

Analytical Details of Primary Samples for Manganese for Six (Mn, SiO₂, P₂O₅, Fe₂O₃, MnO₂ & Acid Insoluble) Radicals collected from channels & trenches excavated by MECL in Nagardhan (G3) Block, District: Nagpur, Maharashtra

S.No.	Sample No.	Location of sample from starting of trench (m)		Length of sample (m)	Mn %	SiO ₂ %	P ₂ O ₅ %	Fe ₂ O ₃ %	MnO ₂ %	Acid Insoluble
		From	To							
Trench-1										
Latitude - 21° 19' 37.04"				Longitude - 79° 19' 30.72"				Azimuth of Trench towards - S25°W		
1	MNB/TR1/01	0.00	1.00	1.00	7.51	34.46	0.05	19.95	8.22	46.91
2	MNB/TR1/02	1.00	1.50	0.50	28.74	33.19	0.22	10.51	11.16	67.20
3	MNB/TR1/03	1.50	2.00	0.50	23.58	45.01	0.39	8.77	8.16	78.63
4	MNB/TR1/04	2.00	3.00	1.00	7.06	35.83	0.06	20.39	9.08	49.33
Trench-2										
Latitude - 21° 19' 36.43"				Longitude - 79° 19' 32.24"				Azimuth of Trench towards - S27°W		
5	MNB/TR2/01	1.00	2.00	1.00	4.18	36.82	0.04	20.92	5.49	52.72
6	MNB/TR2/02	2.00	3.00	1.00	10.88	32.56	0.11	16.83	14.13	49.87
7	MNB/TR2/03	3.00	3.70	0.70	20.22	29.83	0.12	14.21	12.33	55.09
8	MNB/TR2/04	3.70	4.40	0.70	17.95	32.97	0.14	13.22	9.36	64.10
9	MNB/TR2/05	4.40	5.10	0.70	19.66	35.68	0.30	12.57	6.68	63.85
10	MNB/TR2/06	5.10	5.80	0.70	22.32	29.67	0.14	10.50	14.83	59.89
11	MNB/TR2/07	5.80	6.50	0.70	22.41	34.02	0.71	12.55	10.18	67.27
12	MNB/TR2/08	6.50	7.20	0.70	18.83	25.62	0.56	24.93	6.63	55.99
13	MNB/TR2/09	7.20	8.20	1.00	2.77	39.57	0.03	15.49	3.39	63.22
Trench-3										
Latitude - 21° 19' 35.77"				Longitude - 79° 19' 28.24"				Azimuth of Trench towards - S21°W		
14	MNB/TR3/01	0.00	1.00	1.00	3.95	33.37	0.06	23.42	4.03	48.29
15	MNB/TR3/02	1.00	2.00	1.00	4.33	37.30	0.06	20.91	4.55	55.35
16	MNB/TR3/03	2.00	3.00	1.00	3.34	34.33	0.05	22.79	3.63	52.53
17	MNB/TR3/04	3.00	4.00	1.00	3.77	34.56	0.04	23.22	4.15	50.98
18	MNB/TR3/05	4.00	4.70	0.70	2.50	39.66	0.03	22.81	2.54	59.42
19	MNB/TR3/06	4.70	5.40	0.70	3.39	36.81	0.04	23.56	3.38	53.75
20	MNB/TR3/07	5.40	6.10	0.70	3.83	33.47	0.04	22.67	3.60	49.05
21	MNB/TR3/08	6.10	6.80	0.70	3.41	35.55	0.03	21.22	4.00	56.88
22	MNB/TR3/09	6.80	7.50	0.70	3.72	34.89	0.03	22.36	4.22	50.99
23	MNB/TR3/10	7.50	8.20	0.70	3.56	33.44	0.04	24.48	3.40	53.19
24	MNB/TR3/11	8.20	8.90	0.70	4.05	32.69	0.04	24.47	4.48	48.25
25	MNB/TR3/12	8.90	9.60	0.70	4.47	33.75	0.04	22.12	5.26	50.43
26	MNB/TR3/13	9.60	10.60	1.00	3.64	33.40	0.04	23.31	4.84	51.96

S.No.	Sample No.	Location of sample from starting of trench (m)		Length of sample (m)	Mn %	SiO ₂ %	P ₂ O ₅ %	Fe ₂ O ₃ %	MnO ₂ %	Acid Insoluble
		From	To							
Trench-4										
Latitude - 21° 19' 38.59"				Longitude - 79° 19' 24.24"				Azimuth of Trench towards - S25°W		
27	MNB/TR4/01	0.00	1.00	1.00	7.13	42.83	0.05	10.57	5.41	70.20
28	MNB/TR4/02	1.00	2.00	1.00	5.14	44.31	0.04	12.59	3.73	69.10
29	MNB/TR4/03	2.00	3.00	1.00	0.54	48.23	0.04	11.85	0.36	65.18
30	MNB/TR4/04	3.00	4.00	1.00	0.62	50.78	0.05	10.90	0.39	69.74
31	MNB/TR4/05	4.00	5.00	1.00	9.14	48.73	0.06	10.65	4.72	72.81
32	MNB/TR4/06	5.00	5.75	0.75	17.87	30.16	0.17	17.70	14.15	56.79
33	MNB/TR4/07	5.75	6.50	0.75	16.18	42.58	0.28	13.14	8.71	72.11
34	MNB/TR4/08	6.50	7.25	0.75	17.10	38.63	0.16	14.87	14.52	59.76
35	MNB/TR4/09	7.25	8.00	0.75	13.82	35.63	0.12	16.10	10.16	58.26
36	MNB/TR4/10	8.00	8.75	0.75	18.36	39.61	0.49	14.47	12.70	67.91
37	MNB/TR4/11	8.75	9.50	0.75	7.21	42.18	0.14	18.69	8.71	60.83
38	MNB/TR4/12	9.50	10.25	0.75	0.71	52.80	0.03	11.15	0.36	78.53
39	MNB/TR4/13	10.25	11.25	1.00	4.29	58.65	0.08	9.39	2.54	78.32
40	MNB/TR4/14	11.25	12.25	1.00	0.86	51.63	0.04	11.51	0.79	73.41
41	MNB/TR4/15	12.25	13.25	1.00	6.65	46.88	0.07	12.43	3.99	66.45
Trench-5										
Latitude - 21° 19' 38.55"				Longitude - 79° 19' 25.32"				Azimuth of Trench towards - S12°W		
42	MNB/TR5/01	0.00	1.00	1.00	23.90	32.42	0.21	15.36	13.79	65.40
43	MNB/TR5/02	1.00	2.00	1.00	17.86	47.22	0.14	12.25	9.44	68.61
Channel-1										
Latitude - 21° 19' 50.11"				Longitude - 79° 18' 37.60"				Azimuth of Trench towards - S15°W		
44	MNB/CH1/01	0.00	1.00	1.00	28.82	24.20	0.56	11.44	5.44	69.62
45	MNB/CH1/02	1.00	2.20	1.20	26.59	26.63	0.19	11.26	5.81	65.77