

TEST RESULTS OF BAUXITE SAMPLES

Issued to:
The Director,
Critical Mineral trackers,
Con course No 406,7-1-58/cc/406,
opp Lal Bungalow,Green lands ,Hyderabad-500016.

Sample Particulars: Bauxite Samples.

Sample Qty : 500g x 40 N

Test Parameters: Silica as SiO₂, Aluminium as Al₂O₃, Iron as Fe₂O₃, Manganese as MnO, Magnesium as MgO ,Calcium as CaO, Sodium as Na₂O, Potassium as K₂O Titanium as TiO₂,Phosphorus as P₂O₅,Vanadium as V ,Loss on Ignition.

Report No : LL/25-26/006537 (1-40)

Report Issue Date : 29.09.2025

Date of Receipt of Sample : 13.09.2025

Date of Starting of Analysis : 15.09.2025

Date of Completing of Analysis : 29.09.2025

Sl.No	Lab. No.	Sample No	Silica as SiO ₂ (% by mass)	Aluminium as Al ₂ O ₃ (% by mass)	Iron as Fe ₂ O ₃ (% by mass)	Manganese as MnO (% by mass)	Magnesium as MgO (% by mass)	Calcium as CaO (% by mass)	Sodium as Na ₂ O (% by mass)	Potassium as K ₂ O (% by mass)	Titanium as TiO ₂ (% by mass)	Phosphorus as P ₂ O ₅ (% by mass)	Loss on Ignition (LOI) (% by mass)	Vanadium as V (ppm)
01	LL/25-26/006537-01	D/RMT- BH- 01/01	22.18	39.18	2.09	0.03	2.07	3.00	0.39	0.16	6.17	0.21	23.80	247.3
02	LL/25-26/006537-02	D/RMT- BH- 01/02	16.60	48.76	1.29	0.01	0.21	0.38	0.25	0.09	6.80	0.26	24.41	313.5
03	LL/25-26/006537-03	D/RMT- BH- 01/03	22.94	44.95	1.23	0.01	0.26	1.04	0.28	0.16	6.59	0.46	21.54	334.6
04	LL/25-26/006537-04	D/RMT- BH- 01/05	20.92	46.23	1.42	0.01	0.27	0.18	0.24	0.08	7.56	0.47	22.23	357.8
05	LL/25-26/006537-05	D/RMT- BH- 01/06	13.80	40.17	9.38	0.01	0.40	5.30	0.25	0.15	5.64	0.61	23.94	422.8
06	LL/25-26/006537-06	D/RMT- BH- 01/07	29.12	39.28	5.44	0.01	0.20	0.31	0.31	0.03	7.27	0.42	17.11	428.1
07	LL/25-26/006537-07	D/RMT- BH- 01/08	26.46	40.42	3.77	0.01	0.24	1.76	0.31	0.03	7.30	0.60	18.74	366.7
08	LL/25-26/006537-08	D/RMT- BH- 01/09	31.89	30.58	18.77	0.01	0.13	0.26	0.35	0.04	4.99	0.34	12.47	687.9
09	LL/25-26/006537-09	D/RMT- BH- 01/10	36.87	33.01	11.83	0.01	0.25	0.43	0.41	0.04	4.66	0.23	12.05	570.0
10	LL/25-26/006537-10	D/RMT- BH- 02/01	49.91	17.41	7.51	0.08	2.64	7.87	1.09	1.63	0.77	0.14	10.20	72.1
11	LL/25-26/006537-11	D/RMT- BH- 02/02	39.00	15.17	3.89	0.09	2.50	17.63	1.07	1.07	0.52	0.09	18.70	20.8
12	LL/25-26/006537-12	D/RMT- BH- 02/04	49.64	18.37	5.28	0.08	3.21	8.43	1.48	1.48	0.60	0.13	10.94	42.2
13	LL/25-26/006537-13	D/RMT- BH- 02/06	61.54	18.15	7.12	0.07	2.18	0.82	1.62	1.62	1.27	0.16	5.45	88.4
14	LL/25-26/006537-14	D/RMT- BH- 02/08	59.18	19.01	6.69	0.06	2.75	0.67	2.48	2.48	1.07	0.17	5.18	91.8
15	LL/25-26/006537-15	D/RMT- BH- 03/01	39.12	11.88	6.65	0.15	2.33	19.09	0.40	0.40	1.35	0.05	18.27	61.8
16	LL/25-26/006537-16	D/RMT- BH- 03/02	46.99	16.41	22.29	0.33	1.30	1.89	0.20	0.20	1.96	0.20	7.89	503.7
17	LL/25-26/006537-17	D/RMT- BH- 03/05	58.21	14.35	7.10	0.12	2.13	5.64	0.39	0.39	1.68	0.06	9.48	85.5
18	LL/25-26/006537-18	D/RMT- BH- 03/09	51.72	14.33	7.03	0.12	2.44	9.13	0.35	0.35	1.53	0.07	12.41	90.4
19	LL/25-26/006537-19	D/RMT- BH- 04/01	31.65	21.84	27.32	0.44	0.66	2.86	0.28	0.28	1.86	0.27	12.18	544.2
20	LL/25-26/006537-20	D/RMT- BH- 04/02	30.72	21.05	27.35	0.07	0.64	4.22	0.25	0.25	1.92	0.28	12.92	523.8

