

DETAILS OF SAMPLE ANALYSIS Vs EXTERNAL CHECK SAMPLE ANALYSIS FOR Al_2O_3 , SiO_2 , Fe_2O_3 , TiO_2 & LOI OF BOREHOLES DRILLED BY MECL
IN ANVARAPAT BLOCK, DISTRICT-LOHARDAGA, JHARKHAND
Zone demarcation based on Al_2O_3 >20% and <30%

Sl. No.	Sample No	From (m)	To (m)	Thick-ness (m)	Al_2O_3 %	Fe_2O_3 %	SiO_2 %	TiO_2 %	LOI %	Ga PPM	V PPM	Sample No	Al_2O_3 %	Fe_2O_3 %	SiO_2 %	TiO_2 %	Ga %	Va %	LOI %	Al_2O_3 %	Fe_2O_3 %	SiO_2 %	TiO_2 %	Ga %	Va %	LOI %
Primary Samples												External Check Samples								Difference						
1	MAP01/05	2.10	2.50	0.40	41.86	21.20	7.97	6.25	21.97	96	792	MAP / CH01	43.33	21.31	7.08	6.06	70.00	1000.00	21.37	-1.47	-0.11	0.89	0.19	26.00	-208.00	0.60
2	MAP01/14	5.70	6.10	0.40	41.82	22.23	8.14	5.54	21.57	90	885	MAP / CH02	43.27	22.11	7.47	5.56	70.00	1100.00	20.61	-1.45	0.12	0.67	-0.02	20.00	-215.00	0.96
3	MAP01/30	22.00	24.00	2.00	36.49	2.94	46.45	2.21	11.47	32	209	MAP / CH03	31.16	2.62	52.94	1.75	10.00	300.00	10.98	5.33	0.32	-6.49	0.46	22.00	-91.00	0.49
4	MAP02/02	2.10	2.70	0.60	32.28	23.85	21.14	4.61	16.49	70	745	MAP / CH04	31.20	23.84	23.37	4.54	40.00	900.00	15.49	1.08	0.01	-2.23	0.07	30.00	-155.00	1.00
5	MAP02/06	4.20	4.50	0.30	40.34	15.41	16.02	5.93	21.28	90	631	MAP / CH05	43.26	14.30	14.54	5.56	60.00	700.00	21.23	-2.92	1.11	1.48	0.37	30.00	-69.00	0.05
6	MAP02/08	5.10	5.70	0.60	33.80	21.23	22.65	4.56	16.50	72	693	MAP / CH06	33.05	21.65	23.94	4.60	50.00	800.00	15.55	0.75	-0.42	-1.29	-0.04	22.00	-107.00	0.95
7	MAP02/14	10.00	11.00	1.00	31.78	15.91	36.07	2.14	13.02	37	290	MAP / CH07	28.83	15.77	39.58	2.11	20.00	400.00	12.73	2.95	0.14	-3.51	0.03	17.00	-110.00	0.29
8	MAP03/04	2.10	2.40	0.30	28.11	31.31	21.05	2.93	15.51	42	559	MAP / CH08	26.06	31.07	23.91	2.87	40.00	700.00	14.91	2.05	0.24	-2.86	0.06	2.00	-141.00	0.60
9	MAP03/05	2.40	3.00	0.60	27.33	28.83	28.58	1.54	12.59	44	434	MAP / CH09	23.84	28.03	33.07	1.66	30.00	400.00	12.32	3.49	0.80	-4.49	-0.12	14.00	34.00	0.27
10	MAP03/07	4.00	5.00	1.00	33.77	8.40	43.31	0.57	12.41	48	10	MAP / CH10	30.02	6.78	49.32	0.53	30.00	100.00	11.90	3.75	1.62	-6.01	0.04	18.00	-90.01	0.51
11	MAP03/09	6.00	7.00	1.00	30.56	5.13	53.18	0.34	9.23	41	12	MAP / CH11	23.50	4.30	61.31	0.37	20.00	100.00	9.14	7.06	0.83	-8.13	-0.03	21.00	-88.00	0.09
12	MAP04/01	0.20	0.50	0.30	26.64	25.82	26.87	3.95	14.82	78	1011	MAP / CH12	26.45	24.02	30.50	3.79	50.00	1000.00	14.40	0.19	1.80	-3.63	0.16	28.00	11.00	0.42
13	MAP04/03	1.00	1.50	0.50	34.24	28.05	13.87	5.61	17.40	105	1241	MAP / CH13	35.43	27.65	13.55	5.55	70.00	1400.00	16.87	-1.19	0.40	0.32	0.06	35.00	-159.00	0.53
14	MAP04/13	7.50	8.00	0.50	33.61	34.41	5.65	5.54	20.26	64	762	MAP / CH14	34.93	33.65	5.18	5.50	40.00	1100.00	20.00	-1.32	0.76	0.47	0.04	24.00	-338.00	0.26
15	MAP04/24	17.00	18.00	1.00	36.60	29.21	7.16	4.44	21.88	68	545	MAP / CH15	40.48	25.81	6.94	4.19	40.00	800.00	21.76	-3.88	3.40	0.22	0.25	28.00	-255.00	0.12
