



TEST RESULTS



Issued to:
Critical Mineral Trackers,
N.No 7-1-58/CC/406, 'Concourse', Opp.Lal Bungalow
Greenlands, Ameerpet,
Hyderabad-500 016
Kind Attn.:Mr.K.Nageshwar Rao, 7893847742

Sample Particulars: Bauxite Samples.
Sample Qty : 500g x 08Nos

ULR : TC591825000003172F
LAB REGISTRATION NO: LL/25-26/006538(1 to 08)
Date. Of Receipt of Sample : 13.09.2025
Date. Of Starting of Analysis : 15.09.2025
Date. Of Completing of Analysis : 27.09.2025

S.No	Sample ID	Reg no	Cerium as Ce	Dysprosium as Dy	Erbium as Er	Europium as Eu	Gadolinium as Gd	Holmium as Ho	Lanthanum as La	Lutetium as Lu	Neodymium as Nd	Praseodymium as Pr	Samarium as Sm	Scandium as Sc	Terbium as Tb	Thorium as Th	Thulium as Tm	Ytterbium as Yb	Yttrium 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/LKD-BH-01/01	6538/01	129.6	2.2	7.9	1.2	7.3	<1.0	57.1	<1.0	127.9	15.3	6.5	17.6	<1.0	33.0	<1.0	2.1	10.8	<1.0	32.0	69.0	1.87
2	D/LKD-BH-01/03	6538/03	87.7	2.8	7.8	<1.0	10.1	<1.0	43.0	1.2	104.2	13.6	5.0	12.9	<1.0	58.9	<1.0	3.3	15.9	7.5	29.0	89.0	1.39
3	D/LKD-BH-01/05	6538/05	141.7	4.4	19.2	3.1	12.8	<1.0	61.8	<1.0	258.4	18.3	12.3	20.6	<1.0	39.8	<1.0	2.6	13.0	<1.0	43.1	199.0	3.97
4	D/LKD-BH-01/09	6538/09	180.5	2.6	22.5	1.9	12.6	<1.0	96.6	2.4	272.0	23.0	6.8	26.2	<1.0	69.2	<1.0	2.7	12.1	<1.0	35.7	205.0	6.11
5	D/LKD-BH-02/05	6538/16	97.2	5.8	35.2	2.4	37.4	<1.0	46.1	4.1	364.1	28.0	10.5	28.6	<1.0	184.5	<1.0	5.2	15.3	50.3	17.9	211.0	5.56
6	D/LKD-BH-02/07	6538/18	141.9	6.7	20.1	3.8	32.4	<1.0	81.8	3.4	252.5	29.8	13.8	19.4	<1.0	129.4	<1.0	5.3	44.3	48.3	40.9	168.0	4.04
7	D/LKD-BH-02/09	6538/20	76.2	4.0	12.4	1.9	21.0	<1.0	43.2	2.1	156.9	20.5	7.2	13.7	<1.0	90.5	<1.0	2.7	14.4	54.4	19.3	127.0	2.84
8	D/LKD-BH-02/11	6538/22	71.3	2.8	12.0	1.5	20.1	<1.0	40.4	2.0	151.7	18.1	7.5	13.3	<1.0	87.7	<1.0	2.5	13.9	38.3	23.1	134.0	2.96

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

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Reviewed

A.L.Kanta Rao
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AUTHORISED SIGNATORY



TEST RESULTS



Issued to:
Critical Mineral Trackers,
N.No 7-1-58/CC/406, 'Concourse', Opp.Lal Bungalow
Greenlands, Ameerpet,
Hyderabad-500 016
Kind Attn.:Mr.K.Nageshwar Rao, 7893847742

ULR : TC591825000003212F
LAB REGISTRATION NO: LL/25-26/007472(1 to 04)
Date. Of Receipt of Sample : 08.10.2025
Date. Of Starting of Analysis : 10.10.2025
Date. Of Completing of Analysis : 24.10.2025

