39	MBMG7	MBMG 07/3	3.00	4.00	1.00	9.03	46.34	0.07	18.97	8.40	61.39

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40	MBMG7	MBMG 07/4	4.00	5.00	1.00	4.85	44.26	0.07	15.94	5.09	61.00
41	MBMG7	MBMG 07/5	5.00	6.00	1.00	2.16	46.79	1.26	11.70	2.04	62.66
42	MBMG7	MBMG 07/6	6.00	7.00	1.00	1.66	44.51	1.65	13.57	1.54	57.25
43	MBMG7	MBMG 07/7	7.00	8.00	1.00	0.70	50.42	1.49	13.77	0.44	64.67
44	MBMG7	MBMG 07/8	8.00	9.00	1.00	0.69	45.41	1.07	13.76	0.49	55.03
45	MBMG7	MBMG 07/9	9.00	10.00	1.00	1.31	47.23	0.83	16.86	1.02	57.81
46	MBMG7	MBMG 07/10	10.00	11.00	1.00	1.78	44.49	1.05	14.45	2.04	54.28
47	MBMG7	MBMG 07/11	20.00	21.00	1.00	9.11	38.16	1.23	13.01	9.48	50.96
48	MBMG7	MBMG 07/12	21.50	22.00	0.50	26.23	16.18	0.47	24.30	27.22	20.54
49	MBMG7	MBMG 07/13	22.00	23.00	1.00	13.84	27.88	0.49	28.92	14.74	32.62
50	MBMG7	MBMG 07/14	23.00	24.00	1.00	12.26	35.49	0.77	24.08	12.73	43.16
51	MBMG7	MBMG 07/15	24.00	25.00	1.00	8.02	45.56	1.78	13.05	8.33	58.57
52	MBMG8	MBMG-08/01	2.50	3.50	1.00	4.1	43.5	0.1	16.5	3.4	58.7
53	MBMG8	MBMG-08/02	3.50	4.50	1.00	3.81	42.24	0.18	16.50	3.01	58.70
54	MBMG8	MBMG-08/03	4.50	5.50	1.00	4.36	44.41	0.25	16.59	3.41	60.62