

**Statement showing details of Chemical Analysis carried out for Primary samples generated  
from exploratory boreholes drilled by MECL in Mundra-Chilai Block,**

**District: Yavatmal, Maharashtra**

**BOREHOLE NO: MMC-01**

Sl. No.	From (m)	To (m)	Thick-ness (m)	Sample No	CaO %	MgO %	Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	SO <sub>3</sub> %	P <sub>2</sub> O <sub>5</sub> %	K <sub>2</sub> O %	Na <sub>2</sub> O %	LOI %
1	2.50	4.00	1.50	MMC-01-01	31.16	17.90	1.21	3.49	0.79	0.02	0.05	0.08	0.03	44.97
2	4.00	6.00	2.00	MMC-01-02	31.53	19.15	0.33	0.92	0.14	0.02	0.06	0.04	0.05	47.56
3	6.00	8.00	2.00	MMC-01-03	32.58	19.34	0.34	0.79	0.19	0.03	0.04	0.04	0.06	46.39
4	8.00	10.00	2.00	MMC-01-04	32.44	19.49	0.22	0.91	0.14	0.03	0.03	0.03	0.03	46.49
5	10.00	12.00	2.00	MMC-01-05	31.75	19.19	0.26	0.76	0.13	0.03	0.04	0.03	0.05	47.59
6	12.00	14.00	2.00	MMC-01-06	32.01	19.10	0.33	1.03	0.15	0.03	0.03	0.04	0.05	47.02
7	14.00	16.00	2.00	MMC-01-07	32.55	19.08	0.43	1.09	0.17	0.03	0.05	0.05	0.06	46.29
8	16.00	18.00	2.00	MMC-01-08	32.77	17.31	0.99	2.87	0.46	0.03	0.15	0.09	0.06	45.02
9	18.00	20.00	2.00	MMC-01-09	33.15	18.12	0.56	1.27	0.27	0.02	0.08	0.05	0.04	46.24
10	20.00	22.00	2.00	MMC-01-10	32.68	19.21	0.28	0.68	0.15	0.02	0.05	0.03	0.06	46.66
11	22.00	24.00	2.00	MMC-01-11	31.62	18.61	0.29	0.69	0.12	0.02	0.05	0.03	0.04	48.34
12	24.00	26.00	2.00	MMC-01-12	31.57	18.88	0.31	0.64	0.12	0.02	0.07	0.04	0.05	48.09
13	26.00	28.00	2.00	MMC-01-13	32.61	19.20	0.33	0.75	0.14	0.02	0.05	0.05	0.06	46.58
14	28.00	30.00	2.00	MMC-01-14	32.20	18.82	0.71	1.79	0.19	0.02	0.09	0.09	0.05	45.81
15	30.00	32.00	2.00	MMC-01-15	32.96	19.29	0.34	1.02	0.13	0.02	0.25	0.04	0.05	45.67
16	32.00	34.00	2.00	MMC-01-16	33.15	18.96	0.70	1.41	0.20	0.03	0.43	0.10	0.06	44.78
17	34.00	36.00	2.00	MMC-01-17	32.66	19.16	0.31	0.88	0.10	0.03	0.17	0.03	0.06	46.39
18	36.00	38.00	2.00	MMC-01-18	31.42	18.83	0.14	0.37	0.09	0.02	0.02	0.01	0.05	48.85
19	38.00	40.00	2.00	MMC-01-19	31.37	18.91	0.13	0.27	0.08	0.02	0.03	0.01	0.05	48.96
20	40.00	42.00	2.00	MMC-01-20	32.43	19.11	0.17	0.39	0.11	0.03	0.04	0.01	0.06	47.48
21	42.00	44.00	2.00	MMC-01-21	32.97	19.42	0.19	0.44	0.11	0.03	0.06	0.01	0.05	46.54
22	44.00	46.00	2.00	MMC-01-22	32.83	18.67	0.65	1.02	0.18	0.03	1.00	0.03	0.05	45.16
23	46.00	48.00	2.00	MMC-01-23	32.25	18.70	0.76	1.31	0.20	0.03	0.76	0.07	0.06	45.50
24	48.00	50.00	2.00	MMC-01-24	33.38	19.47	0.16	0.44	0.09	0.02	0.09	0.02	0.05	46.11

