

MEASUREMENT OF NOISE POLLUTION IN VARIOUS PARKS OF LUCKNOW CITY

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ABSTRACT

The present work deals with the measurement of Noise pollution at Arvindo park and Janeshwar Misra park of Lucknow on end of the week (Saturday and Sunday). In the present examination the Noise level were estimated with the guide of SPL (Sound pressure level) sound meter alongside GPS area of the observing site. The Noise contamination was observed to be in excess of 50 dB (A) during day and 40 dB (An) in night which are the recommended standard level for Silent Zone by CPCB at the two stops under scrutiny on end of the week. The Lnp estimated for Arvindo Park was 72.8dB (A) the recreation centre had most elevated amount of commotion contamination while Lnp values for Janeshwar Misra park was 65.5 dB (A) . The explanation for abnormal state of contamination in Arvindo park was the traffic going by the recreation centre while at Janeshwar Misra park had low degree of clamour because of essence of tree ranch or around 10 meter high limit or tallness of park level was over the street level. Along these lines the higher contamination can be altogether decreased by creating green zone around the recreation centre just as structure divider (commotion obstruction) around the recreation centre..

INTRODUCTION

The word Pollution has been gotten from the Latin word 'Contamination em' (which means to debase or make messy). Contamination is a substance, the nearness of which causes contamination. The toxins contact us through the air we inhale, the water we drink, the sustenance we eat and the sound we heard . Clamour is the term given to the sound (delivered by vibration in air or other medium) which turns out to be noisy, or unpleasant, or



undesirable. Since the undesirable sound (for example clamour) absolutely delivers a few unfortunate consequences for our body wellbeing, it is named as a natural poison. The Air (Prevention and Control of Pollution) Act 1981 included clamour as one of the air contaminations. So commotion contamination might be characterized as undesirable sound, which gets discarded into the earth without checking its unfavourable impact on living being.

Sources of noise: The anthropogenic exercises chiefly the advancement of vehicle and the urbanization and industry are the wellspring of starting point of commotion. The open air clamour sources overwhelming worldwide are chiefly development and transportation frameworks, including air ship commotion, rail commotion and engine vehicle commotion (Noise Pollution and Abatement Act of 1972). Boss reasons for commotion produced from traffic are the fumes frameworks and engines of autos.

Transportation Noise: The Chief wellspring of urban and network commotion are essentially engine vehicles and flying machines. Railroad hardware has a high clamour yield however realize fewer disturbances than either air traffic or street traffic.

Urban Noise: The urban commotion dispersion examples are very unpredictable and vary from city to city; yet, by and large wellspring of birthplace stays normal. A clamour base exists twenty-four hours out of every day, comprising of commotion from family unit machines, warming and ventilating, normal environmental clamours, and others low level commotions. This clamour base is as a rule of low, between 30 to 35 dB.

Explicit Noise Sources: Specific cases comprise of commotion sources which are described by either serious or broad or unavoidable nature of clamour. Building pulverization and development work require incredible blows and enormous powers and are regularly done in clogged urban areas.

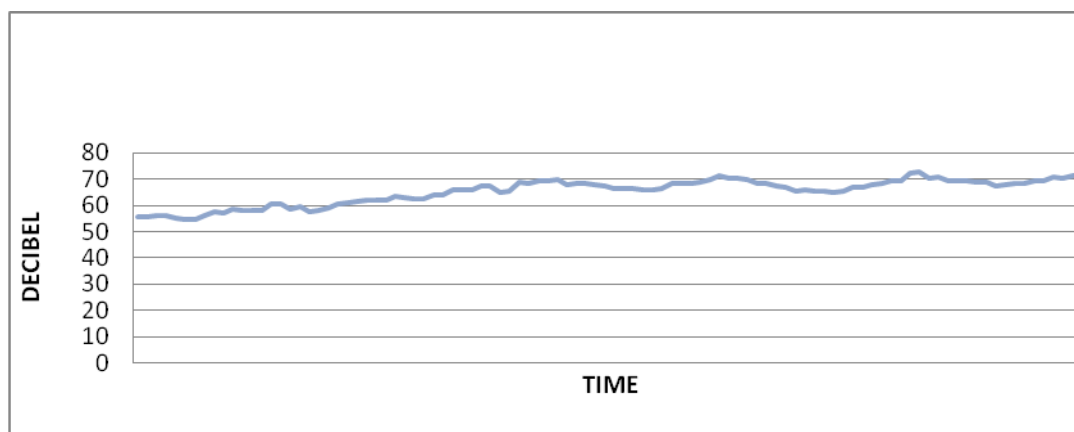
Quietness Zone will be zone having schools, universities, banks, parks and medical clinics.

