



# Vidyasagar University



## MUGBERIA GANGADHAR MAHAVIDYALAYA SOUND POLLUTION & NOISE POLLUTION

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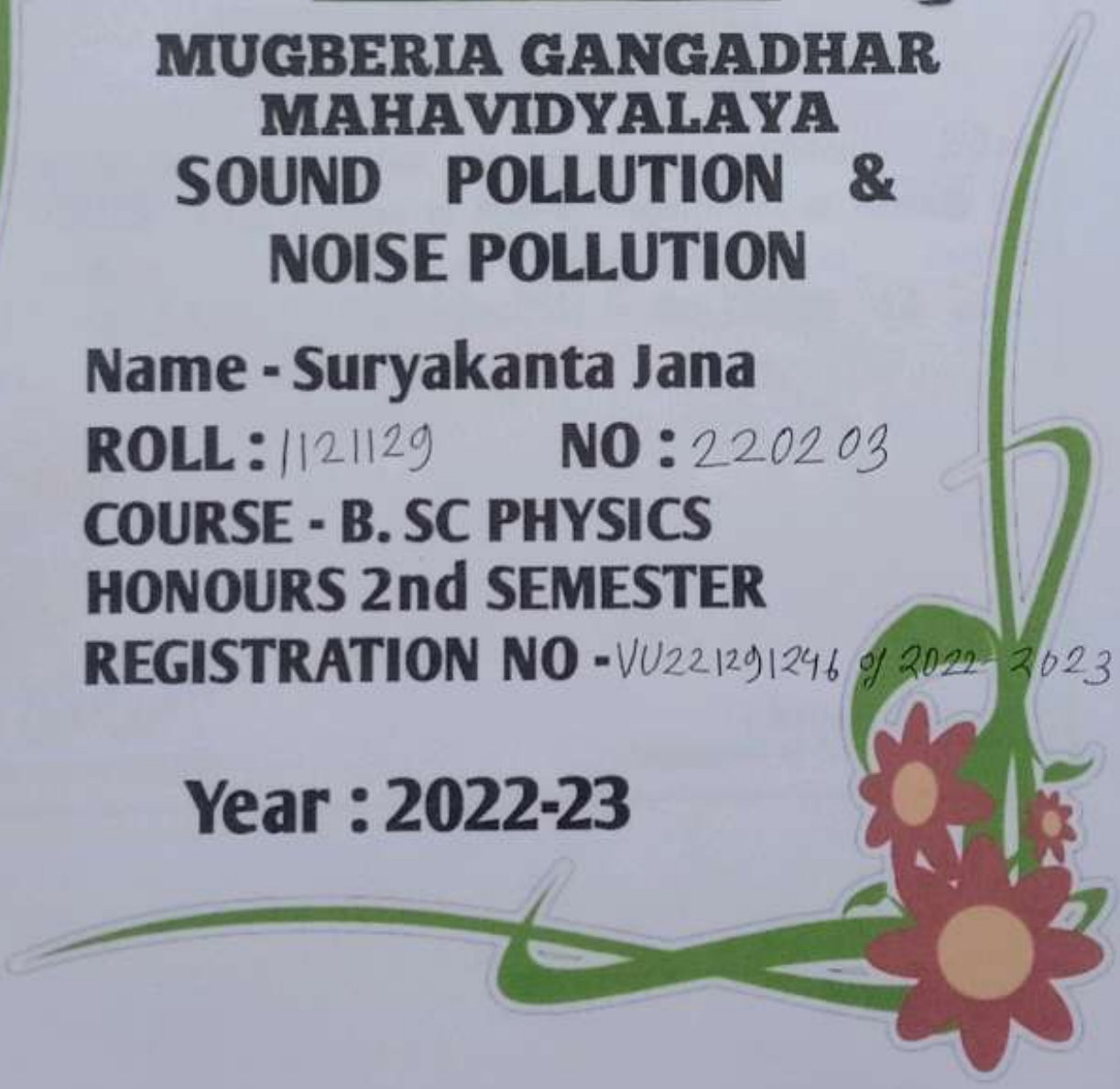
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# Mugberia Gangadhar Mahavidyalaya

Bhupatinagar :: Purba Medinipur

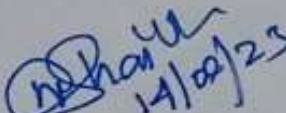
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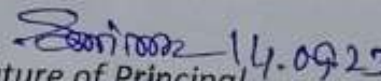
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## Certificate of Completion

This is to certify that Suryakanta Jana Roll No. 1121120 No. 220203 a UG student of SEM-II, Department of Physics has successfully completed a dissertation/project entitled Effects of Noise Pollution and the Green Muffler scheme for the paper AECC 2 in the year 2023.

  
Signature of HOD  
14/09/23

  
Signature of Principal  
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*Suryakanta Jana.*  
**2nd Sem physics (H)**

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# Effects of Noise pollution and the Green Muffler Scheme

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 include traffic 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 problems of noise pollution, innovative initiatives like the "Green Muffler 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 disturbance, and

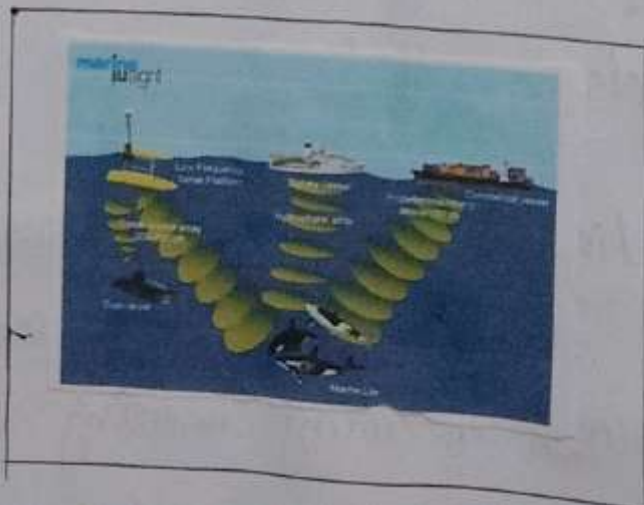


Stress-related ailments. Noise-induced hearing loss is a significant concern, particularly in urban areas with high levels of traffic and industrial activities.

