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USE OF QUARRY DUST FOR SOIL STABILIZATION

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ABSTRACT:- Soil stabilization occupies an important role in Civil Engineering works. Soil stabilization is the process of increasing strength and bearing capacity of soil either by mechanical or chemical methods. The present research is carried out to study the effect of quarry dust on Maximum Dry Density, Optimum Moisture Content, and California Bearing Ratio of the subgrade soil. A study is carried out to check the improvements in the properties of locally available soil with addition of quarry dust in different percentages. An experimental program consisting of atterberg's limit, compaction and california bearing ratio tests were carried out in the laboratory on unstabilized as well as stabilized subgrade soil, percentage of quarry dust by dry weight of soil was varied from 10%, 20% and 30%. It is revealed from the tests that california bearing ratio of stabilized subgrade soil increased due to addition of quarry dust.

Keywords— Soil, Quarry Dust, Optimum Moisture Content, Maximum Dry Density, California bearing ratio.

CHALLENGES IN THE PLANNING OF CITIES IN INDIA

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ABSTRACT:- The paper aims to highlight the challenges associated with planning of a city in India. India is dealing with the rapidly growing population and huge migration from nearby towns to the cities. Hence the rate of population growth in cities is not as per the natural growth pattern that has invited enormous types of problems. Thus, environmental challenges, administrative problems including demographic problems and socio-economic problems can be catered with proper planning.

Keywords— Urban Planning, Urbanization, Master Plan, Infrastructure, Land Use Pattern.