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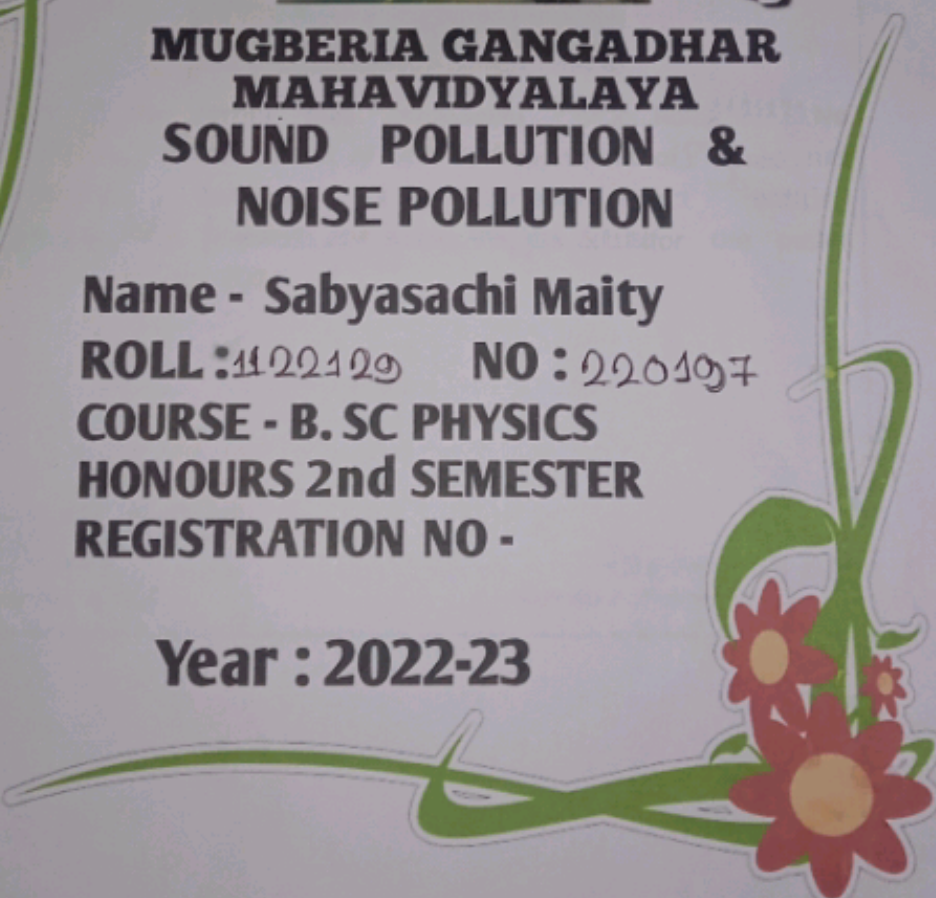
MUGBERIA GANGADHAR MAHAVIDYALAYA SOUND POLLUTION & NOISE POLLUTION

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COURSE - B. SC PHYSICS
HONOURS 2nd SEMESTER
REGISTRATION NO -

Year : 2022-23



Mugberia Gangadhar Mahavidyalaya

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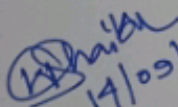
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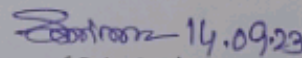
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Certificate of Completion

This is to certify that Sabyasachi Maity Roll. 1121121 No. 220197.....a UG student of SEM-II, Department of Physics has successfully completed a dissertation/project entitled Effect of noise pollution and green muffler scheme for the paper AECC 2 in the year 2023.


14/09/23
Signature of HOD


14.09.23
Signature of Principal

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Date : 29:08:23 .

Sabyasachi Maity.
2nd Sem physics (H)

Introduction :-

Noise pollution, often referred to as environmental noise, is the presence of excessive or disruptive noise in the environment that can have harmful effects on human health and the ecosystem. The sources of noise pollution are diverse and include traffic, industrial activities, construction, loud music, and more.

Prolonged exposure to high levels of noise can lead to a range of negative consequences for individuals and communities, including physical, psychological, and social impacts. To combat the growing problem of noise pollution, innovative initiatives like the "Green Mufflers Scheme" have been introduced to mitigate the adverse effects of noise pollution and promote a healthier living environment.



"Effects of Noise Pollution"

1. Health Implications :-

Prolonged exposure to high levels of noise can lead to various health issues, including hearing impairment, cardiovascular problems, sleep disturbances and stress-related ailments. Noise-induced hearing loss is a significant concern, particularly in urban areas with high levels of traffic and industrial activities.

2. Mental Health :-

Noise pollution can have adverse effects on mental well-being. It can contribute to increased levels of anxiety, irritability, and even depression. Continuous exposure to noise can lead to reduced concentration and cognitive impairment, affecting the overall quality of life.



3. Interference with Communication:-

Excessive noise can disrupt communication, leading to misunderstandings and reduced social interactions. In schools and workplace, noise pollution can hinder the learning and productivity of individuals, impacting their performance and efficiency.

4. Impact on Wildlife:-

Noise pollution also affects the animal kingdom. It can disrupt animal communication, navigation, and mating behaviors. Birds, marine mammals, and others face challenges in finding food, identifying predators, and maintaining their natural habitats.