Sample Particulars: Bauxite Samples.
Sample Qty : 500g x 04Nos

S. No	Sample ID	Reg no	Cerium as Ce	Dysprosi um as Dy	Erbium as Er	Europiu m as Eu	Gadolinu m as Gd	Holmiu m as Ho	Lanthanu m as La	Lutetium as Lu	Neodymiu m as Nd	Praseodym ium as Pr	Samerium as Sm	Scandium as Sc	Terbium as Tb	Thorium as Th	Thullium as Tm	Ytterbium as Yb	Yettrium 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/LKD - BH - 03/01	7472/01	120.9	4.5	4.7	18.7	5.6	<1.0	62.3	<1.0	275.1	32.9	2.9	21.0	<1.0	243.2	<1.0	9.0	10.6	394.3	46.7	872.3	2.26
2	D/LKD - BH - 03/03	7472/03	380.6	11.8	1.5	13.6	13.1	<1.0	173.6	<1.0	538.9	32.0	18.6	14.7	<1.0	50.5	<1.0	3.8	15.3	<1.0	34.8	153.7	4.21
3	D/LKD - BH - 03/05	7472/05	224.2	13.2	3.5	13.1	21.6	<1.0	92.3	<1.0	257.7	<1.0	23.5	16.5	<1.0	73.7	<1.0	5.5	24.7	70.4	28.8	351.4	0.71
4	D/LKD - BH - 03/06	7472/06	101.9	3.7	0.9	5.0	5.1	<1.0	43.8	<1.0	244.4	8.8	4.4	14.8	<1.0	52.3	<1.0	3.8	9.0	<1.0	20.7	166.4	2.00

Test Method: SOP OM-08 and SOP-OM-12, Instrument Used: ICP-OES
Note 1: The above results are expressed on dry basis.

P.V.V. Satya Kumar
Reviewed

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, Ameerpet,
Hyderabad-500 016
Kind Attn.:Mr.K.Nageshwar Rao, 7893847742

ULR : TC591825000003213F
LAB REGISTRATION NO: LL/25-26/007473(1 to 03)
Date. Of Receipt of Sample : 08.10.2025
Date. Of Starting of Analysis : 10.10.2025
Date. Of Completing of Analysis : 24.10.2025

Sample Particulars: Bauxite Samples.
Sample Qty : 500g x 03Nos

S.No	Sample ID	Reg no	Cerium as Ce	Dysprosium as Dy	Erbium as Er	Europium as Eu	Gadolinium as Gd	Holmium as Ho	Lanthanum as La	Lutetium as Lu	Neodymium as Nd	Praseodymium as Pr	Samarium as Sm	Scandium as Sc	Terbium as Tb	Thorium as Th	Thulium as Tm	Ytterbium as Yb	Yttrium as Y	Uranium as U	Gallium as Ga	Vanadium as V	Titanium as TiO ₂
			(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(% by mass)
1	D/LKD- BH- 04/01	7473/01	135.2	4.4	2.2	21.4	5.3	<1.0	54.3	<1.0	213.6	17.5	5.0	11.8	<1.0	99.8	3.6	4.4	14.0	87.9	16.3	133.9	1.41
2	D/LKD- BH- 04/02	7473/02	160.3	4.4	2.0	22.9	7.2	<1.0	63.0	<1.0	215.5	16.1	4.5	10.4	<1.0	100.4	4.2	4.2	13.7	98.9	14.9	129.8	1.45
3	D/LKD- BH- 04/03	7473/03	53.4	1.9	2.2	26.9	3.3	<1.0	27.6	<1.0	90.2	11.5	3.9	9.3	<1.0	104.4	1.2	4.6	7.8	163.7	31.3	366.6	0.55

Test Method: SOP OM-08 and SOP-OM-12, Instrument Used: ICP-OES
Note 1: The above results are expressed on dry basis.