Test method: SOP-OM-03,Instrument Used : WD-XRF

Note: The above results are expressed on dry basis.


Reviewed by


A.L.Kanta Rao
AUTHORISED SIGNATORY

TEST RESULTS OF BAUXITE SAMPLES



Issued to:
The Director,
Critical Mineral trackers,
Con course No 406,7-1-58/cc/406,
opp Lal Bungalow,Green lands ,Hyderabad-500016.

Sample Particulars: Bauxite Samples.
Sample Qty : 500g x 40 N

Report No : LL/25-26/006537 (1-40)
Report Issue Date : 29.09.2025
Date of Receipt of Sample : 13.09.2025
Date of Starting of Analysis : 15.09.2025
Date of Completing of Analysis : 29.09.2025

Test Parameters: Silica as SiO₂, Aluminium as Al₂O₃, Iron as Fe₂O₃, Manganese as MnO, Magnesium as MgO ,Calcium as CaO, Sodium as Na₂O, Potassium as K₂O Titanium as TiO₂,Phosphorus as P₂O₅,Vanadium as V ,Loss on Ignition.

Sl.No	Lab. No.	Sample No	Silica as SiO ₂	Aluminium as Al ₂ O ₃	Iron as Fe ₂ O ₃	Manganese as MnO	Magnesium as MgO	Calcium as CaO	Sodium as Na ₂ O	Potassium as K ₂ O	Titanium as TiO ₂	Phosphorus as P ₂ O ₅	Loss on Ignition (LOI)	Vanadium as V
			(% by mass)	(% by mass)	(% by mass)	(% by mass)	(% by mass)	(% by mass)	(% by mass)	(% by mass)	(% by mass)	(% by mass)	(% by mass)	(ppm)
21	LL/25-26/006537-21	D/RMT- BH- 04/03	36.33	23.89	22.84	0.05	0.51	1.92	0.27	0.23	2.20	0.21	11.33	470.4
22	LL/25-26/006537-22	D/RMT- BH- 04/04	36.44	23.67	24.13	0.04	0.58	1.45	0.41	0.22	2.01	0.22	10.64	493.8
23	LL/25-26/006537-23	D/RMT- BH- 04/05	40.06	25.04	19.24	0.03	0.52	1.13	0.60	0.24	2.13	0.20	10.56	418.2
24	LL/25-26/006537-24	D/RMT- BH- 04/06	37.13	25.45	21.46	0.04	0.45	0.96	0.64	0.22	2.14	0.20	11.12	484.8
25	LL/25-26/006537-25	D/RMT- BH- 04/07	39.41	26.08	16.80	0.04	0.58	1.94	0.85	0.28	2.19	0.17	11.33	345.2
26	LL/25-26/006537-26	D/RMT- BH- 04/08	42.45	27.71	13.91	0.02	0.51	0.65	1.03	0.27	2.22	0.16	10.75	330.3
27	LL/25-26/006537-27	D/RMT- BH- 04/09	38.72	27.65	16.40	0.03	0.63	0.97	0.96	0.24	2.54	0.19	11.29	333.3
