

Certified Check Sample Chemical Analysis



TEST RESULTS OF LIMESTONE SAMPLES

Issued to:

The Director (Tech),
GUJARAT MINERAL RESEARCH & DEVELOPMENT SOCIETY
Industries & Mines Department, Government of Gujarat,
Petrography & Mineral Chemistry Laboratory,
Near Solar Park, PDPU Road, Raysan,
Gandhi Nagar – 382 007.

Letter No: GMRDS/Technical/Lodhwa/20/2024-25/728, Date: 04.08.2025.

Reference No: -GMRDS work order no: GMRDS/Tech/Cross Ck Mineral analysis/718/25-26, Date: 28.07.2025.

ULR: TC591825000005329F

Report No: LL/25-26/005329 - 005332 (1-23)

Date of Receipt of Sample : 07.08.2025

Date of Starting of Analysis : 08.08.2025

Date of Completing of Analysis : 18.08.2025

Sample Particulars: Limestone Samples.

Sl.No	Lab. No.	Sample ID	Lab.Ref.No	Silica as SiO ₂ (% by mass)	Calcium as CaO (% by mass)	Magnesium as MgO (% by mass)	Aluminium as Al ₂ O ₃ (% by mass)	Iron as Fe ₂ O ₃ (% by mass)	Phosphorus as P ₂ O ₅ (% by mass)	Sulphur as SO ₃ (% by mass)	Manganese as Mn ₂ O ₃ (% by mass)	Titanium as TiO ₂ (% by mass)	Sodium as Na ₂ O (% by mass)	Potassium as K ₂ O (% by mass)	Loss on Ignition as LOI (% by mass)
1	LL/25-26/005329/01	SBH-1/01	C/D/25-26/937	5.94	48.85	0.90	1.93	1.43	0.06	0.10	0.02	0.14	0.27	0.16	39.97
2	LL/25-26/005329/02	SBH-2/03	C/D/25-26/947	5.53	49.21	1.43	1.21	0.96	0.06	0.09	0.02	0.10	0.33	0.13	40.47
3	LL/25-26/005329/03	SBH-3/02	C/D/25-26/955	39.97	15.84	5.33	10.85	7.67	0.09	0.07	0.08	1.07	1.36	0.72	16.49
4	LL/25-26/005329/04	SBH-4/03	C/D/25-26/960	39.51	16.40	4.97	10.69	7.55	0.10	0.07	0.07	0.91	0.88	0.81	17.74
5	LL/25-26/005330/01	BLBH-3/04	C/D/25-26/888	8.07	48.08	0.62	2.60	1.52	0.03	0.03	0.03	0.14	0.07	0.34	38.31
6	LL/25-26/005330/02	BLBH-4/04	C/D/25-26/898	18.44	40.44	0.72	4.15	2.27	0.01	0.02	0.05	0.23	0.09	0.53	32.82
7	LL/25-26/005330/03	BLBH-5/05	C/D/25-26/914	12.42	44.52	0.63	3.61	1.91	0.02	0.02	0.07	0.19	0.08	0.47	35.43
8	LL/25-26/005330/04	BLBH-5/16	C/D/25-26/925	68.91	9.90	1.16	6.08	2.81	0.02	0.02	0.04	0.50	0.21	1.07	8.73
9	LL/25-26/005331/01	MTBH-1/02	C/D/25-26/1242	6.22	50.06	0.69	1.71	1.37	0.08	0.04	0.02	0.13	0.11	0.17	39.16
10	LL/25-26/005331/02	MTBH-2/08	C/D/25-26/1255	52.34	15.84	1.66	8.46	5.00	0.27	0.02	0.07	0.65	0.48	1.39	13.35
11	LL/25-26/005331/03	MTBH-3/02	C/D/25-26/1258	7.86	46.94	0.89	2.54	1.81	0.06	0.01	0.08	0.16	0.30	0.72	38.39
12	LL/25-26/005331/04	MTBH-4/07	C/D/25-26/1270	41.74	26.87	0.87	5.22	2.65	0.05	0.06	0.07	0.29	0.12	0.29	21.56
13	LL/25-26/005332/01	LBH-1/03	C/D/25-26/1283	11.6	46.23	0.48	2.46	2.02	0.26	0.02	0.11	0.16	0.06	0.13	36.26
14	LL/25-26/005332/02	LBH-1/11	C/D/25-26/1291	60.06	10.46	1.59	9.73	4.75	0.11	0.01	0.07	0.66	0.36	1.79	10.05
15	LL/25-26/005332/03	LBH-2/03	C/D/25-26/1300	11.46	45.81	0.51	3.12	2.27	0.17	0.02	0.06	0.22	0.07	0.10	35.83
16	LL/25-26/005332/04	LBH-2/13	C/D/25-26/1310	56.26	13.57	1.59	9.52	4.36	0.09	0.02	0.07	0.59	0.41	1.50	11.73
17	LL/25-26/005332/05	LBH-3/04	C/D/25-26/1319	37.04	18.95	2.59	13.19	6.61	0.08	0.03	0.07	0.65	0.28	1.58	18.7
18	LL/25-26/005332/06	LBH-3/07	C/D/25-26/1322	52.94	7.92	2.83	14.95	6.11	0.12	0.02	0.06	0.83	0.29	2.12	11.48
19	LL/25-26/005332/07	LBH-4/08	C/D/25-26/1334	16.62	42.70	0.61	3.19	2.34	0.10	0.03	0.06	0.23	0.12	0.23	33.61
20	LL/25-26/005332/08	LBH-5/05	C/D/25-26/1345	15.35	41.85	0.60	4.03	2.34	0.11	0.03	0.07	0.23	0.11	0.14	34.40
21	LL/25-26/005332/09	LBH-5/12	C/D/25-26/1352	28.74	28.56	1.86	9.91	4.25	0.08	0.04	0.06	0.49	0.27	1.34	24.14
22	LL/25-26/005332/10	LBH-6/05	C/D/25-26/1358	35.25	26.58	2.07	7.90	3.43	0.06	0.02	0.11	0.47	0.29	0.82	22.42
23	LL/25-26/005332/11	LBH-7/08	C/D/25-26/1370	34.18	24.04	2.25	10.50	5.05	0.07	0.04	0.07	0.56	0.41	1.54	21.04

Test Method: LOI as per IS: 1760 (P-1), others by WD XRF Pan analytical Axion max.

Note 1: The above results are as on dry basis.

Note 2: The report and results relate only to the samples/items tested.

Note 3: Sample ID & Lab Ref.No(s) are mentioned as per the labels mention on the packet.