

**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 2022-2023 )	32323.79 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 : 17.05.2023**

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		7.38	7.46	7.26	7.44
Total Hardness as CaCO <sub>3</sub>	Mg/Li	544	536	592	524
Total Alkalinity	Mg/Li	288	312	296	260
Total Dissolved Solids	Mg/Li	1856	1872	1896	1868
Sulphate as SO <sub>4</sub>	Mg/Li	207.3	266.8	186.2	174.3
Nitrates as NO <sub>3</sub>	Mg/Li	7.9	7.4	8.2	6.9
Chloride as Cl	Mg/Li	830	815	810	775

**Ambient Air Quality Report with in Core and Buffer Zone of Gagrana Limestone  
Mines, Gagrana Date of Monitoring :17.05.2022 - 18.05.2022**

S. No.	Location of Monitoring Station	SPM µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>X</sub> µg/m <sup>3</sup>
<b>Core Zone :</b>						
1	Mangi Ki Mangri	327.07	32.11	62.71	9.47	11.73
2	Near Anicut (Banddha)	348.65	28.08	57.79	10.66	12.89
3	Mine Working Pit (Current)	364.26	34.76	70.52	10.49	15.17
4	Mine Woprking Block -A	398.96	37.95	73.30	12.71	15.78
5	Bitan Village	300.4	29.32	57.16	9.16	11.07
6	Basni Seja Village	328.15	28.76	57.13	11.69	14.64
7	Gagrana Village	350.73	32.98	37.47	13.79	14.36
8	Ghantiya Village	342.05	35.22	73.38	8.81	10.87

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

Year	No. of sapling Planted	Rate of Survival %	species
2017-18	300	51	Neem, Karanj, Subabool, Peepal ,Bad, Amwala, Jal, Jangal Jalebi Karanj etc.
2018-19	250	51	
2019-20	250	50	
2020-21	250	55	
2021-22	250	63	
2022-23	250	61	

June-23