

**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 2020-2021 )	19264.59 Tons (up to 31.12.2020)
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 : 11.12.2020**

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		7.55	7.30	7.10	7.17
Total Hardness as CaCO <sub>3</sub>	Mg/Li	540	5.28	504	492
Total Alkalinity	Mg/Li	270	308	272	240
Total Dissolved Solids	Mg/Li	1812	1778	1870	1802
Sulphate as SO <sub>4</sub>	Mg/Li	197.9	261.2	171.5	187.7
Nitrates as NO <sub>3</sub>	Mg/Li	7.2	5.0	7.70	5.4
Chloride as Cl	Mg/Li	835	790	780	745

**Ambient Air Quality Report with in Core and Buffer Zone of Gagrana Limestone  
Mines, Gagrana Date of Monitoring :11.12.2020 - 12.12.2020**

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>
1	<b>Core Zone :</b>					
2	Mangi Ki Mangri	376	39.59	73.03	11.13	15.08
3	Near Anicut (Banddha)	341.58	37.98	71.96	12.04	15.74
4	Mine Working Pit (Current)	348.53	39.08	77.09	10.32	15.28
	Mine Woprking Block -A	386.17	42.87	78.71	10.32	14.89
	<b>Buffer Zone :</b>					
5	Bitan Village	333.66	39.08	77.24	10.65	14.89
6	Basni Seja Village	372.58	42.51	75.28	10.23	14.30
7	Gagrana Village	331.50	40.18	72.55	9.85	15.22
8	Ghantiya Village	342.16	42.87	77.48	9.65	16.07

**Details of Plantation of last 3-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 etc.
2017-18	300	51	
2018-19	250	51	
2019-20	250	50	
2020-21	250	Under Progress	