**BOREHOLE NO: MMC-02**

Sl. No.	From (m)	To (m)	Thick-ness (m)	Sample No	CaO %	MgO %	Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	SO <sub>3</sub> %	P <sub>2</sub> O <sub>5</sub> %	K <sub>2</sub> O %	Na <sub>2</sub> O %	LOI %
1	3.00	4.00	1.00	MMC-02-01	32.54	18.89	0.52	1.94	0.23	0.04	0.07	0.08	0.06	45.45
2	4.00	6.00	2.00	MMC-02-02	33.26	19.12	0.32	0.84	0.15	0.02	0.10	0.06	0.04	45.93
3	6.00	8.00	2.00	MMC-02-03	33.15	19.14	0.33	0.98	0.16	0.02	0.12	0.06	0.04	45.82
4	8.00	10.00	2.00	MMC-02-04	33.12	18.80	0.45	1.42	0.18	0.03	0.10	0.07	0.04	45.60
5	10.00	12.00	2.00	MMC-02-05	32.81	15.39	1.28	6.83	0.42	0.04	0.05	0.20	0.03	42.74
6	12.00	14.00	2.00	MMC-02-06	39.11	9.658	1.39	7.55	0.48	0.04	0.07	0.26	0.02	41.21
7	14.00	16.00	2.00	MMC-02-07	33.94	12.72	1.52	9.48	0.58	0.05	0.11	0.24	0.03	41.11
8	16.00	18.00	2.00	MMC-02-08	33.70	17.79	0.73	2.72	0.28	0.05	0.07	0.10	0.02	44.32
9	18.00	20.00	2.00	MMC-02-09	33.33	18.10	0.61	2.33	0.25	0.06	0.06	0.09	0.05	44.90
10	20.00	22.00	2.00	MMC-02-10	31.25	17.59	1.32	4.76	0.47	0.06	0.06	0.20	0.03	44.06

Sl. No.	From (m)	To (m)	Thick-ness (m)	Sample No	CaO %	MgO %	Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	SO <sub>3</sub> %	P <sub>2</sub> O <sub>5</sub> %	K <sub>2</sub> O %	Na <sub>2</sub> O %	LOI %
11	22.00	24.00	2.00	MMC-02-11	32.90	17.92	0.65	2.66	0.25	0.05	0.06	0.10	0.04	45.21
12	24.00	26.00	2.00	MMC-02-12	33.67	19.32	0.14	0.77	0.11	0.02	0.08	0.02	0.03	45.69
13	26.00	28.00	2.00	MMC-02-13	33.49	19.31	0.23	1.26	0.11	0.02	0.07	0.04	0.03	45.28
14	28.00	30.00	2.00	MMC-02-14	33.36	19.15	0.35	1.60	0.13	0.03	0.07	0.05	0.04	45.08
15	30.00	32.00	2.00	MMC-02-15	33.24	19.13	0.11	3.33	0.09	0.02	0.05	0.02	0.04	43.82
16	32.00	34.00	2.00	MMC-02-16	33.34	19.27	0.30	1.25	0.18	0.03	0.11	0.04	0.05	45.25
17	34.00	36.00	2.00	MMC-02-17	33.04	19.24	0.13	1.89	0.12	0.02	0.17	0.02	0.05	45.15
18	36.00	38.00	2.00	MMC-02-18	33.16	19.33	0.10	1.44	0.12	0.02	0.05	0.01	0.05	45.55
19	38.00	40.00	2.00	MMC-02-19	33.34	19.29	0.10	1.45	0.11	0.02	0.11	0.01	0.06	45.34
20	40.00	42.00	2.00	MMC-02-20	33.18	19.26	0.17	0.99	0.13	0.02	0.05	0.02	0.05	45.95
21	42.00	44.00	2.00	MMC-02-21	33.39	19.11	0.26	0.97	0.15	0.03	0.14	0.02	0.04	45.69
22	44.00	46.00	2.00	MMC-02-22	32.87	19.98	0.19	0.68	0.13	0.03	0.08	0.01	0.04	45.83
23	46.00	48.00	2.00	MMC-02-23	32.60	20.30	0.16	1.35	0.12	0.03	0.07	0.02	0.04	45.15
24	48.00	50.00	2.00	MMC-02-24	32.40	20.10	0.27	1.65	0.15	0.02	0.12	0.02	0.06	45.04