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 misunderstanding and reduced social interaction. In school and work places, 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 terrestrial animals may 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, healthcare costs may rise due to the health issue caused or exacerbated by noise pollution.

\* The Green Muffler Scheme \*

The Green Muffler Schemes is a comprehensive and eco-friendly approach to combat noise pollution. It involves multiple strategies to reduced noise levels and its impact on the environment and public health.

1. 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:-

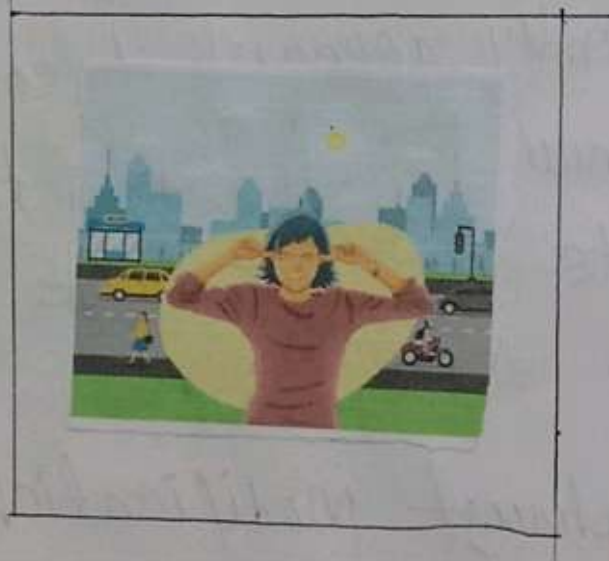
The Green Muffler Scheme actively promotes the adoption of electric vehicles (EVs) as they are inherently quieter than traditional internal combustion engine vehicles. By incentivizing the purchase and use of EVs, the scheme aims to reduce overall traffic noise levels.

## 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 impact on the surrounding environment.

## 4. Public Awareness and Education:-

The Green Muffler 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



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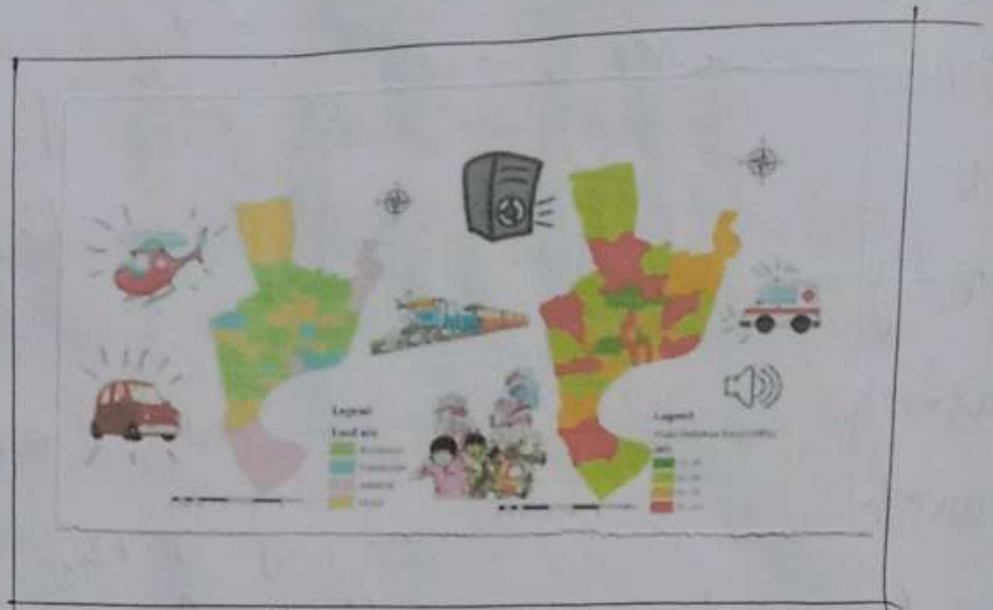
This can lead to behavioral changes, such as reduced use of loud equipment and responsible usage of personal audio devices.

### 5. Urban planning and zoning :-

The scheme encourages urban planning policy makers to consider noise pollution when designing new infrastructure and residential areas. By strategically zoning noisy and quiet areas, the scheme aims to create, the scheme aims to create 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 :-

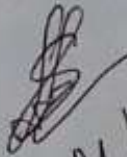
Noise pollution is a pressing environmental issue that negatively impacts human health, wildlife, and the overall well-being of communities. The Green Muffler scheme represents a forward thinking and eco-friendly approach to combatting noise pollution. By promoting the use of green mufflers, encouraging electrical vehicle adoption, installing noise barriers, and raising public awareness, the scheme seeks to create quieter and healthier living environments. Through comprehensive strategies and active community involvement, the Green Muffler scheme serves as a model for sustainable noise reduction, fostering a better quality of life for current and future generations.





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