

S.C.M.S School of Engineering and Technology

Civil Engineering Department

INDUSTRY VISIT REPORT

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|--------------------------------|---|
| Name Of The Industry | Gloria Granites Kuzhiyampadam Manjapra P.O Angamaly, Kerala 683581 |
| Day of visit | 1 |
| Time | 5:30 pm |
| Department | Civil Engineering |
| Semester | 6 |
| No. of students attended visit | 47 |
| Faculties | Anvin Sebastian Praseeja A.V |

Summary : Rock Crushers

The purpose of the visit was to observe and study of the stone crushers. Rock Crushers are almost universally used for preparing run-of-mine ore for further crushing in secondary machines. They all act upon the principle of approaching and receding jaws, which crushes the rock. In small plants they are fed from a chute by hand or shovel, but in larger plants they are usually fed from a belt or pan conveyor. An attendant is usually necessary, in small plants, to feed the ore and to aid the machine by crushing up the larger pieces of ore so that they may enter the mouth of the crusher; in large plants, to stop or start the feed in case of accident. For coarse breaking, two types of machines are standard: (1) the jaw crushers and (2) the gyratory crushers. The jaw crushers is an intermittent machine, that is, crushing is done through a fraction of the total cycle of jaw movement; whereas the gyratory crushers is a continuous machine, exerting an equivalent crushing action at all points of the operating cycle. In large capacity crushing plants, the tendency seems to be to use gyratory crushers, whereas in smaller plants it may be advantageous to use jaw crushers. Except for ores which are soft, muddy, or talcose and tend to clog the crusher, water is seldom fed to a rock crushers. It may be used to lay the dust.

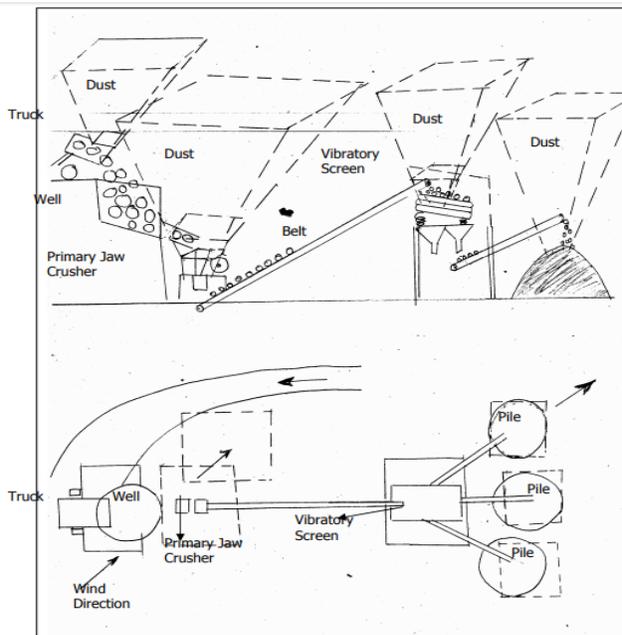


Fig.1

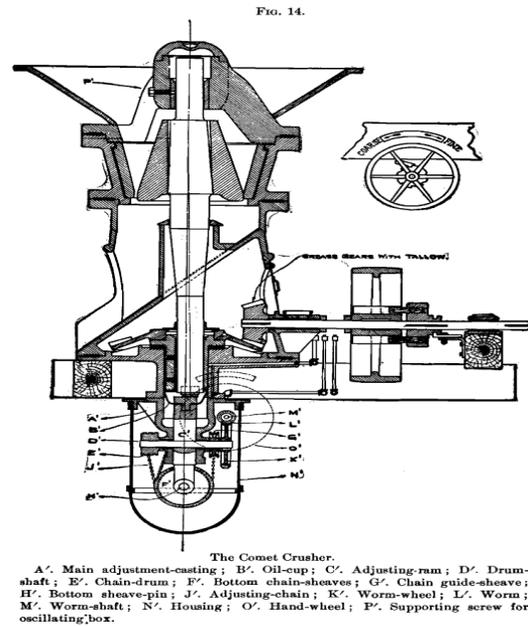


Fig.2

Fig 1 & 2 : The parts and working principle of stone crushers.

Industry visited for :

We S6 Civil engineering students of S.C.M.S School of Engineering and Technology visited GLORIA GRANITES on 23th of March. There were 47 students accompanied by 2 faculties, Anvin Sebastian and Praseeja A.V. We reached there by 5:00 PM. We were welcomed by the owner V. Joy and his assistant Amal M. From there we divided into 2 groups one lead by Amal M and the other by Anand C, an employee of the factory. From there we were given a detour towards the full factory giving us the precautions to be taken , one of which was to cover our nose and mouth with towel due to extremity of dust in the work place. They gave us the complete information about the working of the industry. First, they showed us how a giant rock is crushed and how it is converted into different fraction of aggregates of different sieve size. They taught us about the marketing of the products and the uses in the field of construction and advantages of the use of manufactured sand (M sand) over river sand.



Fig.3



Fig.4



Fig.5



Fig.6

Fig.3-6 : shows working images of the factory and students involvement.