

**Statement showing details of Chemical Analysis carried out for Primary samples generated
from exploratory boreholes drilled by MECL in Hiwardhara Ganeshpura Block,
District: Yavatmal, Maharashtra**

BOREHOLE NO: MHG-01

Sl. No.	From (m)	To (m)	Thick-ness (m)	Sample No	CaO %	MgO %	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SO ₃ %	P ₂ O ₅ %	K ₂ O %	Na ₂ O %	LOI %
1	0.00	2.00	2.00	MHG-01-01	32.54	16.10	1.03	4.59	0.61	0.083	0.04	0.18	0.04	44.57
2	2.00	4.00	2.00	MHG-01-02	32.19	16.03	1.31	5.06	0.53	0.108	0.02	0.24	0.03	44.31
3	4.00	6.00	2.00	MHG-01-03	32.21	15.56	1.27	5.46	0.41	0.084	0.02	0.21	0.03	44.51
4	6.00	8.00	2.00	MHG-01-04	31.22	14.90	1.86	7.79	0.50	0.080	0.03	0.31	0.03	43.07
5	8.00	10.00	2.00	MHG-01-05	30.35	14.36	2.38	9.10	0.73	0.080	0.04	0.42	0.04	42.28
6	10.00	12.00	2.00	MHG-01-06	29.70	14.19	2.53	10.30	0.71	0.069	0.05	0.41	0.04	41.76
7	12.00	14.00	2.00	MHG-01-07	30.74	14.84	2.30	8.17	0.63	0.096	0.04	0.39	0.05	42.60
8	14.00	15.65	1.65	MHG-01-08	32.69	15.82	0.81	8.36	0.34	0.138	0.02	0.12	0.04	41.52
9	15.65	17.35	1.70	MHG-01-09	33.27	16.39	0.86	4.20	0.32	0.111	0.02	0.12	0.01	44.50
10	17.35	19.35	2.00	MHG-01-10	31.88	13.90	1.85	8.76	0.51	0.342	0.02	0.29	0.02	42.28
11	25.00	27.00	2.00	MHG-01-11	30.84	15.27	1.60	6.18	0.82	0.118	0.08	0.25	0.04	44.64
12	27.00	28.70	1.70	MHG-01-12	32.91	16.21	1.09	4.14	0.38	0.136	0.02	0.15	0.04	44.78
13	34.30	36.00	1.70	MHG-01-13	32.48	16.00	1.42	5.07	0.37	0.219	0.05	0.22	0.04	44.01
14	36.00	38.00	2.00	MHG-01-14	28.96	14.19	2.09	13.35	0.58	0.172	0.03	0.30	0.03	40.13
15	38.00	40.00	2.00	MHG-01-15	33.09	16.92	0.99	3.27	0.30	0.106	0.02	0.14	0.03	44.95
16	40.00	42.00	2.00	MHG-01-16	32.33	16.57	1.32	4.54	0.40	0.156	0.02	0.18	0.03	44.32
17	42.00	44.00	2.00	MHG-01-17	29.46	14.58	2.82	9.29	0.89	0.193	0.02	0.47	0.03	42.02
18	44.00	46.00	2.00	MHG-01-18	32.04	16.56	1.32	4.63	0.34	0.114	0.02	0.20	0.04	44.62
19	46.00	48.00	2.00	MHG-01-19	32.09	16.87	1.07	4.31	0.31	0.147	0.01	0.16	0.04	44.77
20	48.00	50.00	2.00	MHG-01-20	32.39	17.03	0.99	3.83	0.31	0.152	0.01	0.13	0.03	44.97

