

**Primary analysis of Borehole Samples for 8 radicals in Ambara Maru Block for Glauconite, Phosphorite and REE, District-Kachchh, Gujarat**

Sl. No	BH No.	BH Sample ID	From (m)	To (m)	Thickness (m)	K <sub>2</sub> O%	SiO <sub>2</sub> %	MgO%	CaO%	Na <sub>2</sub> O%	P <sub>2</sub> O <sub>5</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %
1	MAMB-01	MAMB-01/01	0.25	1.00	0.75	1.07	91.17	0.12	0.96	0.06	0.05	2.79	2.21
2		MAMB-01/02	1.00	2.00	1.00	0.89	92.70	0.12	1.25	0.07	0.06	1.77	1.67
3		MAMB-01/03	2.00	3.00	1.00	0.93	93.78	0.06	0.86	0.05	0.05	1.52	1.68
4		MAMB-01/04	3.00	4.00	1.00	0.70	85.71	0.09	5.21	0.04	0.05	1.27	3.68
5		MAMB-01/05	4.00	5.00	1.00	0.65	74.24	0.74	9.16	0.04	0.03	1.54	6.46
6		MAMB-01/06	5.00	6.00	1.00	3.13	72.84	0.38	0.70	0.21	0.10	11.48	6.56
7		MAMB-01/07	6.00	7.00	1.00	3.11	63.08	0.68	0.18	0.28	0.05	17.92	6.89
8		MAMB-01/08	7.00	9.00	2.00	2.14	43.23	2.50	7.26	0.24	0.33	13.80	13.52
9		MAMB-01/09	9.00	11.00	2.00	3.08	56.09	1.83	4.05	0.28	0.19	13.99	9.23
10		MAMB-01/10	11.00	13.00	2.00	2.58	46.92	2.97	10.31	0.26	0.12	12.40	9.41
11		MAMB-01/11	13.00	15.00	2.00	3.74	52.71	2.28	4.65	0.30	0.05	16.91	8.48
12		MAMB-01/12	15.00	17.00	2.00	3.21	52.58	2.51	6.97	0.28	0.09	13.73	8.15
13		MAMB-01/13	17.00	19.00	2.00	5.14	73.52	0.80	1.17	0.21	0.08	10.58	4.20
14		MAMB-01/14	19.00	20.00	1.00	4.45	76.24	0.74	1.28	0.18	0.08	9.36	3.73
15		MAMB-01/15	20.00	22.00	2.00	3.49	48.58	2.09	0.54	0.37	0.14	22.41	9.30
16		MAMB-01/16	22.00	24.00	2.00	3.22	49.69	1.87	0.31	0.40	0.10	23.10	8.31
17		MAMB-01/17	24.00	26.00	2.00	3.36	50.36	1.99	0.38	0.38	0.08	21.88	8.91
18		MAMB-01/18	26.00	28.00	2.00	3.06	42.36	2.96	4.16	0.38	0.10	17.57	15.07
19		MAMB-01/19	28.00	30.00	2.00	3.50	48.49	1.75	0.35	0.38	0.09	23.17	8.67
20		MAMB-01/20	30.00	32.00	2.00	2.76	46.94	2.79	8.02	0.24	0.13	14.68	9.06
21		MAMB-01/21	32.00	34.00	2.00	3.61	52.46	1.83	4.14	0.27	0.08	18.30	6.94
22		MAMB-01/22	34.00	36.00	2.00	3.38	53.10	1.19	0.28	0.33	0.07	22.02	7.25
23		MAMB-01/23	36.00	38.00	2.00	1.91	37.85	3.95	12.84	0.19	0.93	9.08	13.89
24		MAMB-01/24	38.00	40.00	2.00	2.70	42.49	3.53	10.55	0.24	0.18	12.32	11.21

Sl. No	BH No.	BH Sample ID	From (m)	To (m)	Thickness (m)	K <sub>2</sub> O%	SiO <sub>2</sub> %	MgO%	CaO%	Na <sub>2</sub> O%	P <sub>2</sub> O <sub>5</sub> %	Al <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %
1	MAMB-02	MAMB-02/01	0.00	1.00	1.00	2.92	48.55	1.84	3.67	0.70	0.08	20.48	9.11
2		MAMB-02/02	1.00	2.00	1.00	2.87	47.66	1.77	3.07	1.05	0.08	22.10	8.25
3		MAMB-02/03	2.00	3.00	1.00	2.92	48.42	1.96	3.30	0.53	0.08	22.44	8.86
4		MAMB-02/04	3.00	4.00	1.00	2.67	44.54	1.66	5.47	0.52	2.52	19.50	11.18
5		MAMB-02/05	4.00	5.00	1.00	2.86	50.11	1.94	1.12	0.50	0.13	22.41	9.34
6		MAMB-02/06	5.00	6.00	1.00	2.85	51.09	2.11	1.99	0.49	0.07	21.58	7.60
7		MAMB-02/07	6.00	7.00	1.00	2.83	49.29	1.71	1.11	0.39	0.09	22.48	9.20
8		MAMB-02/08	7.00	8.00	1.00	2.89	49.06	2.04	2.33	0.40	0.08	20.56	9.20
9		MAMB-02/09	8.00	10.00	2.00	3.08	51.63	2.12	1.30	0.31	0.08	21.58	7.55
10		MAMB-02/10	10.00	12.00	2.00	2.74	48.60	2.09	1.96	0.27	0.08	22.06	8.71
11		MAMB-02/11	12.00	14.00	2.00	2.72	49.23	2.02	1.84	0.25	0.10	21.83	8.81
12		MAMB-02/12	14.00	16.00	2.00	2.93	51.52	1.92	0.80	0.23	0.10	22.03	7.88
13		MAMB-02/13	16.00	18.00	2.00	2.76	51.69	1.83	0.82	0.22	0.10	22.65	7.57
14		MAMB-02/14	18.00	20.00	2.00	3.01	52.39	1.79	1.24	0.23	0.47	21.13	7.91
15		MAMB-02/15	20.00	22.00	2.00	2.98	53.17	1.72	0.60	0.20	0.09	23.50	6.49
16		MAMB-02/16	22.00	24.00	2.00	2.91	51.78	1.97	2.43	0.17	0.10	21.23	7.73
17		MAMB-02/17	24.00	26.00	2.00	3.18	54.68	1.41	0.33	0.15	0.09	24.31	4.90
18		MAMB-02/18	26.00	28.00	2.00	2.60	47.31	3.75	8.46	0.14	0.05	13.98	7.77
19		MAMB-02/19	28.00	29.00	1.00	1.99	47.85	4.56	10.33	0.14	0.15	12.36	6.66
20		MAMB-02/20	29.00	31.00	2.00	2.91	50.29	1.50	1.02	0.17	0.16	21.59	7.74
21		MAMB-02/21	31.00	33.00	2.00	1.37	84.26	0.56	1.18	0.13	0.07	5.69	3.43
22		MAMB-02/22	33.00	35.00	2.00	2.38	53.29	2.12	4.61	0.15	0.13	17.11	6.81
23		MAMB-02/23	35.00	37.00	2.00	2.15	52.93	2.99	7.08	0.20	0.09	14.05	6.58
24		MAMB-02/24	37.00	39.00	2.00	2.60	45.78	2.39	4.04	0.27	0.11	20.66	9.11
25		MAMB-02/25	39.00	40.00	1.00	2.75	48.78	1.65	0.93	0.28	0.09	23.02	8.11

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1	MAMB-03	MAMB-03/01	0.00	1.00	1.00	1.85	46.21	0.55	14.21	0.09	0.15	6.25	18.66
2		MAMB-03/02	1.00	2.00	1.00	2.88	53.78	1.26	7.87	0.22	0.25	9.11	14.58
3		MAMB-03/03	2.00	3.00	1.00	2.97	54.13	1.28	4.50	0.23	0.19	13.56	13.70
4		MAMB-03/04	3.00	4.00	1.00	3.67	66.21	0.88	0.97	0.26	0.08	14.58	6.60
5		MAMB-03/05	4.00	5.00	1.00	2.08	42.79	2.98	14.10	0.16	0.43	6.51	16.32
6		MAMB-03/06	5.00	6.00	1.00	3.15	52.97	0.91	1.42	0.39	0.41	16.42	16.09
7		MAMB-03/07	6.00	7.00	1.00	2.98	55.17	1.26	2.01	0.29	0.22	14.86	14.14
