

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.

Report No : LL/25-26/001204 (1-90)
Report Issue Date : 29.05.2025
Date of Receipt of Sample : 02.05.2025
Date of Starting of Analysis : 05.05.2025
Date of Completing of Analysis : 29.05.2025

Sample Particulars: Bauxite Samples.

Block Name : Nadapa,

Sample Qty : 500g x 90 N

Customer Ref Letter: CMT/Lucid/01/2025 Dated: 30.04.2025

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)	Vanadium as V (ppm)	Loss on Ignition (LOI) (% by mass)
01	LL/25-26/001204/01	P1/NB/2025	55.13	22.85	3.75	0.01	0.45	0.22	6.11	0.99	0.99	0.05	103.53	9.19
02	LL/25-26/001204/02	P2/NB/2025	54.02	34.05	1.41	0.01	0.60	0.19	0.22	0.64	1.47	0.04	82.50	7.18
03	LL/25-26/001204/03	P3/NB/2025	51.25	34.89	1.57	0.00	0.62	0.13	0.64	1.19	1.36	0.04	71.90	7.97
04	LL/25-26/001204/04	P4/NB/2025	56.89	29.95	2.48	0.00	0.74	0.05	0.82	1.67	0.94	0.05	80.55	6.25
05	LL/25-26/001204/05	P5/NB/2025	74.96	14.01	3.67	0.04	0.27	0.44	0.17	2.19	1.31	0.04	52.28	2.64
06	LL/25-26/001204/06	P6/NB/2025	58.96	17.18	15.38	0.01	0.46	0.22	0.45	1.52	0.88	0.17	168.10	4.70
07	LL/25-26/001204/07	P7/NB/2025	66.40	17.56	5.46	0.07	1.04	0.81	0.51	1.96	0.99	0.04	77.80	5.03
08	LL/25-26/001204/08	P8/NB/2025	70.77	19.96	2.38	0.01	0.39	0.29	0.46	2.49	0.90	0.02	15.70	2.12
09	LL/25-26/001204/09	P9/NB/2025	72.95	10.84	6.58	0.02	0.61	1.45	0.55	1.95	0.98	0.04	41.50	3.85
10	LL/25-26/001204/10	P10/NB/2025	60.90	24.03	3.89	0.01	0.72	0.32	1.56	1.77	1.41	0.05	77.80	5.07
11	LL/25-26/001204/11	T1/NB/2025/01	65.86	20.98	3.78	0.02	0.77	0.67	0.38	2.64	0.71	0.03	30.80	3.87
12	LL/25-26/001204/12	T1/NB/2025/02	59.68	20.88	5.11	0.02	0.92	0.46	0.46	2.45	0.80	0.03	41.40	8.92
13	LL/25-26/001204/13	T1/NB/2025/03	68.99	18.41	3.72	0.02	0.70	0.49	0.37	2.52	0.80	0.03	31.90	3.67
14	LL/25-26/001204/14	T1/NB/2025/04	70.24	19.10	2.78	0.01	0.64	0.19	0.41	2.78	0.70	0.03	23.80	3.01
15	LL/25-26/001204/15	T1/NB/2025/05	69.42	20.94	2.14	0.01	0.58	0.11	0.30	2.74	0.87	0.03	25.50	2.65
16	LL/25-26/001204/16	T1/NB/2025/06	68.86	21.65	2.07	0.02	0.57	0.29	0.34	2.78	0.74	0.03	22.70	2.54
17	LL/25-26/001204/17	T1/NB/2025/07	68.34	20.82	2.00	0.01	0.73	0.77	0.42	2.54	1.01	0.04	26.80	3.13
18	LL/25-26/001204/18	T1/NB/2025/08	68.77	19.32	2.07	0.01	0.87	1.09	0.43	2.42	0.88	0.04	29.60	3.89
19	LL/25-26/001204/19	T1/NB/2025/09	57.08	20.04	6.35	0.02	1.41	2.63	0.88	2.09	0.58	0.03	43.40	8.59
20	LL/25-26/001204/20	T1/NB/2025/10	50.08	20.57	12.45	0.03	1.71	2.08	0.99	1.75	0.87	0.05	76.80	9.22
21	LL/25-26/001204/21	T1/NB/2025/A	63.82	23.92	2.93	0.02	0.78	0.78	0.30	2.66	0.63	0.03	28.70	3.80
22	LL/25-26/001204/22	T1/NB/2025/B	63.24	20.35	4.96	0.02	1.15	1.13	0.45	2.15	0.85	0.04	50.90	5.53
23	LL/25-26/001204/23	T1/NB/2025/C	62.01	20.10	4.74	0.01	1.41	0.78	1.42	2.00	1.00	0.05	64.80	6.23

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

Note: The above results are expressed on dry basis.