BOREHOLE NO: MHG-02

Sl. No.	From (m)	To (m)	Thick-ness (m)	Sample No	CaO %	MgO %	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SO ₃ %	P ₂ O ₅ %	K ₂ O %	Na ₂ O %	LOI %
1	18.00	20.00	2.00	MHG-02-01	9.07	3.07	14.91	48.63	5.21	0.018	0.14	2.82	0.08	15.23
2	20.00	22.00	2.00	MHG-02-02	23.27	7.88	7.84	25.32	2.00	0.086	0.06	1.05	0.04	31.94
3	22.00	24.00	2.00	MHG-02-03	32.76	16.65	1.02	4.03	0.34	0.129	0.04	0.17	0.04	44.65
4	24.00	26.00	2.00	MHG-02-04	30.13	15.61	2.33	8.85	0.65	0.316	0.06	0.40	0.05	41.44
5	26.00	28.00	2.00	MHG-02-05	26.48	15.87	2.85	13.58	0.72	0.508	0.06	0.50	0.05	39.24
6	32.30	34.00	1.70	MHG-02-06	28.34	17.09	2.19	8.71	0.75	0.324	0.06	0.35	0.05	42.00
7	34.00	36.00	2.00	MHG-02-07	29.92	18.66	0.88	3.67	0.30	0.164	0.02	0.13	0.04	46.08
8	36.00	38.00	2.00	MHG-02-08	28.28	17.27	1.47	7.32	0.43	0.182	0.02	0.23	0.03	44.62
9	38.00	40.00	2.00	MHG-02-09	28.35	17.16	2.03	9.09	0.55	0.158	0.02	0.30	0.04	42.14
10	40.00	42.00	2.00	MHG-02-10	28.95	17.31	1.93	7.73	0.54	0.246	0.04	0.33	0.05	42.75
11	42.00	44.00	2.00	MHG-02-11	28.58	17.34	2.08	8.11	0.44	0.258	0.03	0.36	0.05	42.53
12	44.00	46.00	2.00	MHG-02-12	28.04	16.59	2.71	9.14	0.48	0.314	0.05	0.43	0.05	42.03
13	46.00	48.00	2.00	MHG-02-13	29.41	17.67	1.84	6.09	0.45	0.340	0.03	0.29	0.05	43.71
14	48.00	50.00	2.00	MHG-02-14	28.45	17.60	0.54	6.65	0.26	0.257	0.02	0.07	0.02	45.95

BOREHOLE NO: MHG-03

Sl. No.	From (m)	To (m)	Thickness (m)	Sample No	CaO %	MgO %	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SO ₃ %	P ₂ O ₅ %	K ₂ O %	Na ₂ O %	LOI %
1	0.00	2.00	2.00	MHG-03-01	33.18	16.41	1.21	3.16	0.69	0.020	0.05	0.07	0.04	44.98
2	2.00	4.00	2.00	MHG-03-02	32.81	19.85	0.17	0.38	0.12	0.030	0.04	0.02	0.04	46.36
3	4.00	6.00	2.00	MHG-03-03	33.22	18.55	0.28	0.56	0.14	0.036	0.05	0.03	0.05	46.89
4	6.00	8.00	2.00	MHG-03-04	32.43	19.74	0.12	0.21	0.09	0.020	0.05	0.01	0.03	47.12
5	8.00	10.00	2.00	MHG-03-05	32.61	19.77	0.40	0.73	0.16	0.038	0.11	0.06	0.06	45.89
6	10.00	12.00	2.00	MHG-03-06	32.65	19.47	0.57	1.13	0.19	0.041	0.08	0.10	0.05	45.55
7	12.00	14.00	2.00	MHG-03-07	32.19	19.56	0.51	0.93	0.15	0.038	0.08	0.09	0.05	46.22
8	14.00	16.00	2.00	MHG-03-08	32.68	19.53	0.42	0.75	0.14	0.033	0.05	0.07	0.06	46.08
9	16.00	18.00	2.00	MHG-03-09	32.76	19.61	0.30	0.61	0.11	0.029	0.05	0.06	0.06	46.29
10	18.00	20.00	2.00	MHG-03-10	31.92	19.15	0.65	1.15	0.22	0.036	0.08	0.11	0.06	46.49
11	20.00	22.00	2.00	MHG-03-11	32.36	19.03	0.77	1.35	0.23	0.047	0.11	0.13	0.06	45.80
12	22.00	24.00	2.00	MHG-03-12	32.64	19.33	0.54	1.00	0.15	0.034	0.07	0.10	0.05	45.96
13	24.00	26.00	2.00	MHG-03-13	29.08	17.30	1.25	2.46	0.29	0.048	0.15	0.22	0.08	49.02
14	26.00	28.00	2.00	MHG-03-14	31.98	18.80	0.77	1.80	0.23	0.046	0.13	0.15	0.06	45.84
15	28.00	30.00	2.00	MHG-03-15	32.26	18.78	0.86	1.97	0.22	0.035	0.15	0.15	0.06	45.35
16	30.00	32.00	2.00	MHG-03-16	31.96	18.47	0.96	2.42	0.23	0.049	0.14	0.18	0.08	45.39
17	32.00	34.00	2.00	MHG-03-17	32.56	19.20	0.53	1.03	0.20	0.045	0.09	0.09	0.05	46.05
18	34.00	36.00	2.00	MHG-03-18	31.16	18.83	0.33	0.62	0.11	0.029	0.08	0.06	0.05	48.56
19	36.00	38.00	2.00	MHG-03-19	32.84	19.42	0.39	0.71	0.13	0.037	0.07	0.07	0.04	46.11
20	38.00	40.00	2.00	MHG-03-20	33.16	19.17	0.27	0.53	0.14	0.029	0.06	0.05	0.06	46.36
21	40.00	42.00	2.00	MHG-03-21	33.25	18.84	0.34	0.69	0.17	0.033	0.08	0.07	0.06	46.28
22	42.00	44.00	2.00	MHG-03-22	32.78	19.16	0.50	0.95	0.18	0.036	0.09	0.09	0.06	46.00
23	44.00	46.00	2.00	MHG-03-23	31.34	18.65	0.85	1.48	0.24	0.042	0.13	0.14	0.06	46.97
24	46.00	48.00	2.00	MHG-03-24	32.93	18.68	0.63	1.19	0.23	0.039	0.15	0.12	0.05	45.80
25	48.00	50.00	2.00	MHG-03-25	32.35	18.79	0.61	1.13	0.22	0.031	0.11	0.10	0.08	46.42