#### BOREHOLE NO: MMC-03

Sl. No.	From (m)	To (m)	Thick-ness (m)	Sample No	CaO %	MgO %	Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	SO <sub>3</sub> %	P <sub>2</sub> O <sub>5</sub> %	K <sub>2</sub> O %	Na <sub>2</sub> O %	LOI %
1	1.00	2.00	1.00	MMC-03-01	1.43	2.05	17.35	54.49	9.56	0.04	0.04	1.29	0.14	11.33
2	2.00	4.00	2.00	MMC-03-02	33.79	19.54	0.32	0.73	0.26	0.01	0.04	0.02	0.03	45.04
3	4.00	6.00	2.00	MMC-03-03	36.38	16.04	0.62	1.79	0.51	0.01	0.03	0.02	0.03	44.34
4	6.00	8.00	2.00	MMC-03-04	33.45	20.30	0.15	0.29	0.15	0.01	0.06	0.02	0.03	45.40
5	8.00	10.00	2.00	MMC-03-05	33.15	20.22	0.19	0.44	0.17	0.01	0.06	0.02	0.03	45.53
6	10.00	12.00	2.00	MMC-03-06	33.34	20.23	0.14	0.22	0.17	0.01	0.06	0.01	0.01	45.65
7	12.00	14.00	2.00	MMC-03-07	33.24	20.02	0.18	0.33	0.16	0.01	0.07	0.02	0.03	45.77
8	14.00	16.00	2.00	MMC-03-08	33.08	19.80	0.43	0.64	0.19	0.01	0.15	0.04	0.04	45.44
9	16.00	18.00	2.00	MMC-03-09	33.18	19.92	0.38	0.55	0.18	0.01	0.11	0.04	0.03	45.43
10	18.00	20.00	2.00	MMC-03-10	33.34	19.81	0.47	0.73	0.20	0.01	0.11	0.06	0.02	45.10
11	20.00	22.00	2.00	MMC-03-11	31.43	18.47	1.91	2.88	0.45	0.02	0.18	0.25	0.04	44.14
12	22.00	24.00	2.00	MMC-03-12	32.63	19.43	0.99	1.49	0.25	0.02	0.09	0.14	0.06	44.64
13	24.00	26.00	2.00	MMC-03-13	32.58	19.40	0.61	0.95	0.21	0.02	0.07	0.09	0.06	45.78
14	26.00	28.00	2.00	MMC-03-14	32.00	18.93	0.99	1.73	0.31	0.03	0.05	0.16	0.07	45.44
15	28.00	30.00	2.00	MMC-03-15	32.48	19.16	0.69	1.31	0.26	0.03	0.04	0.13	0.06	45.58
16	30.00	32.00	2.00	MMC-03-16	33.54	19.44	0.27	0.50	0.14	0.02	0.03	0.05	0.04	45.80
17	32.00	34.00	2.00	MMC-03-17	33.46	19.38	0.40	0.78	0.15	0.02	0.04	0.07	0.06	45.39
18	34.00	36.00	2.00	MMC-03-18	32.85	19.11	0.43	1.15	0.19	0.04	0.02	0.07	0.04	45.91
19	36.00	38.00	2.00	MMC-03-19	32.90	19.06	0.45	1.22	0.24	0.04	0.03	0.08	0.05	45.73
20	38.00	40.00	2.00	MMC-03-20	32.49	18.53	0.85	2.17	0.27	0.04	0.10	0.13	0.04	45.16
21	40.00	42.00	2.00	MMC-03-21	32.32	18.30	0.88	2.72	0.26	0.04	0.03	0.14	0.03	45.09
22	42.00	44.00	2.00	MMC-03-22	32.01	17.73	0.92	4.33	0.25	0.05	0.02	0.14	0.03	44.36
23	44.00	46.00	2.00	MMC-03-23	30.76	16.70	1.65	6.25	0.38	0.04	0.04	0.28	0.04	43.64
24	46.00	48.00	2.00	MMC-03-24	30.07	16.14	1.84	7.93	0.56	0.03	0.07	0.33	0.03	42.80
25	48.00	50.00	2.00	MMC-03-25	31.17	16.79	1.47	5.67	0.46	0.04	0.04	0.28	0.04	43.83

