

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

S. No.	Item	Description
1	Mining lease Area	200 Hectors
2	Limestone Production (During 2023-2024)	18106.0 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 : 13.05.2024**

Parameters	Unit	Gokul ram Jat Tube Well , Village-Gagrana	Govind singh Tube Well , Village-Gagrana	Manga Ramji Tube Well , Village-Gagrana	Saddik Khan Tube Well , Village-Gagrana
pH		7.22	7.31	7.37	7.19
Total Hardness as CaCO3	Mg/Li	584.0	576.0	596.0	580.0
Total Alkalinity	Mg/Li	344.0	356.0	340.0	348.0
Total Dissolved Solids	Mg/Li	1858.0	1870.0	1880.0	1876.0
Sulphate as SO4	Mg/Li	228.40	268.6	209.8	201.6
Nitrates as NO3	Mg/Li	9.80	9.20	10.20	9.40
Chloride as Cl	Mg/Li	845.0	820.0	825.0	795.0

**Ambient Air Quality Report with in Core and Buffer Zone of Gagrana Limestone
Mines, Gagrana Date of Monitoring :13.05.2024 - 14.05.2024**

S. No.	Location of Monitoring Station	SPM µg/m3	PM2.5 µg/m3	PM10 µg/m3	SO2 µg/m3	NOX µg/m3
Core Zone :						
1	Mangi Ki Mangri	318.247	32.20	63.22	8.79	12.43
2	Near Anicut (Banddha)	331.77	25.03	52.73	8.75	10.86
3	Mine Working Pit (Current)	338.91	34.52	65.16	7.74	10.56
4	Mine Working Block -A	317.6	28.42	56.42	7.64	9.88
Buffer Zone:						
5	Bitan Village	347.05	33.37	66.05	9.29	12.85
6	Basni Seja Village	377.87	29.28	64.36	8.81	11.83
7	Gagrana Village	414.61	35.95	74.50	13.39	16.54
8	Ghantiya Village	349.88	33.44	65.92	10.13	11.61

Details of Plantation of last 5-year within & Out Side Mining Lease area

Year	No. of sapling Planted	Rate of Survival %	species
2018-19	250	51	Neem, Karanj, Subabool, Peepal ,Bad, Amwala, Jal, Jangal Jalebi Karanj etc.
2019-20	250	50	
2020-21	250	55	
2021-22	250	63	
2022-23	250	61	
2023-24	250	64	

June-24