16	MAP05/05	3.00	4.00	1.00	35.51	26.64	14.90	5.10	17.33	90	1308	MAP / CH16	35.59	27.24	14.45	5.04	70.00	1400.00	16.95	-0.08	-0.60	0.45	0.06	20.00	-92.00	0.38
17	MAP05/07	5.00	6.00	1.00	29.99	41.85	7.95	4.56	15.29	79	1099	MAP / CH17	28.23	44.16	7.66	4.58	60.00	1400.00	14.67	1.76	-2.31	0.29	-0.02	19.00	-301.00	0.62
18	MAP05/09	7.00	8.00	1.00	29.18	39.14	7.70	5.00	18.48	57	986	MAP / CH18	26.63	42.62	7.52	5.09	50.00	1300.00	17.22	2.55	-3.48	0.18	-0.09	7.00	-314.00	1.26
19	MAP05/19	16.00	17.00	1.00	39.80	25.80	2.78	9.06	21.96	73	858	MAP / CH19	43.49	23.41	2.55	8.19	50.00	1000.00	21.61	-3.69	2.39	0.23	0.87	23.00	-142.00	0.35
20	MAP06/01	0.40	0.80	0.40	32.92	29.81	14.49	4.11	17.51	69	897	MAP / CH20	34.89	28.71	14.70	4.02	50.00	1000.00	16.34	-1.97	1.10	-0.21	0.09	19.00	-103.00	1.17
21	MAP06/07	4.00	4.40	0.40	29.15	40.94	7.04	5.23	17.24	56	835	MAP / CH21	30.47	40.16	7.00	5.18	40.00	1200.00	16.48	-1.32	0.78	0.04	0.05	16.00	-365.00	0.76
22	MAP06/09	4.80	5.80	1.00	26.84	40.13	7.83	6.01	18.72	66	798	MAP / CH22	34.17	34.38	7.13	5.10	50.00	1100.00	18.30	-7.33	5.75	0.70	0.91	16.00	-302.00	0.42
23	MAP06/11	6.40	7.40	1.00	31.36	36.17	5.77	6.05	19.97	65	745	MAP / CH23	34.84	33.27	5.86	5.96	40.00	1100.00	19.11	-3.48	2.90	-0.09	0.09	25.00	-355.00	0.86
24	MAP07/04	2.10	2.70	0.60	29.93	23.42	23.81	4.50	17.18	63	558	MAP / CH24	31.58	21.24	26.77	4.27	50.00	700.00	14.85	-1.65	2.18	-2.96	0.23	13.00	-142.00	2.33
25	MAP07/05	2.70	3.10	0.40	29.56	24.47	25.29	4.26	15.28	75	549	MAP / CH25	29.95	22.67	27.80	4.01	50.00	700.00	14.25	-0.39	1.80	-2.51	0.25	25.00	-151.00	1.03
26	MAP07/06	3.10	3.50	0.40	27.71	22.03	30.25	3.83	14.95	68	506	MAP / CH26	27.86	19.75	35.16	3.43	40.00	600.00	12.54	-0.15	2.28	-4.91	0.40	28.00	-94.00	2.41
27	MAP07/07	3.50	4.50	1.00	30.44	16.84	28.29	5.72	17.49	70	437	MAP / CH27	31.66	14.73	31.78	5.42	50.00	600.00	15.16	-1.22	2.11	-3.49	0.30	20.00	-163.00	2.33
28	MAP08/01	0.50	1.40	0.90	24.62	10.60	50.41	1.60	8.50	38	188	MAP / CH28	19.13	8.08	59.75	1.36	10.00	200.00	8.23	5.49	2.52	-9.34	0.24	28.00	-12.00	0.27
29	MAP08/07	5.00	6.00	1.00	29.22	39.69	10.66	4.97	14.87	68	989	MAP / CH29	29.28	40.09	10.35	4.98	50.00	1300.00	14.46	-0.06	-0.40	0.31	-0.01	18.00	-311.00	0.41
30	MAP08/08	6.00	6.50	0.50	34.06	32.04	11.31	6.10	15.98	72	865	MAP / CH30	35.11	31.73	10.61	5.93	50.00	1100.00	15.82	-1.05	0.31	0.70	0.17	22.00	-235.00	0.16
31	MAP08/17	12.00	13.00	1.00	32.69	9.69	43.80	2.01	10.98	30	250	MAP / CH31	30.06	8.44	48.43	1.84	20.00	300.00	10.53	2.63	1.25	-4.63	0.17	10.00	-50.00	0.45



Sl. No.	Sample No	From (m)	To (m)	Thick-ness (m)	Al ₂ O ₃ %	Fe ₂ O ₃ %	SiO ₂ %	TiO ₂ %	LOI %	Ga PPM	V PPM	Sample No	Al ₂ O ₃ %	Fe ₂ O ₃ %	SiO ₂ %	TiO ₂ %	Ga %	Va %	LOI %	Al ₂ O ₃ %	Fe ₂ O ₃ %	SiO ₂ %	TiO ₂ %	Ga %	Va %	LOI %
	Primary Samples											External Check Samples							Difference							
