

**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 2021-2022 )	45485.32 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 : 19.05.2022**

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		7.20	7.16	7.18	7.24
Total Hardness as CaCO <sub>3</sub>	Mg/Li	504.0	446.0	488.0	448.0
Total Alkalinity	Mg/Li	220.0	274.0	266.0	214.0
Total Dissolved Solids	Mg/Li	1836.0	1728.0	1884.0	1686.0
Sulphate as SO <sub>4</sub>	Mg/Li	142.6	236.5	142.0	162.3
Nitrates as NO <sub>3</sub>	Mg/Li	6.10	4.60	8.50	5.70
Chloride as Cl	Mg/Li	764.0	746.0	774.0	752.0

**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	373.84	37.82	78.29	11.27	17.56
2	Near Anicut (Banddha)	330.23	35.15	69.33	11.88	17.49
3	Mine Working Pit (Current)	355.38	43.93	74.85	10.89	15.93
4	Mine Woprking Block -A	396.38	47.13	82.14	12.73	18.53
5	Bitan Village	344.93	38.14	75.08	10.36	15.74
6	Basni Seja Village	378.95	37.89	73.27	10.96	14.08
7	Gagrana Village	333.37	44.91	78.5	12.04	17.71
8	Ghantiya Village	336.67	42.86	77.60	10.28	16.39

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

Year	No. of sapling Planted	Rate of Survival %	species
2016-17	150	53	Neem, Karanj, Subabool, Peepal ,Bad, Amwala, Jal, Jangal Jalebi Karanj etc.
2017-18	300	51	
2018-19	250	51	
2019-20	250	50	
2020-21	250	55	
2021-22	250	63	

June-22