Material and Methods

The Noise Pollution level was observed at different parks of Lucknow City on the end of the week (Saturday and Sunday).The time term taken for concentrate between 7am to 11am (crest period) in morning and from 4 pm to 8 pm during night. For this reason 2 areas containing Silent zone (viz. Arvindo park and Janeshwar Misra park) chose inside the city. The clamour levels were checked with the guide of SPL (Sound weight level) sound meter. The principles of clamour level were contrasted and that of the gauges endorsed in Environmental Protection Rules, 1986 and benchmarks of CPCB4.According to suggested commotion measures, as far as possible for clamour level in Silence Zone during day is 50dB and in night is 40dB .

Results and Discussion

The clamour levels were observed and estimated with the guide of SPL (Sound pressure level) sound meter. The degree of Noise Pollution during present investigation of parks was seen to be higher when contrasted and as far as possible. The sound levels announced at the two stops in Lucknow City which goes under the quiet zone are demonstrated as



follows:

Figure 1: Noise level in Arvindo park

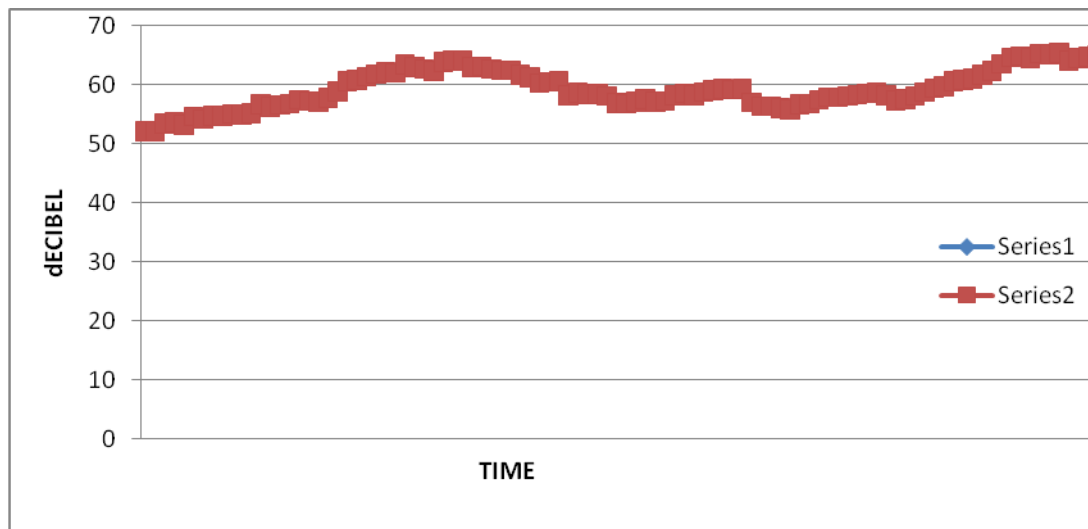


Figure 2:Noise level in Janeshwar Misra park

Recommendations:

If there should arise an occurrence of Silent Zone (particularly stops) the volume of traffic ought to be diminished by redirecting the traffic going by the Silent Zone and utilization of horn ought to be limited. There ought to be a lot of trees in open space around the Silence Zone.

End From the present Investigation it was presumed that Noise level of parks is high according to Ambient Noise Standards. From the information it was additionally inferred that the Lnp was observed to be high at Arvindo park when contrasted with Janeshwar Misra park.

So the Arvindo park require Noise hindrances like divider around the recreation centre or create green zone by planting trees.



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