8		MAMB-03/08	7.00	8.00	1.00	2.52	47.22	1.47	4.37	0.26	0.69	10.50	22.76
9		MAMB-03/09	8.00	9.00	1.00	2.42	49.81	2.37	7.42	0.15	0.23	9.16	16.84
10		MAMB-03/10	9.00	10.00	1.00	2.58	51.28	2.23	7.17	0.17	0.23	12.60	11.38
11		MAMB-03/11	10.00	11.00	1.00	3.14	58.20	1.45	3.70	0.19	0.31	13.69	10.10
12		MAMB-03/12	11.00	12.00	1.00	1.89	41.71	3.39	11.69	0.11	0.16	7.75	16.34
13		MAMB-03/13	12.00	13.00	1.00	2.11	44.67	3.03	6.73	0.12	0.19	7.97	22.47
14		MAMB-03/14	13.00	14.00	1.00	2.06	43.91	3.40	9.53	0.11	0.33	9.32	16.30
15		MAMB-03/15	14.00	15.00	1.00	3.02	58.37	1.06	0.92	0.15	0.16	17.95	9.30
16		MAMB-03/16	15.00	16.00	1.00	2.43	48.56	2.34	6.32	0.11	0.29	11.81	15.65
17		MAMB-03/17	16.00	17.00	1.00	2.53	51.68	1.88	5.07	0.13	0.26	13.36	13.20
18		MAMB-03/18	17.00	18.00	1.00	2.30	48.02	2.45	7.00	0.12	0.28	12.18	13.98
19		MAMB-03/19	18.00	19.00	1.00	2.52	50.41	2.54	7.41	0.13	0.15	13.80	8.34
20		MAMB-03/20	19.00	20.00	1.00	2.26	47.98	2.41	5.85	0.15	0.43	11.56	14.63
21		MAMB-03/21	20.00	21.00	1.00	2.75	51.92	1.63	1.10	0.16	0.12	16.54	12.89
22		MAMB-03/22	21.00	22.00	1.00	2.92	53.83	1.68	2.66	0.16	0.08	18.43	7.33
23		MAMB-03/23	22.00	23.00	1.00	2.42	47.45	2.28	6.48	0.19	0.44	14.77	10.60
24		MAMB-03/24	23.00	24.00	1.00	2.60	52.17	1.74	4.37	0.24	0.42	18.11	7.15
25		MAMB-03/25	24.00	25.15	1.15	2.34	47.78	2.82	9.19	0.23	0.09	13.23	8.75
26		MAMB-03/26	25.15	26.00	0.85	2.55	53.28	2.04	4.23	0.24	0.20	12.40	13.07
27		MAMB-03/27	26.00	27.00	1.00	2.67	53.03	2.17	5.66	0.29	0.12	16.27	7.05
28		MAMB-03/28	27.00	28.00	1.00	2.63	51.54	1.87	3.48	0.28	0.13	18.58	8.26
29		MAMB-03/29	28.00	29.00	1.00	2.42	50.24	2.01	4.22	0.28	0.16	17.85	8.09
30		MAMB-03/30	29.00	30.00	1.00	2.47	50.41	2.12	4.12	0.33	0.13	17.49	8.92
31		MAMB-03/31	30.00	31.00	1.00	2.59	51.05	1.80	2.44	0.32	0.12	18.62	9.47
32		MAMB-03/32	31.00	32.00	1.00	2.31	47.61	2.00	3.59	0.30	0.20	17.89	11.16
33		MAMB-03/33	32.00	33.00	1.00	2.27	47.16	1.68	6.00	0.33	0.20	18.31	8.24
34		MAMB-03/34	33.00	34.00	1.00	2.27	46.43	1.74	5.06	0.32	0.20	18.49	9.75
35		MAMB-03/35	34.00	35.00	1.00	2.51	51.59	1.46	2.78	0.35	0.12	19.81	8.53
36		MAMB-03/36	35.00	36.00	1.00	2.39	50.10	1.67	3.66	0.33	0.14	18.55	9.39
37		MAMB-03/37	36.00	37.00	1.00	2.59	52.51	1.60	3.00	0.35	0.12	19.03	7.88
38		MAMB-03/38	37.00	38.00	1.00	2.68	53.89	1.39	1.34	0.35	0.11	20.44	7.29
39		MAMB-03/39	38.00	39.00	1.00	2.32	47.91	1.71	3.41	0.33	0.14	18.04	11.43