32	MAP09/01	1.00	1.50	0.50	33.35	23.50	17.91	4.90	18.64	45	493	MAP / CH32	36.02	22.50	17.69	4.73	30.00	700.00	17.37	-2.68	1.00	0.22	0.17	15.00	-207.00	1.27
33	MAP09/02	1.50	2.00	0.50	33.82	25.45	18.50	3.89	17.17	49	514	MAP / CH33	35.69	24.44	18.73	3.96	30.00	700.00	15.91	-1.87	1.01	-0.23	-0.07	19.00	-186.00	1.26
34	MAP09/10	6.00	6.50	0.50	31.52	22.50	28.12	2.82	14.56	37	485	MAP / CH34	29.06	22.98	30.80	2.92	20.00	500.00	13.58	2.46	-0.48	-2.68	-0.10	17.00	-15.00	0.98
35	MAP10/09	6.00	7.00	1.00	36.66	9.73	34.85	2.66	15.63	39	247	MAP / CH35	34.94	9.36	37.94	2.65	30.00	400.00	14.53	1.72	0.37	-3.09	0.01	9.00	-153.00	1.10
36	MAP10/15	12.00	13.00	1.00	32.35	13.68	39.07	2.11	12.22	36	385	MAP / CH36	28.26	12.18	45.44	2.00	20.00	400.00	11.43	4.09	1.50	-6.37	0.11	16.00	-15.00	0.79
37	MAP10/16	13.00	14.00	1.00	29.42	14.09	41.80	2.64	11.39	40	374	MAP / CH37	26.35	12.15	47.90	2.39	20.00	400.00	10.48	3.07	1.94	-6.10	0.25	20.00	-26.00	0.91
38	MAP11/02	1.00	2.00	1.00	30.42	34.59	13.57	4.82	15.56	84	1117	MAP / CH38	30.53	35.45	13.43	4.90	60.00	1300.00	14.49	-0.11	-0.86	0.14	-0.08	24.00	-183.00	1.07
39	MAP11/07	6.00	7.00	1.00	32.19	7.41	47.11	0.58	11.32	48	54	MAP / CH39	26.87	5.99	55.27	0.58	30.00	200.00	10.11	5.32	1.42	-8.16	0.00	18.00	-146.00	1.21
40	MAP12/02	1.20	2.00	0.80	31.26	22.58	29.71	1.52	13.60	53	383	MAP / CH40	30.83	21.50	31.20	1.56	40.00	300.00	13.58	0.43	1.08	-1.49	-0.04	13.00	83.00	0.02
41	MAP12/07	4.00	4.50	0.50	32.30	25.66	25.01	2.12	14.11	66	563	MAP / CH41	31.61	26.13	25.57	2.23	50.00	500.00	13.58	0.69	-0.47	-0.56	-0.11	16.00	63.00	0.53
42	MAP13/05	8.00	9.00	1.00	26.99	34.03	19.53	4.06	14.70	84	1198	MAP / CH42	26.34	35.35	20.29	4.23	60.00	1300.00	12.89	0.65	-1.32	-0.76	-0.17	24.00	-102.00	1.81
43	MAP13/06	9.00	10.00	1.00	28.62	34.43	16.72	4.63	14.95	88	1242	MAP / CH43	27.98	35.59	16.75	4.73	70.00	1400.00	14.11	0.64	-1.16	-0.03	-0.10	18.00	-158.00	0.84
44	MAP13/10	13.50	15.00	1.50	30.62	34.55	11.77	5.21	17.42	52	682	MAP / CH44	30.37	36.11	11.37	5.37	40.00	1000.00	16.07	0.25	-1.56	0.40	-0.16	12.00	-318.00	1.35
45	MAP14/13	12.00	12.50	0.50	29.07	40.34	5.54	5.44	18.85	54	951	MAP / CH45	29.83	39.79	5.29	5.25	40.00	1500.00	18.81	-0.76	0.55	0.25	0.19	14.00	-549.00	0.04
46	MAP15/04	5.00	6.00	1.00	26.26	42.78	10.21	3.49	16.09	55	1339	MAP / CH46	26.38	43.08	10.70	3.81	40.00	1500.00	14.67	-0.12	-0.30	-0.49	-0.32	15.00	-161.00	1.42
47	MAP15/05	6.00	6.50	0.50	27.87	41.36	7.29	4.17	18.48	59	1488	MAP / CH47	27.65	43.78	7.35	4.50	50.00	1800.00	15.58	0.22	-2.42	-0.06	-0.33	9.00	-312.00	2.90
48	MAP15/06	6.50	7.00	0.50	26.29	43.06	6.24	4.39	19.30	70	1710	MAP / CH48	25.98	47.39	6.55	4.71	50.00	2100.00	14.30	0.31	-4.33	-0.31	-0.32	20.00	-390.00	5.00
49	MAP15/07	7.00	7.50	0.50	27.50	42.77	6.49	4.78	17.79	76	1670	MAP / CH49	26.64	45.83	6.61	4.93	50.00	2100.00	14.98	0.86	-3.06	-0.12	-0.15	26.00	-430.00	2.81