28	LL/25-26/006537-28	D/RMT- BH- 05/01	47.41	27.57	7.07	0.05	0.52	2.68	0.38	0.83	2.27	<0.01	10.67	184.3
29	LL/25-26/006537-29	D/RMT- BH- 05/02	46.53	31.74	5.04	0.04	0.47	0.94	0.73	0.72	2.69	<0.01	10.64	169.8
30	LL/25-26/006537-30	D/RMT- BH- 05/03	39.59	34.82	6.43	0.03	0.50	0.33	0.86	0.50	2.77	0.13	13.23	252.9
31	LL/25-26/006537-31	D/RMT- BH- 05/04	39.47	35.62	3.47	0.01	0.30	0.16	1.14	0.45	3.05	0.16	15.68	144.7
32	LL/25-26/006537-32	D/RMT- BH- 05/05	38.53	35.81	2.99	0.01	0.20	0.17	1.20	0.42	3.46	0.20	16.37	163.6
33	LL/25-26/006537-33	D/RMT- BH- 05/06	38.53	36.09	3.45	0.01	0.30	0.16	1.11	0.31	3.73	0.19	15.70	211.8
34	LL/25-26/006537-34	D/RMT- BH- 05/07	25.38	40.08	4.51	0.01	0.23	0.24	2.77	0.35	2.77	0.29	22.63	410.1
35	LL/25-26/006537-35	D/RMT- BH- 05/08	35.57	38.27	2.64	0.01	0.20	0.17	1.40	0.48	3.08	0.32	17.11	220.9
36	LL/25-26/006537-36	D/RMT- BH- 05/09	36.45	36.01	6.07	0.01	0.18	0.17	1.12	0.39	3.56	0.34	15.16	354.3
37	LL/25-26/006537-37	D/RMT- BH- 05/10	40.00	35.76	5.66	0.01	0.22	0.13	0.74	0.30	3.45	0.18	12.98	303.3
38	LL/25-26/006537-38	D/RMT- BH- 05/11	39.59	35.86	4.20	0.01	0.31	0.18	1.01	0.37	3.69	0.30	13.76	200.8
39	LL/25-26/006537-39	D/RMT- BH- 05/12	38.25	34.60	8.63	0.01	0.23	0.38	0.72	0.23	3.35	0.23	12.89	387.3
40	LL/25-26/006537-40	D/RMT- BH- 05/13	38.83	35.89	5.22	0.01	0.24	0.24	0.94	0.32	3.34	0.34	14.24	305.8

Test method: SOP-OM-03,Instrument Used : WD-XRF

Note: The above results are expressed on dry basis.

A.L. Kanta Rao
Reviewed by

A.L. Kanta Rao
A.L.Kanta Rao
AUTHORISED SIGNATORY



TEST RESULTS

Issued to:
Critical Mineral Trackers,
N.No 7-1-58/CC/406, 'Concourse', Opp.Lal Bungalow
Greenlands,
Hyderabad-500 016

ULR : TC591825000003171F
LAB REGISTRATION NO: LL/25-26/006537(1 to 12)
Date. Of Receipt of Sample : 13.09.2025
Date. Of Starting of Analysis : 15.09.2025
Date. Of Completing of Analysis : 27.09.2025