BOREHOLE NO: MHG-05

Sl. No.	From (m)	To (m)	Thickness (m)	Sample No	CaO %	MgO %	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SO ₃ %	P ₂ O ₅ %	K ₂ O %	Na ₂ O %	LOI %
1	14.00	16.00	2.00	MHG-05-01	32.14	18.60	0.70	2.25	0.27	0.041	0.06	0.11	0.05	45.60
2	16.00	18.00	2.00	MHG-05-02	33.84	18.01	0.48	1.17	0.21	0.033	0.06	0.08	0.05	45.91
3	18.00	20.00	2.00	MHG-05-03	31.81	19.24	0.15	0.55	0.10	0.024	0.03	0.02	0.03	47.85
4	20.00	22.00	2.00	MHG-05-04	32.76	19.34	0.12	1.92	0.20	0.017	0.03	0.01	0.03	45.40
5	22.00	24.00	2.00	MHG-05-05	32.62	19.39	0.15	2.28	0.12	0.022	0.04	0.02	0.04	45.14
6	24.00	26.00	2.00	MHG-05-06	33.30	19.79	0.13	0.51	0.11	0.019	0.06	0.02	0.03	45.89
7	26.00	28.00	2.00	MHG-05-07	33.16	19.23	0.19	1.37	0.12	0.023	0.03	0.02	0.04	45.65
8	28.00	30.00	2.00	MHG-05-08	32.90	19.71	0.18	0.77	0.16	0.020	0.04	0.03	0.01	46.00
9	30.00	32.00	2.00	MHG-05-09	32.52	19.24	0.17	0.92	0.16	0.023	0.04	0.02	0.04	46.72
10	32.00	34.00	2.00	MHG-05-10	32.56	19.44	0.16	1.59	0.11	0.023	0.05	0.02	0.04	45.85
11	34.00	36.00	2.00	MHG-05-11	32.93	19.60	0.14	0.79	0.14	0.020	0.05	0.02	0.04	46.10
12	36.00	38.00	2.00	MHG-05-12	33.10	19.66	0.14	0.88	0.11	0.025	0.04	0.01	0.03	45.83
13	38.00	40.00	2.00	MHG-05-13	33.10	19.35	0.16	1.41	0.11	0.021	0.10	0.01	0.06	45.55

Sl. No.	From (m)	To (m)	Thickness (m)	Sample No	CaO %	MgO %	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SO ₃ %	P ₂ O ₅ %	K ₂ O %	Na ₂ O %	LOI %
14	40.00	42.00	2.00	MHG-05-14	33.12	19.51	0.13	1.17	0.09	0.019	0.03	0.01	0.04	45.71
15	42.00	44.00	2.00	MHG-05-15	32.09	19.05	0.12	2.01	0.09	0.018	0.03	0.01	0.04	46.36
16	44.00	46.00	2.00	MHG-05-16	32.99	19.37	0.13	1.47	0.10	0.021	0.04	0.01	0.06	45.71
17	46.00	48.00	2.00	MHG-05-17	32.68	19.27	0.10	2.31	0.09	0.020	0.04	0.01	0.03	45.28
18	48.00	50.00	2.00	MHG-05-18	33.25	19.28	0.12	1.56	0.09	0.020	0.05	0.01	0.04	45.41