Aloni
Reviewed by

R. R. Moorthy
Dr.R.Krishna Moorthy
AUTHORISED SIGNATORY

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Report Issue Date : 29.05.2025
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Date of Starting of Analysis : 05.05.2025
Date of Completing of Analysis : 29.05.2025

Sample Particulars: Bauxite Samples.
Block Name : Nadapa,
Sample Qty : 500g x 90 N

Customer Ref Letter: CMT/Lucid/01/2025 Dated: 30.04.2025

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)	Vanadium as V (ppm)	Loss on Ignition (LOI) (% by mass)
24	LL/25-26/001204/24	T1/NB/2025/D	61.95	22.86	3.54	0.01	1.16	1.25	0.42	2.17	0.88	0.04	51.30	5.53
25	LL/25-26/001204/25	P11/NB/2025	66.54	20.83	4.57	0.02	0.42	0.41	0.15	1.52	1.34	0.07	85.75	3.96
26	LL/25-26/001204/26	T2/NB/2025/01	64.98	19.02	4.10	0.01	1.24	0.41	1.31	1.58	1.61	0.07	108.40	5.48
27	LL/25-26/001204/27	T2/NB/2025/02	65.39	20.97	4.09	0.02	0.93	0.44	0.81	1.88	1.24	0.06	56.30	4.09
28	LL/25-26/001204/28	T2/NB/2025/03	62.66	4.83	18.66	0.07	0.59	4.19	0.24	1.58	0.91	0.13	76.90	5.94
29	LL/25-26/001204/29	T2/NB/2025/04	63.51	5.05	18.12	0.07	0.60	3.72	0.28	1.54	0.85	0.13	67.10	6.05
30	LL/25-26/001204/30	T2/NB/2025/05	65.80	18.75	5.33	0.02	0.75	1.41	0.49	1.96	1.33	0.07	40.50	3.77
31	LL/25-26/001204/31	T2/NB/2025/06	56.06	25.04	5.18	0.01	0.99	0.23	0.49	1.52	1.84	0.07	125.30	8.38
32	LL/25-26/001204/32	T2/NB/2025/07	57.98	20.80	6.96	0.02	1.05	1.01	0.37	1.28	1.09	0.06	109.30	9.10
33	LL/25-26/001204/33	T2/NB/2025/08	58.94	19.21	8.56	0.03	0.99	0.70	0.32	1.31	1.23	0.07	93.70	8.32
34	LL/25-26/001204/34	T2/NB/2025/09	61.33	23.02	3.86	0.01	0.97	0.11	0.31	1.37	1.46	0.05	86.00	7.27
35	LL/25-26/001204/35	T2/NB/2025/10	60.91	21.96	4.71	0.03	1.01	0.21	0.35	1.31	1.52	0.05	92.30	7.70
36	LL/25-26/001204/36	T2/NB/2025/A	64.95	18.54	4.63	0.02	0.87	0.63	0.15	1.35	1.82	0.05	78.60	6.68
37	LL/25-26/001204/37	T2/NB/2025/B	61.99	19.24	5.19	0.02	1.04	1.19	0.36	1.34	1.68	0.06	82.00	7.67
38	LL/25-26/001204/38	T2/NB/2025/C	61.13	18.30	8.09	0.03	1.06	0.46	0.32	1.30	1.40	0.06	93.40	7.60
39	LL/25-26/001204/39	T2/NB/2025/D	60.24	18.99	6.98	0.03	1.06	1.11	0.33	1.29	1.45	0.06	87.90	8.28
40	LL/25-26/001204/40	P12/NB/2025	55.40	28.81	2.81	0.03	0.45	0.70	0.23	1.09	1.21	0.04	83.28	9.09
41	LL/25-26/001204/41	P13/NB/2025	64.50	17.57	6.44	0.02	1.09	0.21	0.41	1.32	0.98	0.06	95.35	7.19
42	LL/25-26/001204/42	P14/NB/2025	77.97	13.25	2.15	0.01	0.15	0.17	0.06	0.85	0.52	0.02	69.10	4.53
43	LL/25-26/001204/43	P15/NB/2025	61.24	23.41	2.44	0.03	0.91	0.11	0.30	1.17	1.01	0.03	91.65	9.15
44	LL/25-26/001204/44	P16/NB/2025	54.92	0.31	4.60	0.03	1.41	17.76	0.19	0.91	0.39	0.08	60.20	19.08
45	LL/25-26/001204/45	P17/NB/2025	60.98	21.10	3.10	0.03	0.24	0.11	3.74	0.68	1.19	0.03	108.53	8.50
46	LL/25-26/001204/46	T3/NB/2025/01	57.96	21.02	9.69	0.09	0.60	0.33	0.06	1.18	0.79	0.08	57.40	8.01

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

Note: The above results are expressed on dry basis.