P.V.V. Satya Kumar
Reviewed

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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 22 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/25-26/006538 (1-22)
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/25-26/006538-01	D/LKD- BH- 01/01	56.60	24.63	2.51	0.01	0.58	1.84	2.64	0.66	1.61	0.13	8.07	68.6
02	LL/25-26/006538-02	D/LKD- BH- 01/02	60.90	21.33	3.76	0.02	0.46	2.75	1.10	0.80	1.48	0.06	6.64	83.3
03	LL/25-26/006538-03	D/LKD- BH- 01/03	67.34	16.39	5.34	0.02	0.30	0.69	1.01	0.81	1.71	0.05	5.86	89.1
04	LL/25-26/006538-04	D/LKD- BH- 01/04	43.36	27.93	6.89	0.09	0.48	4.83	1.38	0.72	3.55	0.06	10.21	140.3
05	LL/25-26/006538-05	D/LKD- BH- 01/05	34.26	36.82	3.01	0.01	0.29	2.13	1.25	0.34	4.50	0.12	16.79	199.1
06	LL/25-26/006538-06	D/LKD- BH- 01/06	41.50	35.93	2.20	0.01	0.14	0.26	0.33	0.15	4.75	0.24	14.00	194.9
07	LL/25-26/006538-07	D/LKD- BH- 01/07	42.17	32.38	8.59	0.01	0.16	0.56	0.21	0.08	4.12	0.11	11.11	251.5
08	LL/25-26/006538-08	D/LKD- BH- 01/08	39.18	30.65	13.71	0.01	0.16	0.49	0.21	0.05	4.17	0.11	10.65	227.7
09	LL/25-26/006538-09	D/LKD- BH- 01/09	44.96	33.85	4.49	0.01	0.19	0.24	0.25	0.08	4.72	0.13	10.54	204.9
10	LL/25-26/006538-10	D/LKD- BH- 01/10	41.58	33.50	6.96	0.02	0.20	0.15	0.26	0.06	5.23	0.19	11.47	243.7
11	LL/25-26/006538-11	D/LKD- BH- 01/11	39.35	30.35	14.69	0.01	0.15	0.15	0.31	0.06	3.34	0.38	10.71	168.5
12	LL/25-26/006538-12	D/LKD- BH- 02/01	18.59	17.17	36.93	0.03	0.48	0.81	2.82	0.02	9.87	1.57	11.25	483.6
13	LL/25-26/006538-13	D/LKD- BH- 02/02	32.60	28.90	17.64	0.05	0.40	0.72	0.96	0.01	5.35	0.59	12.29	247.5
14	LL/25-26/006538-14	D/LKD- BH- 02/03	32.31	27.57	20.43	0.10	0.42	0.32	0.93	0.01	6.03	0.54	10.79	335.4
15	LL/25-26/006538-15	D/LKD- BH- 02/04	27.80	19.70	26.66	0.08	1.36	2.80	0.65	0.09	7.78	0.82	11.49	474.5
16	LL/25-26/006538-16	D/LKD- BH- 02/05	36.00	19.11	20.99	0.04	0.80	0.59	1.63	0.30	7.18	0.34	12.78	210.7
17	LL/25-26/006538-17	D/LKD- BH- 02/06	29.73	23.51	23.57	0.06	1.03	1.00	0.65	0.21	7.29	0.77	11.39	506.7
18	LL/25-26/006538-18	D/LKD- BH- 02/07	48.32	11.46	15.91	0.07	4.79	1.71	1.23	1.11	3.56	0.90	10.16	167.8
19	LL/25-26/006538-19	D/LKD- BH- 02/08	44.77	9.24	12.13	0.29	7.86	5.49	1.10	0.95	2.90	0.66	14.03	126.3
20	LL/25-26/006538-20	D/LKD- BH- 02/09	42.03	8.48	10.43	0.14	15.10	0.51	5.20	1.14	2.37	0.48	13.74	126.7
21	LL/25-26/006538-21	D/LKD- BH- 02/10	43.42	8.22	10.59	0.06	16.69	0.57	3.35	1.13	2.55	0.56	12.44	142.4
22	LL/25-26/006538-22	D/LKD- BH- 02/11	43.29	8.52	10.76	0.05	17.12	0.41	2.44	1.04	2.43	0.49	12.98	134.1

Test Method: SOP-OM-03, Instrument Used: WD-XRF
Note: The above results are expressed on dry basis.