BOREHOLE NO: MHG-06

Sl. No.	From (m)	To (m)	Thickness (m)	Sample No	CaO %	MgO %	Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SO ₃ %	P ₂ O ₅ %	K ₂ O %	Na ₂ O %	LOI %
1	0.50	2.00	1.50	MHG-06-01	30.91	17.41	1.07	6.30	0.40	0.051	0.03	0.15	0.03	43.53
2	2.00	4.00	2.00	MHG-06-02	30.31	16.48	1.70	6.97	0.61	0.049	0.05	0.27	0.03	43.35
3	4.00	6.00	2.00	MHG-06-03	29.39	16.19	2.03	8.04	0.76	0.074	0.05	0.35	0.03	42.86
4	6.00	8.00	2.00	MHG-06-04	15.22	7.52	10.91	35.71	2.41	0.062	0.08	2.24	0.07	25.27
5	8.00	10.00	2.00	MHG-06-05	29.12	15.77	2.32	8.83	0.78	0.078	0.03	0.39	0.03	42.42
6	10.00	12.00	2.00	MHG-06-06	30.14	16.60	1.82	7.29	0.57	0.104	0.02	0.29	0.01	42.89
7	12.00	14.00	2.00	MHG-06-07	29.87	16.42	1.81	7.91	0.56	0.083	0.02	0.25	0.03	42.88
8	14.00	16.00	2.00	MHG-06-08	30.47	16.99	1.53	6.22	0.48	0.062	0.02	0.24	0.04	43.66
9	16.00	18.00	2.00	MHG-06-09	28.70	15.98	2.48	9.42	0.56	0.107	0.03	0.39	0.04	42.13
10	18.00	20.00	2.00	MHG-06-10	30.19	16.81	1.82	6.54	0.44	0.153	0.04	0.30	0.05	43.49
11	20.00	22.00	2.00	MHG-06-11	29.21	15.85	2.60	8.78	0.60	0.250	0.04	0.44	0.05	42.05
12	22.00	24.00	2.00	MHG-06-12	31.24	17.23	0.74	7.52	0.35	0.146	0.02	0.10	0.03	42.45
13	24.00	26.00	2.00	MHG-06-13	30.20	18.57	0.81	6.38	0.26	0.273	0.02	0.11	0.03	43.23
14	26.00	28.00	2.00	MHG-06-14	28.81	17.36	2.09	7.85	0.48	0.419	0.03	0.32	0.04	42.50
15	28.00	30.00	2.00	MHG-06-15	29.91	17.16	2.00	6.83	0.56	0.455	0.03	0.31	0.03	42.56
16	30.00	32.00	2.00	MHG-06-16	26.37	12.92	4.49	15.45	1.06	0.949	0.07	0.76	0.04	37.71
17	32.00	34.00	2.00	MHG-06-17	24.26	13.37	5.03	16.84	1.07	0.883	0.09	0.91	0.04	37.42
18	34.00	36.00	2.00	MHG-06-18	27.86	16.30	2.57	9.92	0.63	0.464	0.08	0.42	0.04	41.56
19	36.00	38.00	2.00	MHG-06-19	30.42	18.35	1.17	5.25	0.41	0.330	0.06	0.18	0.03	43.65
20	38.00	40.00	2.00	MHG-06-20	29.66	17.50	1.71	6.83	0.44	0.313	0.02	0.23	0.01	43.15
21	40.00	42.00	2.00	MHG-06-21	30.61	18.09	1.28	4.60	0.32	0.237	0.04	0.20	0.04	44.41
22	42.00	44.00	2.00	MHG-06-22	28.31	16.46	2.51	9.24	0.62	0.514	0.05	0.41	0.03	41.70
23	44.00	46.00	2.00	MHG-06-23	30.80	17.83	1.48	5.10	0.36	0.335	0.03	0.22	0.03	43.65
24	46.00	48.00	2.00	MHG-06-24	31.43	18.25	0.97	4.23	0.27	0.336	0.02	0.14	0.03	44.14
25	48.00	50.00	2.00	MHG-06-25	30.96	17.51	1.16	5.41	0.29	0.251	0.02	0.17	0.03	44.00