Sample Particulars: Bauxite Samples.
Sample Qty : 500g x 12Nos

S. No	Sample ID	Reg No	Cerium as Ce	Dysprosi um as Dy	Erbium as Er	Europiu m as Eu	Gadoliniu m as Gd	Holmiu m as Ho	Lanthan um as La	Lutetium as Lu	Neodymi um as Nd	Praseodym ium as Pr	Sameriu m as Sm	Scandiu m as Sc	Terbiu m as Tb	Thoriu m as Th	Thullium as Tm	Ytterbium as Yb	Yettriu m as Y	Uranium as U	Gallium as Ga	Vanadium as V	Titanium as TiO2
			(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(% by mass)
1	D/RMT-BH-01/02	6537/02	169.1	5.9	36.6	3.8	11.9	<1.0	66.8	<1.0	446.5	18.8	14.5	19.5	<1.0	28.9	<1.0	2.2	16.2	<1.0	61.00	314.0	7.56
2	D/RMT-BH-01/08	6537/07	534.4	15.7	44.6	10.7	35.5	<1.0	259.9	1.1	667.5	67.1	43.7	40.1	<1.0	52.5	<1.0	4.4	35.0	<1.0	48.36	367.0	8.00
3	D/RMT-BH-02/04	6537/12	47.1	3.2	4.6	<1.0	12.6	<1.0	31.1	1.3	57.7	10.2	5.3	12.6	<1.0	52.6	<1.0	2.6	15.8	36.6	16.37	42.0	0.55
4	D/RMT-BH-02/08	6537/14	67.2	4.9	7.0	1.7	15.9	<1.0	36.3	1.5	88.0	13.4	7.3	14.7	<1.0	61.0	<1.0	3.6	28.0	36.4	25.29	92.0	1.21
5	D/RMT-BH-03/05	6537/17	70.1	3.9	9.0	1.2	14.2	<1.0	38.2	1.4	114.4	14.3	6.0	13.7	<1.0	63.9	<1.0	3.0	18.4	18.5	<1.0	86.0	1.42
6	D/RMT-BH-03/09	6537/18	73.8	4.3	8.3	1.2	14.7	<1.0	40.7	1.5	107.4	11.4	6.6	12.0	<1.0	59.6	<1.0	3.0	20.8	35.4	12.65	90.0	1.61
7	D/RMT-BH-04/03	6537/21	93.4	3.8	14.1	3.8	47.0	<1.0	57.2	5.4	164.0	39.1	13.4	28.7	<1.0	231.6	<1.0	7.6	19.1	207.9	34.22	470.0	2.83
8	D/RMT-BH-04/06	6537/24	74.6	2.7	12.0	3.0	38.3	<1.0	48.0	4.5	151.0	29.4	9.5	24.3	<1.0	192.1	<1.0	6.2	15.1	192.1	26.04	485.0	2.97
9	D/RMT-BH-05/02	6537/29	103.7	2.3	14.2	1.5	11.4	<1.0	59.7	1.3	175.9	14.0	4.0	16.7	<1.0	71.8	<1.0	3.1	12.6	<1.0	46.12	170.0	3.45
10	D/RMT-BH-05/03	6537/30	103.1	1.2	13.0	1.5	15.0	<1.0	60.3	2.6	164.2	16.1	3.1	17.3	<1.0	97.3	<1.0	3.3	8.4	9.4	58.77	253.0	2.87
11	D/RMT-BH-05/04	6537/31	129.7	1.2	14.4	<1.0	4.1	<1.0	61.4	<1.0	170.7	13.2	2.7	20.9	<1.0	43.1	<1.0	1.5	5.9	<1.0	43.15	145.0	3.63
12	D/RMT-BH-05/09	6537/36	217.0	2.2	17.9	2.5	14.7	<1.0	93.6	1.4	260.5	24.4	8.8	26.2	<1.0	92.9	<1.0	2.9	7.9	<1.0	52.82	354.0	4.71

Test Method: SOP OM-8 and SOP-OM-1, Instrument Used: ICP-OES
Note 1: The above results are expressed on dry basis.

P.V.V. Satyakumar
Reviewed

A.L.Kanta Rao
AUTHORISED SIGNATORY