

**Physical Data of Gagrana Limestone Mines, of M/s Mangalam Cement Ltd.
Village Gagrana , Tehsil –Merta City ,Distt Nagour (Raj)**

S. No.	Item	Description
1	Mining lease Area	200 Hectors
2	Limestone Production (During 2023-2024 up to 31 st Dec.)	699.48 Tons
3	Lease Duration (After Govt. Ordinance 2015)	22.10.1982 to 21.10.2032
4	Date of commencement of Work	1st January ,1983

**Quality of Tube Well water in & around Gagrana Limestone Mines.
Date of Monitoring : 17.11.2023**

Parameters	Unit	Gokul ram Jat Tube Well , Village-Gagrana	Govind singh Tube Well , Village-Gagrana	Manga ram Tube Well , Village-Gagrana	Saddik Khan Tube Well , Village-Gagrana
pH		7.04	7.30	7.27	7.07
Total Hardness as CaCO ₃	Mg/Li	542.0	528.0	570.0	528.0
Total Alkalinity	Mg/Li	304.0	324.0	306.0	304.0
Total Dissolved Solids	Mg/Li	1748.0	1760.0	1774.0	1760.0
Sulphate as SO ₄	Mg/Li	202.50	246.0	182.2	175.30
Nitrates as NO ₃	Mg/Li	8.0	7.80	8.6	7.60
Chloride as Cl	Mg/Li	796.0	783.0	778.0	750.0

Ambient Air Quality Report with in Core and Buffer Zone of Gagrana Limestone Mines, Gagrana Date of Monitoring :16.11.2023 - 18.11.2023

S. No.	Location of Monitoring Station	SPM µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO _X µg/m ³
1	Core Zone :					
2	Mangi Ki Mangri	298.97	28.01	60.26	8.21	12.98
3	Near Anicut (Banddha)	355.26	27.95	55.30	9.46	11.05
4	Mine Working Pit (Current)	329.75	31.36	62.24	8.21	10.05
	Mine Worrking Block -A	308.16	31.22	58.26	7.10	9.46
	Buffer Zone :					
5	Bitan Village	336.15	31.14	61.07	10.25	12.37
6	Basni Seja Village	363.85	25.02	60.12	9.65	12.34
7	Gagrana Village	396.15	31.52	70.21	12.78	15.12
8	Ghantiya Village	365.99	32.59	68.74	10.81	12.46

Details of Plantation of last 8-year within & Out Side Mining Lease area

Year	No. of sapling Planted	Rate of Survival %	species
2016-17	150	53	Neem, Karanj, Khejdi, Subabool, Peepal ,Bad, Amwala, Jal, Jangal Jalebi etc.
2017-18	300	51	
2018-19	250	51	
2019-20	250	50	
2020-21	250	62	
2021-22	250	60	
2022-23	250	57.8	
2023-24	250	Under Progress	

Dec-2023