



Noise Pollution in Construction Sites

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ABSTRACT

Noise pollution is one of the most severe problems that may damage human life. Noise pollution affects both human health and activities, especially for people who may more involve in activities like constructing. In developing countries like Iran, we need some scientific methods to comfort this issue.

By have a good understanding of the human ear structure, noise function, conventional techniques in noise controlling, and valid standards in the world we may handle this matter.

This study was carried out based on some literature reviews and standards regulations.

Keywords: Noise Pollution, Construction Sites, Noise

1. INTRODUCTION

Noise is considered to be annoying sound and sound can be regarded as undesirable due to amplitude or volume of loudness, a category of noise, about the day, or any modality making resonance or obscene. Noise annoyance and similar problems bring on noise pollutant through the process of building assemblage and have come over exponentially significant. This hassle can affect the workers, as well as the residencies. Construction sites are a pretty familiar source of noise pollution. Construction and works related to demolition are mostly riotous and repeatedly take place in residential places (out of town). Construction noise is noise that arises from an activity at a construction site that includes; work due to demolition, work related to strategy, and building renewal work. The sound from the construction of highways, city streets, and buildings is a significant contributor to the urban scene. Construction noise contributors include pneumatic equipment, air compressors, machine mounted percussion drills, loaders, trucks and breaking materials.

The construction entrepreneurs is an essential contributor to pollution, accountable for effluent particulates, and more number of noisy gripes every year. Although constructing a building also pollutes the ground, air, and water. Construction sites bring out a lot of noise, mainly from heavy equipment and machinery used in the construction field. Over sound is virtually annoyance and confound to the humanity, but can lead to loss of hearing, hypertension, and irregular heartbeat.

In this article we want to talk about a step by step process from human being ear structure and the relation between this structure and noises in construction sites. [1]

2. Hearing Fuction

Sound waves travel through the outer ear, are modulated by the middle ear, and are transmitted to the vestibulocochlear nerve in the inner ear. This nerve transmits information to the temporal lobe of the brain, where it is registered as sound.