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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 08 N


Report No : LL/25-26/007472 (1-08)
Report Issue Date : 24.10.2025
Date of Receipt of Sample : 08.10.2025
Date of Starting of Analysis : 10.10.2025
Date of Completing of Analysis : 24.10.2025

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 (% 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/25-26/007472-01	D/LKD - BH - 03/01	29.33	24.72	25.52	0.02	0.35	3.90	0.28	0.28	2.26	0.11	12.74	872.3
02	LL/25-26/007472-02	D/LKD - BH - 03/02	33.92	29.48	17.55	0.01	0.23	1.87	0.21	0.29	2.97	0.12	12.83	898.6
03	LL/25-26/007472-03	D/LKD - BH - 03/03	46.13	34.51	1.26	0.01	0.17	1.13	0.20	0.18	4.21	0.23	11.49	153.7
04	LL/25-26/007472-04	D/LKD - BH - 03/04	60.81	26.20	1.28	0.01	0.11	1.30	0.32	0.05	2.12	0.42	6.78	78.1
05	LL/25-26/007472-05	D/LKD - BH - 03/05	48.47	32.16	6.77	0.01	0.19	0.47	0.26	0.08	0.71	0.25	10.10	351.4
06	LL/25-26/007472-06	D/LKD - BH - 03/06	60.25	26.59	3.08	0.01	0.15	0.83	0.39	0.06	2.00	0.09	6.12	166.4
07	LL/25-26/007472-07	D/LKD - BH - 03/08	62.30	25.52	2.88	0.01	0.13	0.40	0.30	0.16	1.49	0.13	6.23	95.3
08	LL/25-26/007472-08	D/LKD - BH - 03/11	74.43	16.59	2.72	0.01	0.09	1.05	0.21	0.06	0.39	0.06	4.17	34.5

Test method: SOP-OM-11, Instrument Used : WD-XRF
Note: The above results are expressed on dry basis.

P.V.V. Satyakumoru
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 06 N

Report No : LL/25-26/007473 (1-06)
Report Issue Date : 24.10.2025
Date of Receipt of Sample : 08.10.2025
Date of Starting of Analysis : 10.10.2025
Date of Completing of Analysis : 24.10.2025

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 (% 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/25-26/007473-01	D/LKD - BH - 04/01	50.12	18.81	9.71	0.03	0.67	8.91	0.27	0.59	1.41	0.10	9.05	133.9
02	LL/25-26/007473-02	D/LKD - BH - 04/02	50.06	17.44	9.07	0.02	0.49	10.80	0.21	0.38	1.45	0.10	9.61	129.8
03	LL/25-26/007473-03	D/LKD - BH - 04/03	33.55	25.39	10.53	0.01	0.31	11.04	0.12	0.15	0.55	0.06	17.97	366.6
04	LL/25-26/007473-04	D/LKD - BH - 04/04	41.17	27.48	4.99	0.01	0.36	10.07	0.17	0.25	0.82	0.07	14.26	195.3
05	LL/25-26/007473-05	D/LKD - BH - 04/05	63.71	23.21	3.93	0.01	0.26	1.55	0.25	0.31	0.94	0.06	5.52	149.7
06	LL/25-26/007473-06	D/LKD - BH - 04/06	69.34	18.41	4.26	0.01	0.24	0.75	0.30	0.31	1.45	0.06	4.43	95.9

Test method: SOP-OM-11, Instrument Used : WD-XRF

Note: The above results are expressed on dry basis.

P.V.V. Satyakumari
Reviewed by


A.L. Kanta Rao
AUTHORISED SIGNATORY