5. Economic Costs:-

Noise pollution can result in economic losses due to decreased property values and reduced tourism opportunities in affected areas. Additionally, health issues caused or exacerbated by noise pollution.

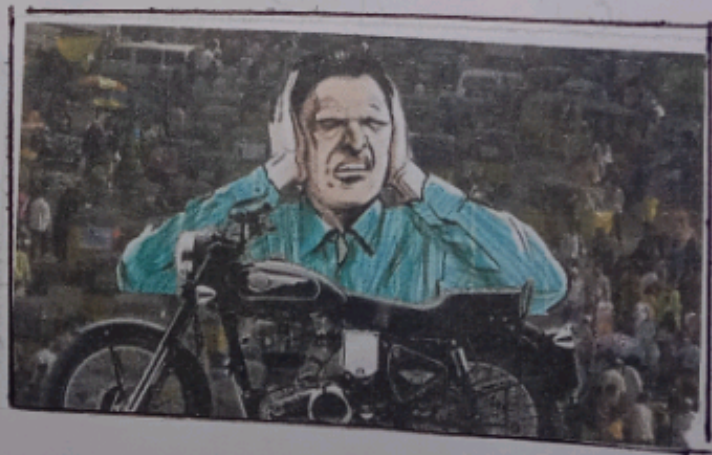
The Green Mufflers Scheme

The Green Mufflers Scheme is a comprehensive and eco-friendly approach to combat noise pollution.

It involves multiple strategies to reduce noise levels and its impact on the environment and public health.

10 Vehicle Exhaust Modifications:-

The scheme encourages the use of specially designed "Green mufflers" or exhaust systems that reduce noise emissions from vehicles. These mufflers are designed to muffle the sound without significantly affecting the engine's performance.



2. Promotion of Electric Vehicles:-

The Green Muffler scheme actively promotes the adoption of electric vehicles (EVs) as they are inherently quieter than traditional internal combustion engines. By encouraging the purchase and use of EVs, the scheme aims to reduce overall traffic noise levels.

3. Noise Barrier Installation :-

Implementation of noise barriers along highways and busy roads helps to mitigate the spread of noise to nearby residential and commercial areas. These barriers act as physical obstacles to block and absorb sound, minimizing its impact on the surrounding environment.



4. Public Awareness and Education:-

The Green Mufflers Scheme includes educational campaigns to raise awareness about the harmful effects of noise pollution and the importance of adopting quieter practices in daily life. This can lead to behavioral changes such as reduced use of loud equipment and responsible usage of personal audio devices.

5. Urban Planning and Zoning:-

The scheme encourages Urban Planning and policymakers to consider noise pollution when designing new infrastructure and residential areas. By strategically zoning noise and quiet more peaceful and livable urban environments.



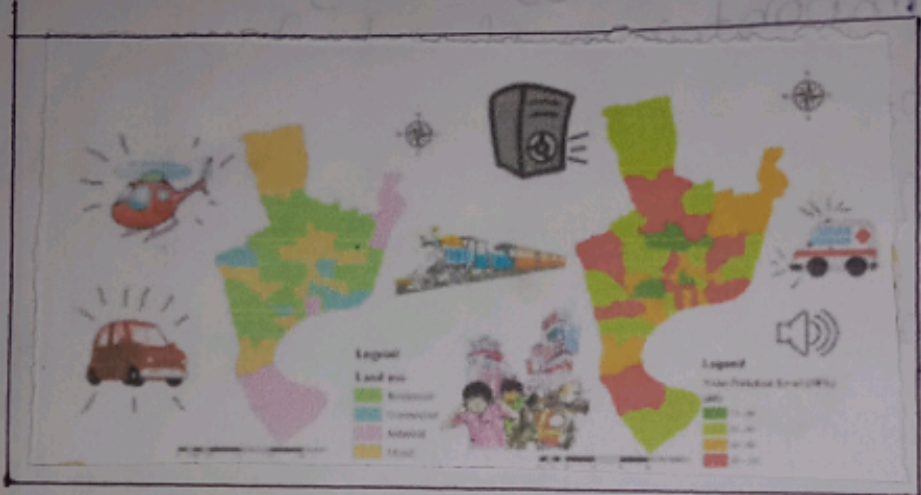
6. Enforcement of Noise

Regulations: - The Green Muffler Scheme works in tandem with existing noise regulations to ensure that noise-emitting sources, such as construction sites and Industrial facilities, adhere to permissible noise limits.

“ Conclusion ”

Noise Pollution is a pressing environmental issue that negatively impacts human health, wildlife, etc. The Green Muffler scheme represents a forward-thinking and eco-friendly approach to combatting noise pollution. By promoting the use of Green Mufflers, Evs, installing noise barriers, the scheme seeks to create environments. Through comprehensive strategies and active community involvement, the green Muffler scheme serves as a model for sustainable noise reductions, fostering a better quality of life for current and future generations.

The Green Muffin Company
 educational company to raise awareness
 about the harmful effects of noise
 and the importance of...



on planning and zoning
 The government encourages
 planning and policymakers to consider
 noise when designing new
 urban and residential areas.
 carefully zoning new and old
 areas.

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