Alwi
Reviewed by

R. R. Krishna Moorthy
Dr.R.Krishna Moorthy
AUTHORISED SIGNATORY

Lucid Laboratories Pvt. Ltd.

Plot No. 3, IDA, Balanagar, Hyderabad - 500 037, Telangana, INDIA, Ph : .040-69042222/10 Lines
E-mail: info@lucidlabsindia.com, website : www.lucidlabsindia.com CIN No. : U24239TG2004PTC042390

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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)	Vanadium as V (ppm)	Loss on Ignition (LOI) (% by mass)
47	LL/25-26/001204/47	T3/NB/2025/02	54.39	23.13	10.40	0.08	0.68	0.24	0.06	1.11	0.83	0.06	84.00	8.73
48	LL/25-26/001204/48	T3/NB/2025/03	53.37	24.48	8.85	0.07	0.70	0.28	0.05	1.15	0.88	0.04	99.70	9.88
49	LL/25-26/001204/49	T3/NB/2025/04	50.30	24.54	11.26	0.09	0.78	0.55	0.06	1.06	1.05	0.04	89.40	10.06
50	LL/25-26/001204/50	T3/NB/2025/05	55.39	20.17	12.95	0.11	0.68	0.26	0.07	1.21	0.87	0.06	85.50	8.06
51	LL/25-26/001204/51	T3/NB/2025/06	56.77	17.70	13.60	0.12	0.55	0.76	0.15	1.30	1.01	0.04	93.90	7.70
52	LL/25-26/001204/52	T3/NB/2025/07	65.72	12.59	12.03	0.08	0.37	0.38	0.10	1.37	0.90	0.03	60.90	6.22
53	LL/25-26/001204/53	T3/NB/2025/08	57.90	22.11	4.91	0.04	0.64	2.11	0.11	1.57	1.46	0.03	76.50	8.79
54	LL/25-26/001204/54	T3/NB/2025/09	56.99	24.13	5.25	0.05	0.57	1.15	0.10	1.55	1.07	0.03	64.80	8.87
55	LL/25-26/001204/55	T3/NB/2025/10	59.81	23.21	3.96	0.03	0.49	1.09	0.09	1.71	2.02	0.03	63.80	7.48
56	LL/25-26/001204/56	T3/NB/2025/A	60.23	18.99	9.46	0.07	0.65	0.29	0.09	1.38	1.29	0.08	89.40	7.18
57	LL/25-26/001204/57	T3/NB/2025/B	54.90	22.92	8.55	0.07	0.67	0.81	0.08	1.35	1.43	0.04	85.60	8.97
58	LL/25-26/001204/58	T3/NB/2025/C	59.24	23.20	4.57	0.05	0.69	1.33	0.08	1.46	1.66	0.04	63.70	7.41
59	LL/25-26/001204/59	T3/NB/2025/D	59.64	22.77	6.14	0.06	0.61	1.08	0.09	1.77	1.36	0.07	71.80	6.27
60	LL/25-26/001204/60	P18/NB/2025	70.64	16.15	5.09	0.03	0.23	0.26	0.09	1.28	0.88	0.04	48.20	4.99
61	LL/25-26/001204/61	T4/NB/2025/01	63.68	0.65	14.12	0.03	1.06	8.88	0.21	1.28	0.47	0.09	86.20	9.31
62	LL/25-26/001204/62	T4/NB/2025/02	62.67	1.29	15.95	0.03	1.16	6.79	0.25	1.33	0.48	0.08	103.80	9.67
63	LL/25-26/001204/63	T4/NB/2025/03	69.00	2.49	7.36	0.02	1.19	7.33	0.21	1.46	0.53	0.08	61.90	10.18
64	LL/25-26/001204/64	T4/NB/2025/04	65.34	4.64	6.49	0.02	1.08	8.63	0.20	1.59	0.45	0.07	60.50	11.28
65	LL/25-26/001204/65	T4/NB/2025/05	57.60	4.71	15.63	0.04	1.04	7.84	0.20	1.32	0.48	0.07	94.00	11.00
66	LL/25-26/001204/66	T4/NB/2025/06	58.15	0.41	16.09	0.05	0.77	10.08	0.17	1.04	0.41	0.05	84.60	12.55
67	LL/25-26/001204/67	T4/NB/2025/07	73.26	1.00	11.17	0.04	0.89	3.84	0.16	1.47	0.83	0.06	70.30	7.16
68	LL/25-26/001204/68	T4/NB/2025/08	69.01	0.35	7.37	0.02	0.94	9.10	0.12	1.09	0.44	0.07	33.80	11.34
69	LL/25-26/001204/69	T4/NB/2025/09	68.61	0.28	5.81	0.03	1.50	9.91	0.17	1.10	0.61	0.12	42.40	11.58

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

Note: The above results are expressed on dry basis.

