

**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 2022-2023 up to 31 st Dec.)	28127.13 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 : 22.11.2022**

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		7.31	7.35	7.39	7.42
Total Hardness as CaCO ₃	Mg/Li	516	496	500	484
Total Alkalinity	Mg/Li	288	316	282	236
Total Dissolved Solids	Mg/Li	1754	1767	1802	1764
Sulphate as SO ₄	Mg/Li	187.4	252.2	167.3	158.6
Nitrates as NO ₃	Mg/Li	7.3	6.7	7.5	6.4
Chloride as Cl	Mg/Li	805	786	772	740

Ambient Air Quality Report with in Core and Buffer Zone of Gagrana Limestone Mines, Gagrana Date of Monitoring :21.11.2022 - 22.11.2022

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	346.21	37.02	67.92	10.07	12.25
3	Near Anicut (Banddha)	355.99	33.40	64.04	11.15	13.52
4	Mine Working Pit (Current)	372.87	39.24	76.78	11.65	16.85
	Mine Worrking Block -A	413.90	41.11	79.81	13.52	17.90
	Buffer Zone :					
5	Bitan Village	324.04	34.62	63.79	9.44	11.51
6	Basni Seja Village	343.56	31.85	60.24	12.40	15.38
7	Gagrana Village	297.44	35.90	70.12	13.15	15.88
8	Ghantiya Village	315.96	39.66	78.09	9.76	12.67

Details of Plantation of last 7-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	Under Progress	

Dec-2022