**BOREHOLE NO: MMC-05**

Sl. No.	From (m)	To (m)	Thick-ness (m)	Sample No	CaO %	MgO %	Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	SO <sub>3</sub> %	P <sub>2</sub> O <sub>5</sub> %	K <sub>2</sub> O %	Na <sub>2</sub> O %	LOI %
1	0.00	2.00	1.00	MMC-05-01	33.85	18.72	0.14	0.40	0.17	0.02	0.06	0.01	0.05	46.39
2	2.00	4.00	2.00	MMC-05-02	33.57	18.81	0.21	0.40	0.17	0.02	0.04	0.01	0.05	46.53
3	4.00	6.00	2.00	MMC-05-03	33.52	18.95	0.12	0.36	0.13	0.02	0.03	0.01	0.05	46.62
4	6.00	8.00	2.00	MMC-05-04	32.48	18.16	0.15	0.39	0.16	0.02	0.02	0.01	0.04	48.38
5	8.00	10.00	2.00	MMC-05-05	31.91	18.10	0.11	0.52	0.12	0.02	0.02	0.01	0.04	48.97
6	10.00	12.00	2.00	MMC-05-06	33.67	18.71	0.06	0.51	0.09	0.02	0.02	0.01	0.04	46.71
7	12.00	14.00	2.00	MMC-05-07	32.91	18.47	0.11	0.31	0.12	0.02	0.02	0.01	0.05	47.66
8	14.00	16.00	2.00	MMC-05-08	32.64	18.33	0.08	0.17	0.09	0.02	0.01	0.01	0.05	48.41
9	16.00	18.00	2.00	MMC-05-09	34.21	18.77	0.11	0.28	0.10	0.03	0.02	0.01	0.06	46.22
10	18.00	20.00	2.00	MMC-05-10	33.69	18.73	0.07	0.14	0.09	0.02	0.01	0.01	0.04	47.02
11	20.00	22.00	2.00	MMC-05-11	33.94	18.63	0.14	0.24	0.10	0.03	0.01	0.02	0.05	46.58
12	22.00	24.00	2.00	MMC-05-12	33.91	18.50	0.23	0.38	0.13	0.02	0.02	0.03	0.04	46.56
13	24.00	26.00	2.00	MMC-05-13	33.06	18.32	0.22	0.45	0.14	0.03	0.01	0.03	0.06	47.49
14	26.00	28.00	2.00	MMC-05-14	33.77	18.37	0.32	0.60	0.17	0.02	0.04	0.05	0.05	46.39
15	28.00	30.00	2.00	MMC-05-15	33.43	18.09	0.43	1.55	0.20	0.01	0.07	0.07	0.05	45.92
16	30.00	32.00	2.00	MMC-05-16	33.77	18.34	0.40	0.73	0.19	0.02	0.06	0.06	0.04	46.19
17	32.00	34.00	2.00	MMC-05-17	34.08	18.37	0.33	0.64	0.17	0.01	0.06	0.05	0.04	46.06
18	34.00	36.00	2.00	MMC-05-18	34.14	18.33	0.42	0.63	0.18	0.01	0.09	0.07	0.02	45.92
19	36.00	38.00	2.00	MMC-05-19	33.64	18.26	0.43	0.93	0.22	0.01	0.07	0.07	0.04	46.12
20	38.00	40.00	2.00	MMC-05-20	33.87	18.21	0.43	0.64	0.17	0.02	0.08	0.07	0.01	46.34
21	40.00	42.00	2.00	MMC-05-21	33.68	18.15	0.54	0.81	0.23	0.02	0.07	0.10	0.02	46.22
22	42.00	44.00	2.00	MMC-05-22	33.72	17.97	0.60	0.87	0.24	0.03	0.08	0.11	0.03	46.16
23	44.00	46.00	2.00	MMC-05-23	33.42	17.65	0.91	1.36	0.30	0.03	0.08	0.16	0.03	45.86
24	46.00	48.00	2.00	MMC-05-24	32.61	17.31	1.36	2.45	0.37	0.03	0.11	0.23	0.04	45.26
25	48.00	50.00	2.00	MMC-05-25	33.00	17.51	1.02	2.12	0.37	0.04	0.08	0.19	0.04	45.46