Page No. 3/4

Almit
Reviewed by

R. Krishna Moorthy
Dr.R.Krishna Moorthy
AUTHORISED SIGNATORY

Lucid Laboratories Pvt. Ltd.

Plot No. 3, IDA, Balanagar, Hyderabad - 500 037, Telangana, INDIA, Ph : .040-69042222/10 Lines
E-mail: info@lucidlabsindia.com, website : www.lucidlabsindia.com CIN No. : U24239TG2004PTC042390

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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)	Vanadium as V (ppm)	Loss on Ignition (LOI) (% by mass)
70	LL/25-26/001204/70	T4/NB/2025/10	69.93	0.31	8.67	0.03	0.98	7.52	0.15	1.13	0.86	0.07	50.70	10.12
71	LL/25-26/001204/71	T4/NB/2025/A	58.96	0.32	9.64	0.03	1.71	13.86	0.23	1.01	0.48	0.10	67.30	13.35
72	LL/25-26/001204/72	T4/NB/2025/B	62.01	0.29	6.61	0.04	1.78	14.02	0.35	0.92	0.53	0.10	37.10	13.26
73	LL/25-26/001204/73	T4/NB/2025/C	63.81	1.39	6.17	0.04	1.62	11.57	0.27	1.12	0.90	0.09	62.20	12.72
74	LL/25-26/001204/74	T4/NB/2025/D	69.33	0.41	5.38	0.03	1.66	11.39	0.32	0.96	0.52	0.10	39.80	9.74
75	LL/25-26/001204/75	T5/NB/2025/01	54.82	13.92	20.70	0.10	0.21	0.48	0.08	1.20	0.67	0.02	51.80	7.48
76	LL/25-26/001204/76	T5/NB/2025/02	46.38	16.94	18.80	0.07	0.42	3.86	0.09	1.02	0.69	0.03	60.90	11.50
77	LL/25-26/001204/77	T5/NB/2025/03	51.78	9.84	25.05	0.18	0.26	1.64	0.08	1.10	0.55	0.02	49.10	9.36
78	LL/25-26/001204/78	T5/NB/2025/04	53.61	9.99	25.97	0.21	0.19	0.33	0.08	1.16	0.56	0.02	54.78	7.70
79	LL/25-26/001204/79	T5/NB/2025/05	46.31	24.46	16.81	0.04	0.31	0.35	0.07	1.09	0.98	0.02	82.20	9.30
80	LL/25-26/001204/80	T5/NB/2025/06	44.84	23.94	16.91	0.05	0.33	1.34	0.07	1.11	0.96	0.02	82.40	10.27
81	LL/25-26/001204/81	T5/NB/2025/07	51.00	16.55	21.57	0.09	0.22	0.17	0.08	1.33	0.72	0.02	65.00	8.17
82	LL/25-26/001204/82	T5/NB/2025/08	49.81	15.27	23.14	0.09	0.29	0.74	0.08	1.13	0.60	0.02	93.60	8.73
83	LL/25-26/001204/83	T5/NB/2025/09	57.97	12.10	19.02	0.08	0.45	0.88	0.08	1.01	0.61	0.03	64.60	7.55
84	LL/25-26/001204/84	T5/NB/2025/10	55.86	19.77	13.00	0.04	0.45	0.42	0.08	1.05	0.95	0.03	81.0	8.04
85	LL/25-26/001204/85	T5/NB/2025/A	53.04	17.18	7.93	0.03	0.68	6.10	0.12	0.91	0.89	0.07	61.00	12.87
86	LL/25-26/001204/86	T5/NB/2025/B	56.06	27.94	2.31	0.01	0.63	1.37	0.09	0.91	1.31	0.04	66.10	9.27
87	LL/25-26/001204/87	T5/NB/2025/C	59.78	27.00	1.94	0.01	0.67	0.61	0.07	0.83	0.88	0.03	78.05	7.96
88	LL/25-26/001204/88	T5/NB/2025/D	58.61	26.49	2.16	0.01	0.66	1.04	0.08	0.87	1.27	0.03	63.20	8.66
89	LL/25-26/001204/89	P19/NB/2025	44.74	9.71	29.97	0.19	0.37	2.03	0.06	0.45	0.74	0.37	299.18	11.22
90	LL/25-26/001204/90	P20/NB/2025	56.11	28.55	2.27	0.03	0.54	0.10	0.35	0.64	1.03	0.03	101.58	10.05

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

Note: The above results are expressed on dry basis.


Reviewed by


Dr. R. Krishna Moorthy
AUTHORISED SIGNATORY