40		MAMB-03/40	39.00	40.00	1.00	2.49	50.95	1.56	3.59	0.34	0.11	20.00	7.37

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1	MAMB-04	MAMB-04/01	0.00	1.00	1.00	3.20	73.65	0.40	0.50	0.15	0.07	11.64	6.22
2		MAMB-04/02	1.00	2.00	1.00	2.44	76.60	0.27	0.18	0.14	0.07	9.89	6.61
3		MAMB-04/03	2.00	3.00	1.00	2.17	62.80	0.31	10.43	0.10	0.08	7.37	8.82
4		MAMB-04/04	3.00	4.00	1.00	2.08	51.16	0.99	16.88	0.10	0.04	7.16	9.83
5		MAMB-04/05	4.00	5.00	1.00	3.14	69.47	0.56	5.21	0.13	0.04	9.22	7.13
6		MAMB-04/06	5.00	6.00	1.00	2.71	63.84	0.38	9.24	0.11	0.04	7.68	8.64
7		MAMB-04/07	6.00	7.00	1.00	1.93	60.92	0.60	11.36	0.07	0.05	6.36	9.38
8		MAMB-04/08	7.00	8.00	1.00	3.02	73.29	0.25	0.26	0.30	0.13	8.84	9.21
9		MAMB-04/09	8.00	9.00	1.00	3.37	76.57	0.25	0.17	0.15	0.07	9.17	6.98
10		MAMB-04/10	9.00	10.00	1.00	2.96	63.35	0.67	5.38	0.12	0.06	10.36	10.42
11		MAMB-04/11	10.00	11.00	1.00	2.24	45.54	3.35	16.59	0.13	0.66	6.22	10.13
12		MAMB-04/12	11.00	12.00	1.00	2.66	48.10	3.82	12.34	0.16	0.46	8.26	10.77
13		MAMB-04/13	12.00	13.00	1.00	3.13	47.98	3.18	10.78	0.17	0.11	11.80	10.34
14		MAMB-04/14	13.00	14.00	1.00	3.98	64.18	0.57	0.29	0.22	0.12	16.40	8.15
15		MAMB-04/15	14.00	15.00	1.00	2.86	47.61	3.07	6.17	0.15	0.27	13.16	14.18
16		MAMB-04/16	15.00	16.00	1.00	3.30	55.42	1.33	0.47	0.20	0.06	19.27	9.79
17		MAMB-04/17	16.00	17.00	1.00	2.96	55.39	1.20	0.39	0.19	0.06	22.64	7.17
18		MAMB-04/18	17.00	18.00	1.00	3.05	56.04	1.23	0.64	0.17	0.20	19.79	8.44
19		MAMB-04/19	18.00	19.00	1.00	2.94	55.42	1.22	0.49	0.19	0.08	20.44	8.35
20		MAMB-04/20	19.00	20.00	1.00	2.01	41.53	4.03	10.68	0.13	0.09	11.93	10.23
21		MAMB-04/21	20.00	21.00	1.00	2.94	58.25	1.84	4.18	0.13	0.13	14.08	7.67
22		MAMB-04/22	21.00	22.00	1.00	2.87	51.74	1.23	0.32	0.11	0.07	25.59	6.50
23		MAMB-04/23	22.00	23.00	1.00	2.67	75.09	0.95	2.28	0.15	0.11	7.67	4.98
24		MAMB-04/24	23.00	24.00	1.00	2.88	77.72	0.84	1.20	0.17	0.08	8.16	4.23
25		MAMB-04/25	24.00	26.00	2.00	2.99	65.18	1.60	1.73	0.26	0.07	12.96	6.90
26		MAMB-04/26	26.00	28.00	2.00	4.24	61.00	1.45	0.61	0.26	0.06	17.27	6.55
27		MAMB-04/27	28.00	31.00	3.00	2.42	46.81	2.94	8.18	0.18	0.23	12.66	13.74
28		MAMB-04/28	31.00	34.00	3.00	3.29	47.53	2.19	1.74	0.33	0.28	23.01	10.60
29		MAMB-04/29	34.00	37.00	3.00	2.05	37.25	2.47	3.85	0.26	0.60	18.52	19.01
30		MAMB-04/30	37.00	40.00	3.00	3.28	48.81	2.07	1.21	0.32	0.12	22.42	10.11