

## IMPACT OF CEMENT FACTORY OPERATIONS ON RESIDENTS: A CASE STUDY OF BOMMANABUDNI VILLAGE OF BAGALKOT DISTRICT, KARNATAKA STATE.

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### Abstract

Cement industries is one of the oldest and most significant industries in Indian economy as it provides the basic building material. However, it like other industries has its major share in environmental pollution. The particulate matters of the dust exhausted from the cement plants when released to the air create considerable pollution. As such, various stages of cement manufacturing have their own negative impact on environment. It is common to observe that the neighbouring communities are suffering from respiratory problems, skin infections and eye irritation etc. Hence there is need to address the problem of cement dust and to create awareness among the neighbouring communities. Thus the present study makes an attempt to assess the impact of cement dust exposor on residents of Bommanabudni village where the cement factory is located. To collect information a questionnaire based survey was conducted in the village and the data was analysed with help of simple statistical method like percentages. An effort is made to suggest some measures to safeguard the health cement dust exposed communities.

**Keywords:** Cement dust, Pollution, Respiratory problem, Dust exposure, Community.

### Introduction

Cement production is mainly concerned with dusty operation as it involves several hot dry powders. All these operation emit greenhouse gasses into surrounding which are the major causes of health hazards. Cement manufacture causes environmental impacts at all stages of its production. These include emission of air borne pollutants in the form of dust, gasses, noise, and vibration when operating machinery and during blasting in quarries (Merenu IA, Mojiminiyi FBO, Omokhodion F, Ibrahim MTO, 2015). Several studies have demonstrated linkage between cement dust exposor, chronic impairment of lung function and respiratory symptoms in human population. The cement dust irritates the skin, the mucous membrane of the eyes and respiratory system. Its deposition in the respiratory tract causes a basic reaction leading to increase in the pH values that irritates the exposed mucous membranes (Zelegeet al.2010). Although, many laws were enacted by Indian government to regulate the cement manufacturing units, plant operators are exploiting the deficiency in the monitoring of environmental performance. Thus, the neighbouring communities are becoming victims for the negative impacts of cement manufacturing.

### Methodology

The present study encompasses empirical investigation, observation and interview of respondents of the study space for the assessment of impact of cement dust exposor on host communities. Thus, primary and secondary information sources additionally as

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